PHASE II ENVIRONMENTAL SITE INVESTIGATION

for

SANDS NEW YORK
1255 Hempstead Turnpike
Uniondale, New York

Prepared for:

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1.0 INTRODUCTION

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) prepared this Phase II Environmental Site Investigation (ESI) report on behalf of Las Vegas Sands Corp for Project Maximus at 1255 Hempstead Turnpike in Uniondale, New York (site).

This Phase II ESI investigated the recognized environmental conditions (REC) identified in a May 12, 2023 Phase I Environmental Site Assessment (ESA) prepared by Langan.

This Phase II ESI, completed between July 19 and 21, 2023, included a geophysical survey, advancement of soil borings, installation of temporary groundwater monitoring wells and soil vapor probes, and laboratory analysis of soil, groundwater, and soil vapor samples.

This report is organized in the following sections:

- Section 2.0 Background: Describes the site background
- Section 3.0 Field Investigation: Presents the Phase II ESI methodology
- Section 4.0 Observations and Results: Presents the findings of the Phase II ESI
- Section 5.0 Conclusions: Presents conclusions based on the findings
- Section 6.0 Limitations: Presents the limitations of this report

2.0 BACKGROUND

2.1 Site Location and Description

The site located at 1255 Hempstead Turnpike in Uniondale, New York is identified on the Nassau County Tax Map as Section 44, Block F, Lots 351, 411, 412 and 415. The about 71.5-acre site is developed with a sports and entertainment arena surrounded by an exterior plaza and asphalt parking lots.

The site is bounded by Charles Lindbergh Boulevard and Nassau Energy Corporation to the north; the Long Island Marriott hotel and associated parking lots, followed by James Doolittle Boulevard to the east; Memorial Sloan Kettering Hospital and Hempstead Turnpike to the south; and Earle Ovington Boulevard to the west. A Site Location Map is included as **Figure 1**.

According to the United States Geological Survey (USGS) Freeport Quadrangle 7.5-minute Series Topographic Map, the elevation of the site is about 78 feet above mean sea level (msl), and the surrounding area slopes gradually to the south-southeast. The site is within a suburban area characterized by commercial and residential buildings, private and public institutions, and preserved land.

2.2 Recognized Environmental Conditions

Langan's May 12, 2023 Phase I ESA identified the following RECs associated with the site:

REC 1: Historical Use of the Site

The site and several adjoining and surrounding properties were occupied by Mitchel Air Force Base from the 1910s through the mid-1960s. Use prior to 1910 also included military facilities dating to the Revolutionary War. According to a December 2009 Site Inspection Report for Mitchel Field, prepared for the Army Corps of Engineers (USACE), the northeastern part of the site is within the former Munitions Response Site (MRS 2) and the southwestern corner of the site is within the former Machine Gun Range (MRS 5).

Soil samples collected during a 2009 investigation by the USACE found iron above the United States Environmental Protection Agency (USEPA) Residential Direct Contact Soil Screening Level and lead above the USEPA Interim Ecological Screening Level; however, no samples were collected from the site.

Sewage disposal ponds affiliated with the base were present in the southwestern part of the site from at least 1955 to the mid-1970s. The most recent publicly available information indicates that the site is classified by New York State Department of Environmental Conservation (NYSDEC) as a "Class P" Inactive Hazardous Waste Disposal Site (SHWS) site, but the NYSDEC has yet to complete an overall environmental assessment of the former airfield.

Undocumented spills or releases of solvents, chemicals, or other hazardous substances associated with this historical military use may have adversely affected soil, groundwater, and soil vapor on the site.

REC 2: Historical Petroleum Bulk Storage at the Site

According to Nassau County Fire Commission's – Hazardous Materials Division Department records, a 1,000-gallon diesel fuel underground storage tank (UST) was installed at the site on January 1, 1973 and abandoned on December 8, 1987 after failing a tank tightness test. A second 1,000-gallon UST was installed in September 1987. Municipal records list both USTs as having been removed; however, UST closure documentation was not provided to Langan. The absence of UST location information and closure documents is considered a REC.

REC 3: Active Hydraulic Oil Release

During the site reconnaissance on February 2, 2023, Langan was advised of an on-going hydraulic-oil leak in one of the elevator pits associated with a freight elevator. Pooled hydraulic oil was observed in the elevator pit. According to Vito Corbo, chief engineer for Nassau Veterans Memorial Coliseum, the release has been ongoing; oil recovery and leak repairs are pending. This release may constitute a reportable condition, and may have adversely affected soil, groundwater, and/or soil vapor on the site.

REC 4: Current and Historical Use of the Adjoining and Surrounding Properties

The site is adjoined by an active gasoline service station (1983 to present) to the south and the Nassau Energy Corporation (1960s to present) to the north. Multiple underground storage tanks (UST) and New York spills listings are associated with the gas station; however, spills have been closed by the NYSDEC. The Nassau Energy Corporation is also identified under the facility names Suez Energy Generation, Trigen Nassau Energy, and Trigen Cogeneration Plant. The facility is listed in the Resource Conservation and Recovery Act (RCRA) generator databases for generation of corrosive-, silver- and halogenated-hazardous wastes. The facility houses aboveground storage tanks (AST) containing solvents, acids and waste oil. Undocumented spills or releases of solvents, chemicals, or other hazardous substances associated with these current and historical operations may have adversely affected groundwater, and/or soil vapor on the site.

The Purex-Mitchell Field site, about 5,061 feet northwest of the site (hydraulically upgradient), operated as an industrial facility for chemical distribution from 1955 to 1977. Information on the facility indicates that a chlorinated solvent plume in the vicinity of the site is related to former chemical distribution operations. Remediation to date has included contaminant recovery wells, air stripping, and a slurry wall constructed to restrict migration of groundwater contaminants. The results of a 1992 soil investigation indicated that soil clean-up objectives had been met; however, groundwater remediation is ongoing and soil vapor has not been evaluated. Based on proximity, contaminant extents and solubility, migration of contaminants in groundwater, and absence of

information about impacts to soil vapor, this historical operation may have adversely affected groundwater, and soil vapor on the site.

REC-5: Known Area-Wide Groundwater Contamination

The Old Roosevelt Field Contaminated Groundwater Area (USEPA ID No. NYSFN0204234) and New Cassel/Hicksville Groundwater Contamination (USEPA ID No. NY0001095363) are two National Priority List (NPL) sites over 4,000 feet north and upgradient of the site. Operations at the two sites include aviation activities from (1911 to 1955) and various industrial operations (time unknown). Both sites are considered to have contributed to a chlorinated solvent groundwater plume that has impacted public supply wells in the area of the site. Contaminants of concern include carbon tetrachloride, 1,1-dichloroethene (1,1-DCE), tetrachloroethene (PCE), and trichloroethene (TCE). The exact source of the contamination is unknown, and according to the database entry, the USEPA is considering various alternatives for remediation. Documented chlorinated solvent impacts to groundwater in the vicinity of the site is considered a REC.

The Phase I ESA also identified business environmental risks related to the following:

- Historic fill material at the site, which doesn't trigger a reporting obligation, but is often associated with metal and semi-volatile organic compound (SVOC) contaminants
- Possible military munitions
- State superfund "P" listing of the larger Mitchell Field airbase site

The Phase I ESA is provided as **Appendix A**.

2.3 Geology

According to the U.S. Geologic Survey interactive map (https://mrdata.usgs.gov/geology/state/map-us.html), the site is within the Matawan Group, Monmouth Group and Magothy Formation, which consist of coastal deposits composed of coarse-detrital gravel and sands to fine-detrital glauconitic sandy clays deposited during the Upper Cretaceous. Geological surface features (e.g., rock outcroppings) were not observed on the site.

2.4 Hydrogeology

Groundwater flow is typically topographically influenced because shallow groundwater tends to originate in areas of topographic highs and flow toward areas of topographic lows, such as rivers, stream valleys, ponds, and wetlands. A broader, interconnected hydrogeologic network often governs groundwater flow at depth or in the bedrock aquifer. Groundwater depth and flow direction are also subject to hydrogeologic and anthropogenic variables such as precipitation, evaporation, extent of vegetative cover, and coverage by impervious surfaces. Other factors influencing groundwater include depth to bedrock, artificial fill, and variability in local geology and groundwater sources or sinks.

According to the USGS Long Island Depth to Water Viewer (https://ny.water.usgs.gov/maps/li-dtw/), groundwater is estimated to be about 30 feet below ground surface (bgs) and is inferred to flow south-southeast toward East Meadow Brook. During the Phase II ESI, Langan observed groundwater between about 26 and 32 feet bgs. According to the current Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) (September 11, 2009) (Map No. 36059C0227G), the site is within Zone X: areas determined to be outside the 0.2% annual chance floodplain.

3.0 FIELD INVESTIGATION

The Phase II ESI included a geophysical survey, advancement of 11 soil borings, and installation of four temporary groundwater monitoring wells and five soil vapor sampling points across the site. Samples of soil, groundwater, soil vapor, and ambient air were collected for laboratory analysis. The Phase II ESI field work was completed between July 19 and 21, 2023.

Soil boring, monitoring well, and soil vapor sampling locations are shown on **Figure 2**, and a summary of samples and associated laboratory analyses is included as **Table 1**. A photograph log documenting the Phase II ESI is included as **Appendix B**.

3.1 Geophysical Survey

Prior to intrusive sampling, NOVA Geophysical Engineering (NOVA) of Douglaston, New York completed a geophysical survey of proposed sample areas on July 19, 2023. The survey included ground-penetrating radar (GPR) and electromagnetic (EM) detectors to locate potential subsurface utilities, underground storage tanks, and subsurface structures in the vicinity of proposed boring locations. A copy of the geophysical survey report is included in **Appendix C**.

3.2 Soil Investigation

Eleven soil borings (SB11 through SB21) were advanced by Lakewood Environmental Services Corp. (Lakewood) between July 19 and 21, 2023. Langan field personnel were on-site to document field observations and collect soil samples. Soil borings (SB11 through SB20) were advanced using a Geoprobe 6620 DT. Indoor boring SB21 was advanced using a Geoprobe 6610DT to depths ranging from about 15 to 40 feet below ground surface (bgs). Soil samples were collected continuously into 5-foot-long Macro-Core® sample barrels lined with dedicated acetate sleeves.

Langan visually classified the soil samples from borings for soil type, grain size, texture, and moisture content, and screened each soil sample for visual, olfactory, and instrumental evidence of a chemical or petroleum release. Instrumental screening for the presence of organic vapors was performed using a photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp. Twelve soil samples (including one duplicate sample) were collected for laboratory analysis from soil within variable intervals of material.

Samples submitted for analysis of volatile organic compounds (VOC) were collected directly from the acetate liner into laboratory-supplied TerraCore® soil samplers. The remaining sample volume was homogenized and placed in laboratory-supplied containers for additional analyses. The sample containers were labeled, placed in a laboratory-supplied cooler, and packed on ice to attempt to maintain a temperature of about 4°C. The samples were picked up and delivered by courier to Alpha Analytical, Inc. (Alpha) under standard chain-of-custody protocol. Alpha is a certified New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) laboratory in Mansfield, Massachusetts.

Soil sample analyses included:

- NYSDEC Part 375 list and Target Compound List (TCL) VOCs by USEPA method 8260
- NYSDEC Part 375 list and TCL semi-volatile organic compounds (SVOC) by USEPA method 8270
- Polychlorinated biphenyls (PCB) by USEPA method 8082
- NYSDEC Part 375 list and TCL Pesticides by USEPA method 8081
- Target Analyte List (TAL) metals (including hexavalent and trivalent chromium and cyanide) by USEPA methods 6010, 7196, 7470, 9010 and 9012.

After sample collection, Lakewood backfilled borings with non-impacted soil cuttings or No. 2 clean sand and patched each location with asphalt or concrete. Soil boring logs are included in **Appendix D**.

3.3 Groundwater Investigation

Lakewood converted four soil borings (SB11, SB14, SB16, and SB18) into temporary groundwater monitoring wells by installing 10 feet of 10-slot (0.010-inch) well screen connected to solid 1-inch-diameter PVC riser pipe. The well screens were installed from about 30 to 40 feet bgs, with connected riser pipe from the top of the screen to surface grade. The annular space around each monitoring well was backfilled with No. 2 sand to grade surface. After groundwater sample collection, the temporary monitoring wells were removed. The boreholes were filled to grade surface with clean soil cuttings and/or No. 2 sand and patched with asphalt or concrete. Monitoring-well construction logs and groundwater sampling logs are included in **Appendix E**.

Langan collected one groundwater sample from each monitoring well for laboratory analyses. One duplicate groundwater sample was collected for quality assurance and quality control (QA/QC) purposes. Monitoring wells were gauged with an oil-water interface probe to record a depth to groundwater reading and for free product. Before collecting a groundwater sample, Langan monitored groundwater-quality parameters (pH, conductivity, turbidity, dissolved oxygen, temperature, and oxidation-reduction potential) while purging the wells. Before sampling, well headspaces were screened with a PID.

For monitoring wells TMW16 and TMW18, samples were collected with a peristaltic pump and dedicated polyethylene tubing, directly from the pump effluent into laboratory-supplied containers. Because of poor flow from monitoring wells TMW11 and TMW14, groundwater quality parameters could not be monitored and samples from these locations were collected with a bailer into laboratory-supplied containers. Samples submitted for dissolved-metal analysis were filtered in the field using a 0.45-micron filter. Purged groundwater was containerized in two labeled 5-gallon high-density polyethylene (HDPE) buckets and staged on-site for future off-site disposal at a permitted facility (Section 3.5).

The sample containers were labeled, placed in a laboratory-supplied cooler, packed on ice to maintain a temperature of about 4 °C, and delivered by courier to Alpha under standard chain-of-custody protocol.

Groundwater sample analyses included:

- NYSDEC Part 375 list and TCL VOCs by USEPA method 8260
- NYSDEC Part 375 list and TCL SVOCs by USEPA method 8270
- PCBs by USEPA method 8082
- NYSDEC Part 375 list and TCL Pesticides by USEPA method 8081
- Total and dissolved TAL metals by USEPA methods 6010, 6020, 7196, and 7470

After sample collection, Lakewood removed the temporary well materials and backfilled boreholes with clean soil cuttings and/or clean sand. Boreholes were patched at grade with either asphalt or concrete.

3.4 Soil Vapor Investigation

Lakewood installed five soil vapor points (SV11, SV12, SV15, SV17, and SV18) in accordance with the New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006). Soil vapor implants were installed to about 5 feet bgs using a track-mounted Geoprobe® 6610DT drill rig. Each soil vapor collection probe consisted of a 2-inch-long Teflon vapor implant with 1/4-inch-diameter Teflon-lined polyethylene tube. The annulus around the soil vapor implant and tube was filled with a clean, coarse sand pack followed by a hydrated bentonite seal to surface grade. Hydrated bentonite was also used to create a seal around the tubing at the surface of the soil vapor point.

A helium tracer gas was used in accordance with the NYSDOH protocols to serve as QA/QC technique to document the integrity of the seal at each sampling point before and after sampling. The tracer gas was introduced into an overturned container, sealed at the ground surface with bentonite, which acted as a shroud for the vapor point and seal. Helium was measured from the sampling tube and inside the container with an MGD-2002 helium-leak detector. If the sample tube contained more than 10% of the tracer gas concentration introduced into the container, the seal was considered compromised and was enhanced or reconstructed to reduce air infiltration in the subsurface. All sample points had sufficiently tight seals.

Before collecting vapor samples, a minimum of three implant volumes (i.e., the volume of the sample probe and tube) were purged from each sample port at a rate of 0.2 liters per minute using a RAE Systems MultiRAE® Plus meter. The purged soil vapor was monitored for VOCs during purging using the MultiRAE® Plus meter.

One ambient air sample (AA02) was collected concurrently with and for the duration of the soil vapor samples. AA02 was collected 3 to 5 feet above the ground to represent the breathing zone.

Soil vapor and ambient-air samples were collected into laboratory-supplied, batch-certified clean, 6-liter Summa® canisters with flow controllers calibrated for a 2-hour sample interval. Summa® canisters were labeled and delivered by courier to Alpha under standard chain-of-custody protocol. Soil vapor and ambient-air samples were analyzed for VOCs by USEPA Method TO-15.

After sample collection, the sampling media (probes, tubes, etc.) were removed, the sample locations were backfilled to grade with clean soil cuttings, clean sand, and/or bentonite grout, and the holes were patched at grade with asphalt. Soil vapor-point construction logs and soil vapor and ambient-air sampling logs are included in **Appendix F**.

3.5 Investigation-Derived Waste Management

Langan containerized investigation-derived waste (IDW), consisting of purged groundwater into two labeled 5-gallon HDPE buckets. The buckets were staged in a secured area at the site pending transport by a licensed waste hauler for disposal at an approved facility. Groundwater analytical results indicated that there were no regulatory exceedances, except typical regional metals, which made off-site disposal unnecessary.

4.0 OBSERVATIONS AND RESULTS

4.1 Geophysical Survey

The geophysical survey identified potential utility lines on the northern and northwestern parts of the site. Geophysical anomalies indicative of USTs were not identified; however, geophysical surveys by their nature are not completely definitive and the survey was limited to clearance of boring locations. A copy of the geophysical survey report is included in **Appendix C**.

4.2 Subsurface Observations

The site is underlain by a layer of re-worked strata from grade surface to about 5 feet bgs in most borings that generally consists of medium- to fine-grained sand, with varying amounts of silt and gravel. Trace concrete was observed in the re-worked material in borings SB-13 and SB19. Fine- to medium-grained sand with fine gravel, coarse sand, and silt were observed beneath the re-worked strata. Silt layers were also encountered in boring SB-15. Bedrock was not encountered during the Phase II ESI. Soil boring logs are included in **Appendix D**. Staining, odors, or PID readings above background were not encountered. The maximum PID reading, 0.4 parts per million (ppm), was recorded in boring SB-21 adjacent to the freight elevator. This reading is associated with background and is not likely indicative of a subsurface release.

4.3 Soil Sample Results

Soil sample analytical results were compared to the NYSDEC Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) and Restricted Use Restricted-Residential (RURR) Soil Cleanup Objectives (SCOs). Ranges of compounds detected at concentrations above the SCOs are listed below.

<u>VOCs</u>

The concentration of one VOC, acetone, exceeded the UU SCO in one sample.

- Acetone: 0.19 milligrams per kilogram (mg/kg) in SB13_2-4 (UU SCO of 0.05 mg/kg; RURR SCO of 100 mg/kg)

<u>Pesticides</u>

The concentration of one pesticide, 4,4'-DDD, exceeded the UU SCO in one sample.

- 4,4'-DDD: 0.00476 mg/kg in SB13_2-4 (UU SCO of 0.0033 mg/kg; RURR SCO of 13 mg/kg)

Soil sample analytical results are shown in **Table 2**, and analytical laboratory reports are included in **Appendix G**.

4.4 Groundwater Sample Results

Groundwater sample analytical results were compared to the NYSDEC Title 6 NYCRR Part 703.5 and the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality

Standards and Guidance Values for Class GA water (collectively referred to as SGVs). Ranges of compounds detected at concentrations above the NYSDEC SGVs are listed below.

SVOCs

Two SVOCs were identified at concentrations exceeding their respective SGVs. Minimum and maximum exceeding values are summarized in the table below.

Parameter	Minimum Detected Concentration above SGV	Maximum Detected Concentration above SGV	SGV	Frequency of Detection above SGV
Benzo(a)anthracene	0.06 µg/l[1] in GWDUP02_072023 (duplicate of TMW16)	0.08 µg/l in TMW16_072023	0.002 µg/l	2 of 5
Benzo(k)fluoranthene	0.01 µg/l in GWDUP02_072023		0.002 µg/l	1 of 5

1. µg/l – microgram per liter

2. Turbidity in TMW16 at the time of sampling was 580 Nephelometric Turbidity Unit (NTUs) and the results for benzo(a)anthracene and benzo(k)fluoranthene in the noted samples were qualified by the laboratory as estimates. The analytes were detected above the method detection limit (MDL), but below the RL; therefore, the results are estimated concentrations.

Total Metals

Six total metals were identified at concentrations exceeding their respective SGVs. Minimum and maximum exceeding values are summarized in the table below.

Parameter	Minimum Detected Concentration above SGV	Maximum Detected Concentration above SGV	SGV	Frequency of Detection above SGV
Iron	1,120 µg/l in GWDUP02_072023	123,000 µg/l in TMW11_072123	300 µg/l	5 of 5
Lead	39.56 µg/l in TMW14_072123	97.76 µg/l in TMW11_072123	25 µg/l	2 of 5
Manganese	386.1 µg/l in TMW16_072023	2,291 µg/l in TMW11_072123	300 µg/l	5 of 5
Selenium	30 µg/l in TMW14_072123	53.7 µg/l in TMW11_072123	10 µg/l	2 of 5
Sodium	51,100 µg/l in TMW11_072123	434,000 µg/l in TMW16_072023	20,000 µg/l	5 of 5
Thallium	0.65 µg/l in TMW14_072123	2.18 µg/l in TMW11_072123	0.5 µg/l	2 of 5

Dissolved Metals

Three dissolved metals were identified at concentrations exceeding their respective SGVs. Minimum and maximum exceeding values are summarized in the table below.

Parameter	Minimum Detected Concentration above SGV	Maximum Detected Concentration above SGV	SGV	Frequency of Detection above SGV
Iron	425 µg/l in TMW11_072123	6,920 µg/l in TMW14_072123	300 µg/l	5 of 5
Manganese	410 µg/l in TMW16_072023	1,615 µg/l in TMW11_072123	300 µg/l	5 of 5
Sodium	103,000 µg/l in TMW14_072123	606,000 µg/l in TMW16_072023	20,000 µg/l	5 of 5

Groundwater sample analytical results are shown in **Table 3**, and analytical laboratory reports are included in **Appendix G**.

4.5 Soil Vapor Sample Results

Several VOCs were reported in soil vapor. There are no standards established for soil vapor, although both the NYSDOH and USEPA have developed guidance documents addressing the risk of vapor intrusion into buildings from detected concentrations.

The soil vapor and ambient-air sample results were compared to the Decision Matrices provided in the October 2006 NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York Decision Matrices for Sub-Slab Vapor and Indoor Air and subsequent updates (2017) and the USEPA Vapor Intrusion Screening Levels (VISL).

NYSDOH Decision Matrices evaluate eight VOCs (TCE, PCE, 1,1,1-trichlorethane, 1,1-DCE, cis-1,2-dichloroethene, carbon tetrachloride, methylene chloride, and vinyl chloride) using three matrices that evaluate the relationship between soil vapor and indoor-air concentrations and provide recommendations for actions such as monitoring or mitigation. Soil vapor samples were compared against the matrix values for which monitoring or mitigation may be recommended, but importantly, these recommendations are dependent not only on sub-slab concentrations but also on indoor-air concentrations.

Of the eight VOCs that were evaluated under the NYSDOH Decision Matrices, methylene chloride, TCE, PCE, and/or vinyl chloride were detected in the soil vapor samples. The following is a summary of concentration ranges for the detected matrix compounds in soil vapor samples.

Compound	NYSDOH Decision Matrices Minimum Concentration (µg/m³)[1]	Soil Vapor Concentration Range (µg/m³)	Number of Detections
Methylene chloride	100	2.23 (SV17) – 20.7 (SV12)	3
PCE	100	1.63 (SV11) – 7.8 (SV15)	5
TCE	6	3.06 (SV12)	1
Vinyl Chloride	6	0.524 (SV11)	1

1. µg/m³ – microgram per cubic meter

When methylene chloride, TCE, PCE, and vinyl chloride concentrations are evaluated using the NYSDOH Decision Matrices, recommendations range between "no further action" and "identify source(s) and resample or mitigate" for occupied structures.

The Phase II investigation did not include the collection of indoor-air samples so the matrix could not be applied as fully intended in the guidance. In addition, the NYSDOH matrices are conservative in that they do not differentiate commercial/industrial use from residential use. The risks associated with vapor intrusion in industrial/commercial settings are lower than in residential settings because the assumed duration of exposure for individuals is lower in a workplace and commercial setting (e.g., 8-hour workday) than in a residential setting.

Other VOCs were also detected in soil vapor; however, the NYSDOH has not issued corresponding matrix values for the other detected compounds. Based on soil and groundwater results, a site source of VOCs was not identified and the VOCs in soil vapor may be attributable to regional conditions.

Soil vapor sample results were also evaluated using the USEPA VISL Commercial criteria calculated using a Target Cancer Risk (TCR) of 1x10-6 and a Target Hazard Quotient (THQ) of 1 (May 2021). The concentration of one VOC, 1,3-Butadiene, marginally exceeded the USEPA VISL in one sample (14.1 µg/m³ in SV12_072023; USEP VISL of 13.6 µg/m³); however, the NYSDOH does not have matrix recommendations or air guideline values for this compound.

Soil vapor and ambient-air sample analytical results are shown in **Table 4 and 5**, and analytical laboratory reports are included in **Appendix G**.

5.0 CONCLUSIONS

The following is a summary of Phase II ESI findings:

- The geophysical survey was limited to clearance of boring locations and identified potential utility lines on the northern and northwestern parts of the site. Geophysical anomalies indicative of USTs were not identified.
- The site is underlain by a layer of re-worked strata from grade surface to about 5 feet bgs in most borings that generally consists of medium- to fine-grained sand, with varying amounts of silt and gravel. Trace concrete was observed in the re-worked material in borings SB-13 and SB19. Fine- to medium-grained sand with fine gravel, coarse sand, and silt were observed beneath the re-worked strata. Silt layers were also encountered in boring SB-15. Bedrock was not encountered during the Phase II ESI. Evidence of impacts (i.e., odors, stains, organic vapors) was not observed.
- Soil analytical results identified the VOC acetone and the pesticide 4,4'-DDD at concentrations above UU SCOs, but below RURR SCOs. Detected SVOCs, PCBs, and metals did not exceed UU SCOs.
- VOCs, pesticides, and PCBs were either not detected in groundwater samples or were reported below SGVs. Two SVOCs were reported above SGVs in the sample from TMW16 and its duplicate sample. The TMW-16 sample and duplicate were turbid and may have contained entrained sediment, and the results for these contaminants were qualified as an estimate by the laboratory; therefore, the exceeding SVOC results are not considered indicative of a groundwater condition at the site. Total metals in groundwater samples above the SGVs are attributed to entrained sediment because the only dissolved metals in groundwater above SGVs were iron, manganese, and sodium, which are indicative of naturally occurring regional conditions and not a point source or release.
- Petroleum-related and chlorinated VOCs were detected in soil vapor, but not at concentrations likely indicative of an on-site release. Of the eight VOCs that were evaluated under the NYSDOH Decision Matrices, methylene chloride, TCE, PCE, and/or vinyl chloride were detected in the soil vapor samples. When concentrations are evaluated using the NYSDOH Decision Matrices, recommendations range between "no further action" and "identify source(s) and resample or mitigate" for occupied structures depending on corresponding indoor-air concentration. The NYSDOH matrices are conservative in that they do not differentiate commercial/industrial use from residential. The concentration of one VOC, 1,3-Butadiene, marginally exceeded the USEPA VISL in one sample; however, the NYSDOH does not have matrix recommendations or air guideline values for this compound.

6.0 LIMITATIONS

This report was prepared expressly for Las Vegas Sands Corp for the property at 1255 Hempstead Turnpike, in Uniondale, New York, and for the objectives defined here. Special risks occur whenever engineering or related disciplines are applied to identify subsurface conditions. Even a comprehensive sampling and testing program implemented in accordance with a professional standard of care may fail to detect certain conditions. The environmental, geologic, geotechnical, geochemical, and hydrogeologic conditions that Langan interprets to exist between sampling points may differ from those that actually exist. Actual conditions will vary from those encountered at the locations where borings, sampling, surveys, observations or explorations are made by Langan or its subcontractors and the data, interpretation, and recommendations of Langan are based solely on the information available to it. Furthermore, the passage of time, natural occurrences, and/or direct or indirect human intervention at or near the site may substantially alter discovered conditions. Langan cannot be responsible for interpretations by others of the information Langan develops or provides to Las Vegas Sands Corp without specific written authorization from Langan.

TABLES

Table 1
Phase II Environmental Site Investigation Report
Sample Summary

Sands New York
1255 Hempstead Turnpike
Uniondale, New York
Langan Project No.: 170754501

1255 Hempstead Turnpike, Uniondale, NY

SOIL

Soil Samples

Broing ID	Sample Number	Reasoning for Sample (e.g., impacts, fill, etc.)	Type	Sample Interval	Sample Name	Sample Date	Sample Time	Notes (e.g., fill, native, staining, etc.)	Sample Analysis
SB11	1	Native	Grab	22-24	SB11_22-24	7/20/2023	12:15	Native	NYSDEC Part 375/TCL VOCs, SVOCs, PCBs, Pesticides, Part 375/TAL Metals (including Hexavalent & Trivalent Chromium).
SB12	2	Native	Grab	12-14	SB12_12-14	7/20/2023	15:40	Native	
SB13	3	Re-worked Strata	Grab	2-4	SB13_2-4	7/21/2023	15:00	Re-worked Strata	
SB14	4	Native	Grab	18-20	SB14_18-20	7/20/2023	16:00	Native	
SB15	5	Re-worked Strata	Grab	0-2	SB15_0-2	7/19/2023	10:15	Re-worked Strata	
SB16	6	Native	Grab	13-15	SB16_13-15	7/19/2023	14:45	Native	
SB17	7	Re-worked Strata	Grab	2-4	SB17_2-4	7/19/2023	11:30	Re-worked Strata	
SB18	8	Native	Grab	22-24	SB18_22-24	7/20/2023	10:30	Native	
SB19	9	Native	Grab	5-7	SB19_5-7	7/21/2023	12:30	Native	
SB20	10	Native	Grab	30-32	SB20_30-32	7/19/2023	14:00	Native	
SB21	11	Observed Staining in Elevator Shaft	Grab	5-7	SB21_5-7	7/21/2023	9:43	Down gradient from elevator shaft	

Soil QA/QC Samples

Boring ID	Sample Number	Parent Sample ID	Sample Depth (feet bgs)	Type	Sample Interval	Sample Name	Sample Date	Sample Time	Notes	Sample Analysis
SB18	12	SB18_22-24	22-24	Duplicate	22-24	SODUP03_072023	7/20/2023	N/A		NYSDEC Part 375/TCL VOCs, SVOCs, PCBs, Pesticides, Part 375/TAL Metals (including Hexavalent & Trivalent Chromium).
Field Blank	N/A	N/A	N/A	Field Blank	N/A	SOFB02_071923	7/19/2023	13:15		
Trip Blank	N/A	N/A	N/A	Trip Blank	N/A	TB03_071923	7/20/2023	N/A		VOCs
Trip Blank	N/A	N/A	N/A	Trip Blank	N/A	TB04_072123	7/21/2023	N/A		

GROUNDWATER

Groundwater Samples

Broing ID	Sample Number	Well Construction Log Done?	Depth to Water (feet bgs)	Depth of Well Bottom	Sample Name	Sample Date	Sample Time	Notes	Sample Analysis
TMW11	1	Y	31.5	40	TMW11_072123	7/21/2023	13:00	Purged and sampled via bailer	NYSDEC Part 375/TCL VOCs, SVOCs, PCBs, Pesticides, Part 375/TAL total and dissolved Metals (including Hexavalent & Trivalent Chromium).
TMW16	2	Y	26.3	40	TMW16_072023	7/20/2023	8:55		
TMW14	3	Y	29.33	40	TMW14_072123	7/21/2023	11:00	Purged and sampled via bailer	
TMW18	4	Y	28.97	40	TMW18_072023	7/20/2023	12:00		

Groundwater QA/QC Samples

Boring ID	Sample Number	Parent Sample ID	Type	Sample Name	Sample Date	Sample Time	Notes	Sample Analysis
SB16	5	TMW16_072023	Duplicate	GWDUP02_072023	7/20/2023	N/A		NYSDEC Part 375/TCL VOCs, SVOCs, PCBs, Pesticides, Part 375/TAL total and dissolved Metals (including Hexavalent & Trivalent Chromium).
Field Blank	N/A	N/A	Field Blank	GWFB02_072123	7/21/2023	13:30		

Table 1
Phase II Environmental Site Investigation Report
Sample Summary

Sands New York
1255 Hempstead Turnpike
Uniondale, New York
Langan Project No.: 170754501

	Soil Vapor Samples										
	Broing ID	Sample Number	Completed Soil Vapor Log?	Sample Depth (feet bgs)	Type	Sample Interval	Sample Name	Sample Date	Sample Time	Notes	Sample Analysis
SOIL VAPOR	SV11	1	Y	5 feet deep	Grab	N/A	SV11_072023	7/20/2023	15:05		VOCs
	SV12	2	Y		Grab	N/A	SV12_072023	7/20/2023	15:31		
	SV15	3	Y		Grab	N/A	SV15_072023	7/20/2023	15:25		
	SV17	4	Y		Grab	N/A	SV17_072023	7/20/2023	16:40		
	SV18	5	Y		Grab	N/A	SV18_072023	7/20/2023	15:11		
	AA02	N/A	Y	3-5 feet above grade	Grab	N/A	AA02_072023	7/20/2023	15:12		

Notes:
1. NYSDEC = New York State Department of Environmental Conservation
2. TCL = Target Compound List
3. VOC = Volatile Organic Compound
4. SVOC = Semi-volatile Organic Compound
5. PCB = Polychlorinated Biphenyl
6. TAL = Target Analyte List
7. N/A = Not Applicable
8. bgs = Below Grade Surface
9. QA/QC = Quality Assurance/Quality Control
10. Y = Yes

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Sands New York
1255 Hempstead Turnpike
Uniondale, New York
Langan Project No.: 170754501

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB11	SB12	SB13	SB14	SB15	SB16	SB17	SB18	SB18	SB19	SB20	SB21
				Sample Name	SB11_22-24	SB12_12-14	SB13_2-4	SB14_18-20	SB15_0-2	SB16_13-15	SB17_2-4	SB18_22-24	SODUP03_072023	SB19_5-7	SB20_30-32	SB21_5-7
				Sample Date	07/20/2023	07/20/2023	07/21/2023	07/20/2023	07/19/2023	07/19/2023	07/19/2023	07/20/2023	07/20/2023	07/21/2023	07/19/2023	07/21/2023
				Sample Depth	22-24	12-14	2-4	18-20	0-2	13-15	2-4	22-24	22-24	5-7	30-32	5-7
				Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	mg/kg	<0.00044 U	<0.00049 U	<0.00057 U	<0.00046 U	<0.00055 U	<0.00058 U	<0.00051 U	<0.00047 U	<0.00053 U	<0.00039 U	<0.00035 U	<0.00042 U
1,1,1-Trichloroethane	71-55-6	0.68	100	mg/kg	<0.00044 U	<0.00049 U	<0.00057 U	<0.00046 U	<0.00055 U	<0.00058 U	<0.00051 U	<0.00047 U	<0.00053 U	<0.00039 U	<0.00035 U	<0.00042 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	mg/kg	<0.00044 U	<0.00049 U	<0.00057 U	<0.00046 U	<0.00055 U	<0.00058 U	<0.00051 U	<0.00047 U	<0.00053 U	<0.00039 U	<0.00035 U	<0.00042 U
1,1,2-Trichloroethane	79-00-5	NS	NS	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
1,1-Dichloroethane	75-34-3	0.27	26	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
1,1-Dichloroethene	75-35-4	0.33	100	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
1,1-Dichloropropene	563-58-6	NS	NS	mg/kg	<0.00044 U	<0.00049 U	<0.00057 U	<0.00046 U	<0.00055 U	<0.00058 U	<0.00051 U	<0.00047 U	<0.00053 U	<0.00039 U	<0.00035 U	<0.00042 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
1,2,3-Trichloropropane	96-18-4	NS	NS	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
1,2,4-Trimethylbenzene	95-63-6	3.6	52	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	mg/kg	<0.0026 U	<0.0029 U	<0.0034 U	<0.0028 U	<0.0033 U	<0.0034 U	<0.0031 U	<0.0028 U	<0.0032 U	<0.0023 U	<0.0021 U	<0.0025 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
1,2-Dichlorobenzene	95-50-1	1.1	100	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
1,2-Dichloroethane	107-06-2	0.02	3.1	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
1,2-Dichloropropane	78-87-5	NS	NS	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	52	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
1,3-Dichlorobenzene	541-73-1	2.4	49	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
1,3-Dichloropropane	142-28-9	NS	NS	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
1,4-Dichlorobenzene	106-46-7	1.8	13	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
1,4-Diethyl Benzene	105-05-5	NS	NS	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	13	mg/kg	<0.07 U	<0.078 U	<0.091 U	<0.074 U	<0.088 U	<0.092 U	<0.082 U	<0.076 U	<0.085 U	<0.062 U	<0.056 U	<0.068 U
2,2-Dichloropropane	594-20-7	NS	NS	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
2-Chlorotoluene	95-49-8	NS	NS	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
2-Hexanone (MBK)	591-78-6	NS	NS	mg/kg	<0.0088 U	<0.0097 U	<0.011 U	<0.0092 U	<0.011 U	<0.012 U	<0.01 U	<0.0095 U	<0.011 U	<0.0078 U	<0.007 U	<0.0085 U
4-Chlorotoluene	106-43-4	NS	NS	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
4-Ethyltoluene	622-96-8	NS	NS	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
Acetone	67-64-1	**0.05**	100	mg/kg	<0.0088 U	<0.0097 U	**0.19**	<0.0092 U	<0.011 U	<0.012 U	0.0063 J	<0.0095 U	<0.011 U	0.017	<0.007 U	0.017
Acrylonitrile	107-13-1	NS	NS	mg/kg	<0.0035 U	<0.0039 U	<0.0046 U	<0.0037 U	<0.0044 U	<0.0046 U	<0.0041 U	<0.0038 U	<0.0042 U	<0.0031 U	<0.0028 U	<0.0034 U
Benzene	71-43-2	0.06	4.8	mg/kg	<0.00044 U	<0.00049 U	<0.00057 U	<0.00046 U	<0.00055 U	<0.00058 U	<0.00051 U	<0.00047 U	<0.00053 U	0.00014 J	<0.00035 U	<0.00042 U
Bromobenzene	108-86-1	NS	NS	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
Bromochloromethane	74-97-5	NS	NS	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
Bromodichloromethane	75-27-4	NS	NS	mg/kg	<0.00044 U	<0.00049 U	<0.00057 U	<0.00046 U	<0.00055 U	<0.00058 U	<0.00051 U	<0.00047 U	<0.00053 U	<0.00039 U	<0.00035 U	<0.00042 U
Bromoform	75-25-2	NS	NS	mg/kg	<0.0035 U	<0.0039 U	<0.0046 U	<0.0037 U	<0.0044 U	<0.0046 U	<0.0041 U	<0.0038 U	<0.0042 U	<0.0031 U	<0.0028 U	<0.0034 U
Bromomethane	74-83-9	NS	NS	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
Carbon Disulfide	75-15-0	NS	NS	mg/kg	<0.0088 U	<0.0097 U	<0.011 U	<0.0092 U	<0.011 U	<0.012 U	<0.01 U	<0.0095 U	<0.011 U	<0.0078 U	<0.007 U	<0.0085 U
Carbon Tetrachloride	56-23-5	0.76	2.4	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
Chlorobenzene	108-90-7	1.1	100	mg/kg	<0.00044 U	<0.00049 U	<0.00057 U	<0.00046 U	<0.00055 U	<0.00058 U	<0.00051 U	<0.00047 U	<0.00053 U	<0.00039 U	<0.00035 U	<0.00042 U
Chloroethane	75-00-3	NS	NS	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
Chloroform	67-66-3	0.37	49	mg/kg	<0.0013 U	<0.0014 U	<0.0017 U	<0.0014 U	<0.0016 U	<0.0017 U	<0.0015 U	<0.0014 U	<0.0016 U	<0.0012 U	<0.001 U	<0.0013 U
Chloromethane	74-87-3	NS	NS	mg/kg	<0.0035 U	<0.0039 U	<0.0046 U	<0.0037 U	<0.0044 U	<0.0046 U	<0.0041 U	<0.0038 U	<0.0042 U	<0.0031 U	<0.0028 U	<0.0034 U
Cis-1,2-Dichloroethene	156-59-2	0.25	100	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	mg/kg	<0.00044 U	<0.00049 U	<0.00057 U	<0.00046 U	<0.00055 U	<0.00058 U	<0.00051 U	<0.00047 U	<0.00053 U	<0.00039 U	<0.00035 U	<0.00042 U
Cymene	99-87-6	NS	NS	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
Dibromochloromethane	124-48-1	NS	NS	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
Dibromomethane	74-95-3	NS	NS	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
Dichlorodifluoromethane	75-71-8	NS	NS	mg/kg	<0.0088 U	<0.0097 U	<0.011 U	<0.0092 U	<0.011 U	<0.012 U	<0.01 U	<0.0095 U	<0.011 U	<0.0078 U	<0.007 U	<0.0085 U
Diethyl Ether (Ethyl Ether)	60-29-7	NS	NS	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
Ethylbenzene	100-41-4	1	41	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
Hexachlorobutadiene	87-68-3	NS	NS	mg/kg	<0.0035 U	<0.0039 U	<0.0046 U	<0.0037 U	<0.0044 U	<0.0046 U	<0.0041 U	<0.0038 U	<0.0042 U	<0.0031 U	<0.0028 U	<0.0034 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
M,P-Xylene	179601-23-1	NS	NS	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	100	mg/kg	<0.0088 U	<0.0097 U	0.034	<0.0092 U	<0.011 U	<0.012 U	<0.01 U	<0.0095 U	<0.011 U	<0.0078 U	<0.007 U	<0.0085 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanol	108-10-1	NS	NS	mg/kg	<0.0088 U	<0.0097 U	<0.011 U	<0.0092 U	<0.011 U	<0.012 U	<0.01 U	<0.0095 U	<0.011 U	<0.0078 U	<0.007 U	<0.0085 U
Methylene Chloride	75-09-2	0.05	100	mg/kg	<0.0044 U	<0.0049 U	<0.0057 U	<0.0046 U	<0.0055 U	<0.0058 U	<0.0051 U	<0.0047 U	<0.0053 U	<0.0039 U	<0.0035 U	<0.0042 U
Naphthalene	91-20-3	12	100	mg/kg	<0.0035 U	<0.0039 U	<0.0046 U	<0.0037 U	<0.0044 U	<0.0046 U	<0.0041 U	<0.0038 U	<0.0042 U	<0.0031 U	<0.0028 U	<0.0034 U
n-Butylbenzene	104-51-8	12	100	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
n-Propylbenzene	103-65-1	3.9	100	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
Sec-Butylbenzene	135-98-8	11	100	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
Styrene	100-42-5	NS	NS	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
T-Butylbenzene	98-06-6	5.9	100	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	100	mg/kg	<0.0018 U	<0.0019 U	<0.0023 U	<0.0018 U	<0.0022 U	<0.0023 U	<0.002 U	<0.0019 U	<0.0021 U	<0.0016 U	<0.0014 U	<0.0017 U
Tetrachloroethene (PCE)	127-18-4	1.3	19	mg/kg	<0.00044 U	<0.00049 U	<0.00057 U	<0.00046 U	<0.00055 U	<0.00058 U	<0.00051 U	<0.00047 U	<0.00053 U	<0.00039 U	<0.00035 U	<0.00042 U
Toluene	108-88-3	0.7	100	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
Total 1,2-Dichloroethene (Cis and Trans)	540-59-0	NS	NS	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
Total Xylenes	1330-20-7	0.26	100	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	NS	NS	mg/kg	<0.00044 U	<0.00049 U	<0.00057 U	<0.00046 U	<0.00055 U	<0.00058 U	<0.00051 U	<0.00047 U	<0.00053 U	<0.00039 U	<0.00035 U	<0.00042 U
Trans-1,2-Dichloroethene	156-60-5	0.19	100	mg/kg	<0.0013 U	<0.0014 U	<0.0017 U	<0.0014 U	<0.0016 U	<0.0017 U	<0.0015 U	<0.0014 U	<0.0016 U	<0.0012 U	<0.001 U	<0.0013 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U
Trans-1,4-Dichloro-2-Butene	110-57-6	NS	NS	mg/kg	<0.0044 U	<0.0049 U	<0.0057 U	<0.0046 U	<0.0055 U	<0.0058 U	<0.0051 U	<0.0047 U	<0.0053 U	<0.0039 U	<0.0035 U	<0.0042 U
Trichloroethene (TCE)	79-01-6	0.47	21	mg/kg	<0.00044 U	<0.00049 U	<0.00057 U	<0.00046 U	<0.00055 U	<0.00058 U	<0.00051 U	<0.00047 U	<0.00053 U	<0.00039 U	<0.00035 U	<0.00042 U
Trichlorofluoromethane	75-69-4	NS	NS	mg/kg	<0.0035 U	<0.0039 U	<0.0046 U	<0.0037 U	<0.0044 U	<0.0046 U	<0.0041 U	<0.0038 U	<0.0042 U	<0.0031 U	<0.0028 U	<0.0034 U
Vinyl Acetate	108-05-4	NS	NS	mg/kg	<0.0088 U	<0.0097 U	<0.011 U	<0.0092 U	<0.011 U	<0.012 U	<0.01 U	<0.0095 U	<0.011 U	<0.0078 U	<0.007 U	<0.0085 U
Vinyl Chloride	75-01-4	0.02	0.9	mg/kg	<0.00088 U	<0.00097 U	<0.0011 U	<0.00092 U	<0.0011 U	<0.0012 U	<0.001 U	<0.00095 U	<0.0011 U	<0.00078 U	<0.0007 U	<0.00085 U

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Sands New York
1255 Hempstead Turnpike
Uniondale, New York
Langan Project No.: 170754501

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB11	SB12	SB13	SB14	SB15	SB16	SB17	SB18	SB18	SB19	SB20	SB21
				Sample Name	SB11_22-24	SB12_12-14	SB13_2-4	SB14_18-20	SB15_0-2	SB16_13-15	SB17_2-4	SB18_22-24	SODUP03_072023	SB19_5-7	SB20_30-32	SB21_5-7
				Sample Date	07/20/2023	07/20/2023	07/21/2023	07/20/2023	07/19/2023	07/19/2023	07/19/2023	07/20/2023	07/20/2023	07/21/2023	07/19/2023	07/21/2023
				Sample Depth	22-24	12-14	2-4	18-20	0-2	13-15	2-4	22-24	22-24	5-7	30-32	5-7
				Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
1,2-Dichlorobenzene	95-50-1	1.1	100	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
1,3-Dichlorobenzene	541-73-1	2.4	49	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
1,4-Dichlorobenzene	106-46-7	1.8	13	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	13	mg/kg	<0.026 U	<0.026 U	<0.028 U	<0.027 U	<0.029 U	<0.026 U	<0.027 U	<0.027 U	<0.027 U	<0.026 U	<0.025 U	<0.027 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	mg/kg	<0.11 U	<0.1 U	<0.11 U	<0.11 U	<0.12 U	<0.1 U	<0.11 U	<0.11 U	<0.11 U	<0.1 U	<0.1 U	<0.11 U
2,4-Dichlorophenol	120-83-2	NS	NS	mg/kg	<0.16 U	<0.15 U	<0.17 U	<0.16 U	<0.18 U	<0.16 U	<0.16 U	<0.16 U	<0.16 U	<0.16 U	<0.15 U	<0.16 U
2,4-Dimethylphenol	105-67-9	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
2,4-Dinitrophenol	51-28-5	NS	NS	mg/kg	<0.85 U	<0.82 U	<0.9 U	<0.86 U	<0.94 U	<0.83 U	<0.85 U	<0.85 U	<0.85 U	<0.83 U	<0.8 U	<0.87 U
2,4-Dinitrotoluene	121-14-2	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
2,6-Dinitrotoluene	606-20-2	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
2-Chloronaphthalene	91-58-7	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
2-Chlorophenol	95-57-8	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
2-Methylnaphthalene	91-57-6	NS	NS	mg/kg	<0.21 U	<0.2 U	<0.22 U	<0.21 U	<0.23 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.2 U	<0.22 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	100	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
2-Nitroaniline	88-74-4	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
2-Nitrophenol	88-75-5	NS	NS	mg/kg	<0.38 U	<0.37 U	<0.4 U	<0.39 U	<0.42 U	<0.37 U	<0.38 U	<0.38 U	<0.38 U	<0.37 U	<0.36 U	<0.39 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	100	mg/kg	<0.25 U	<0.24 U	<0.27 U	<0.26 U	<0.28 U	<0.25 U	<0.26 U	<0.26 U	<0.26 U	<0.25 U	<0.24 U	<0.26 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
3-Nitroaniline	99-09-2	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	mg/kg	<0.46 U	<0.44 U	<0.48 U	<0.46 U	<0.51 U	<0.45 U	<0.46 U	<0.46 U	<0.46 U	<0.45 U	<0.44 U	<0.47 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
4-Chloroaniline	106-47-8	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
4-Nitroaniline	100-01-6	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
4-Nitrophenol	100-02-7	NS	NS	mg/kg	<0.25 U	<0.24 U	<0.26 U	<0.25 U	<0.27 U	<0.24 U	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<0.24 U	<0.25 U
Acenaphthene	83-32-9	20	100	mg/kg	<0.14 U	<0.14 U	<0.15 U	<0.14 U	<0.16 U	<0.14 U	<0.14 U	<0.14 U	<0.14 U	<0.14 U	<0.13 U	<0.14 U
Acenaphthylene	208-96-8	100	100	mg/kg	<0.14 U	<0.14 U	<0.15 U	<0.14 U	<0.16 U	<0.14 U	<0.14 U	<0.14 U	<0.14 U	<0.14 U	<0.13 U	<0.14 U
Acetophenone	98-86-2	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
Anthracene	120-12-7	100	100	mg/kg	<0.11 U	<0.1 U	<0.11 U	<0.11 U	<0.12 U	<0.1 U	<0.11 U	<0.11 U	<0.11 U	<0.1 U	<0.1 U	<0.11 U
Benzo(a)anthracene	56-55-3	1	1	mg/kg	<0.11 U	<0.1 U	0.03 J	<0.11 U	<0.12 U	<0.1 U	<0.11 U	<0.11 U	<0.11 U	<0.1 U	<0.1 U	<0.11 U
Benzo(a)pyrene	50-32-8	1	1	mg/kg	<0.14 U	<0.14 U	<0.15 U	<0.14 U	<0.16 U	<0.14 U	<0.14 U	<0.14 U	<0.14 U	<0.14 U	<0.13 U	<0.14 U
Benzo(b)fluoranthene	205-99-2	1	1	mg/kg	<0.11 U	<0.1 U	<0.11 U	<0.11 U	<0.12 U	<0.1 U	<0.11 U	<0.11 U	<0.11 U	<0.1 U	<0.1 U	<0.11 U
Benzo(g,h,i)Perylene	191-24-2	100	100	mg/kg	<0.14 U	<0.14 U	<0.15 U	<0.14 U	<0.16 U	<0.14 U	<0.14 U	<0.14 U	<0.14 U	<0.14 U	<0.13 U	<0.14 U
Benzo(k)fluoranthene	207-08-9	0.8	3.9	mg/kg	<0.11 U	<0.1 U	<0.11 U	<0.11 U	<0.12 U	<0.1 U	<0.11 U	<0.11 U	<0.11 U	<0.1 U	<0.1 U	<0.11 U
Benzoic Acid	65-85-0	NS	NS	mg/kg	<0.57 U	<0.55 U	<0.6 U	<0.58 U	<0.63 U	<0.56 U	<0.58 U	<0.58 U	<0.58 U	<0.56 U	<0.54 U	<0.59 U
Benzyl Alcohol	100-51-6	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	mg/kg	<0.4 U	<0.39 U	<0.42 U	<0.41 U	<0.44 U	<0.39 U	<0.4 U	<0.4 U	<0.4 U	<0.39 U	<0.38 U	<0.41 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	mg/kg	<0.19 U	<0.18 U	<0.2 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U	<0.2 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	mg/kg	<0.16 U	<0.15 U	<0.17 U	<0.16 U	<0.18 U	<0.16 U	<0.16 U	<0.16 U	<0.16 U	<0.16 U	<0.15 U	<0.16 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	mg/kg	<0.21 U	<0.2 U	<0.22 U	<0.21 U	<0.23 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.2 U	<0.22 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
Carbazole	86-74-8	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
Chrysene	218-01-9	1	3.9	mg/kg	<0.11 U	<0.1 U	0.025 J	<0.11 U	<0.12 U	<0.1 U	<0.11 U	<0.11 U	<0.11 U	<0.1 U	<0.1 U	<0.11 U
Dibenz(a,h)anthracene	53-70-3	0.33	0.33	mg/kg	<0.11 U	<0.1 U	<0.11 U	<0.11 U	<0.12 U	<0.1 U	<0.11 U	<0.11 U	<0.11 U	<0.1 U	<0.1 U	<0.11 U
Dibenzofuran	132-64-9	7	59	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
Dibutyl phthalate	84-74-2	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
Diethyl phthalate	84-66-2	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
Dimethyl phthalate	131-11-3	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
Dioctyl phthalate	117-84-0	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
Fluoranthene	206-44-0	100	100	mg/kg	<0.11 U	<0.1 U	0.043 J	<0.11 U	<0.12 U	<0.1 U	0.026 J	<0.11 U	<0.11 U	<0.1 U	<0.1 U	<0.11 U
Fluorene	86-73-7	30	100	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
Hexachlorobenzene	118-74-1	0.33	1.2	mg/kg	<0.11 U	<0.1 U	<0.11 U	<0.11 U	<0.12 U	<0.1 U	<0.11 U	<0.11 U	<0.11 U	<0.1 U	<0.1 U	<0.11 U
Hexachlorobutadiene	87-68-3	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	mg/kg	<0.5 U	<0.49 U	<0.53 U	<0.51 U	<0.56 U	<0.49 U	<0.51 U	<0.51 U	<0.51 U	<0.49 U	<0.48 U	<0.52 U
Hexachloroethane	67-72-1	NS	NS	mg/kg	<0.14 U	<0.14 U	<0.15 U	<0.14 U	<0.16 U	<0.14 U	<0.14 U	<0.14 U	<0.14 U	<0.14 U	<0.13 U	<0.14 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	mg/kg	<0.14 U	<0.14 U	<0.15 U	<0.14 U	<0.16 U	<0.14 U	<0.14 U	<0.14 U	<0.14 U	<0.14 U	<0.13 U	<0.14 U
Isophorone	78-59-1	NS	NS	mg/kg	<0.16 U	<0.15 U	<0.17 U	<0.16 U	<0.18 U	<0.16 U	<0.16 U	<0.16 U	<0.16 U	<0.16 U	<0.15 U	<0.16 U
Naphthalene	91-20-3	12	100	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
Nitrobenzene	98-95-3	NS	NS	mg/kg	<0.16 U	<0.15 U	<0.17 U	<0.16 U	<0.18 U	<0.16 U	<0.16 U	<0.16 U	<0.16 U	<0.16 U	<0.15 U	<0.16 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	mg/kg	<0.14 U	<0.14 U	<0.15 U	<0.14 U	<0.16 U	<0.14 U	<0.14 U	<0.14 U	<0.14 U	<0.14 U	<0.13 U	<0.14 U
Pentachlorophenol	87-86-5	0.8	6.7	mg/kg	<0.14 U	<0.14 U	<0.15 U	<0.14 U	<0.16 U	<0.14 U	<0.14 U	<0.14 U	<0.14 U	<0.14 U	<0.13 U	<0.14 U
Phenanthrene	85-01-8	100	100	mg/kg	<0.11 U	<0.1 U	<0.11 U	<0.11 U	<0.12 U	<0.1 U	<0.11 U	<0.11 U	<0.11 U	<0.1 U	<0.1 U	<0.11 U
Phenol	108-95-2	0.33	100	mg/kg	<0.18 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U
Pyrene	129-00-0	100	100	mg/kg	<0.11 U	<0.1 U	0.042 J	<0.11 U	<0.12 U	<0.1 U	0.024 J	<0.11 U	<0.11 U	<0.1 U	<0.1 U	<0.11 U

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Sands New York
1255 Hempstead Turnpike
Uniondale, New York
Langan Project No.: 170754501

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB11	SB12	SB13	SB14	SB15	SB16	SB17	SB18	SB18	SB19	SB20	SB21
				Sample Name	SB11_22-24	SB12_12-14	SB13_2-4	SB14_18-20	SB15_0-2	SB16_13-15	SB17_2-4	SB18_22-24	SODUP03_072023	SB19_5-7	SB20_30-32	SB21_5-7
				Sample Date	07/20/2023	07/20/2023	07/21/2023	07/20/2023	07/19/2023	07/19/2023	07/19/2023	07/20/2023	07/20/2023	07/21/2023	07/19/2023	07/21/2023
				Sample Depth	22-24	12-14	2-4	18-20	0-2	13-15	2-4	22-24	22-24	5-7	30-32	5-7
				Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides																
4,4'-DDD	72-54-8	**0.0033**	13	mg/kg	<0.00162 U	<0.00161 U	**0.00476**	0.00158 J	<0.00186 U	<0.00162 U	<0.00168 U	<0.00173 U	<0.00167 U	<0.0016 U	<0.0016 U	<0.00169 U
4,4'-DDE	72-55-9	0.0033	8.9	mg/kg	<0.00162 U	<0.00161 U	0.00206	0.000645 J	0.000809 J	<0.00162 U	0.00128 J	<0.00173 U	<0.00167 U	<0.0016 U	<0.0016 U	<0.00169 U
4,4'-DDT	50-29-3	0.0033	7.9	mg/kg	<0.00162 U	<0.00161 U	0.00278	<0.00166 U	<0.00186 U	<0.00162 U	0.00191 P	<0.00173 U	<0.00167 U	<0.0016 U	<0.0016 U	0.00152 J
Aldrin	309-00-2	0.005	0.097	mg/kg	<0.00162 U	<0.00161 U	<0.00177 U	<0.00166 U	<0.00186 U	<0.00162 U	<0.00168 U	<0.00173 U	<0.00167 U	<0.0016 U	<0.0016 U	<0.00169 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.48	mg/kg	<0.000677 U	<0.00067 U	<0.000736 U	<0.000692 U	<0.000776 U	<0.000675 U	<0.000702 U	<0.000722 U	<0.000695 U	<0.000666 U	<0.000665 U	<0.000703 U
Alpha Chlordane	5103-71-9	0.094	4.2	mg/kg	<0.00203 U	<0.00201 U	<0.00221 U	<0.00208 U	<0.00233 U	<0.00202 U	<0.00211 U	<0.00217 U	<0.00208 U	<0.002 U	<0.00199 U	0.00099 JIP
Alpha Endosulfan	959-98-8	2.4	24	mg/kg	<0.00162 U	<0.00161 U	<0.00177 U	<0.00166 U	<0.00186 U	<0.00162 U	<0.00168 U	<0.00173 U	<0.00167 U	<0.0016 U	<0.0016 U	<0.00169 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.36	mg/kg	<0.00162 U	<0.00161 U	<0.00177 U	<0.00166 U	<0.00186 U	<0.00162 U	<0.00168 U	<0.00173 U	<0.00167 U	<0.0016 U	<0.0016 U	<0.00169 U
Beta Endosulfan	33213-65-9	2.4	24	mg/kg	<0.00162 U	<0.00161 U	<0.00177 U	<0.00166 U	<0.00186 U	<0.00162 U	<0.00168 U	<0.00173 U	<0.00167 U	<0.0016 U	<0.0016 U	<0.00169 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	mg/kg	<0.0135 U	<0.0134 U	<0.0147 U	<0.0138 U	<0.0155 U	<0.0135 U	<0.014 U	<0.0144 U	<0.0139 U	<0.0133 U	<0.0133 U	<0.0141 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	100	mg/kg	<0.00162 U	<0.00161 U	<0.00177 U	<0.00166 U	<0.00186 U	<0.00162 U	<0.00168 U	<0.00173 U	<0.00167 U	<0.0016 U	<0.0016 U	<0.00169 U
Dieldrin	60-57-1	0.005	0.2	mg/kg	<0.00102 U	<0.001 U	<0.0011 U	<0.00104 U	<0.00116 U	<0.00101 U	<0.00105 U	<0.00108 U	<0.00104 U	<0.001 U	<0.000997 U	<0.00105 U
Endosulfan Sulfate	1031-07-8	2.4	24	mg/kg	<0.000677 U	<0.00067 U	<0.000736 U	<0.000692 U	<0.000776 U	<0.000675 U	<0.000702 U	<0.000722 U	<0.000695 U	<0.000666 U	<0.000665 U	<0.000703 U
Endrin	72-20-8	0.014	11	mg/kg	<0.000677 U	<0.00067 U	<0.000736 U	<0.000692 U	<0.000776 U	<0.000675 U	<0.000702 U	<0.000722 U	<0.000695 U	<0.000666 U	<0.000665 U	<0.000703 U
Endrin Aldehyde	7421-93-4	NS	NS	mg/kg	<0.00203 U	<0.00201 U	<0.00221 U	<0.00208 U	<0.00233 U	<0.00202 U	<0.00211 U	<0.00217 U	<0.00208 U	<0.002 U	<0.00199 U	<0.00211 U
Endrin Ketone	53494-70-5	NS	NS	mg/kg	<0.00162 U	<0.00161 U	<0.00177 U	<0.00166 U	<0.00186 U	<0.00162 U	<0.00168 U	<0.00173 U	<0.00167 U	<0.0016 U	<0.0016 U	<0.00169 U
Gamma Bhc (Lindane)	58-89-9	0.1	1.3	mg/kg	<0.000677 U	<0.00067 U	<0.000736 U	<0.000692 U	<0.000776 U	<0.000675 U	<0.000702 U	<0.000722 U	<0.000695 U	<0.000666 U	<0.000665 U	<0.000703 U
Gamma Chlordane (Trans)	5103-74-2	NS	NS	mg/kg	<0.00203 U	<0.00201 U	0.00149 J	<0.00208 U	<0.00233 U	<0.00202 U	<0.00211 U	<0.00217 U	<0.00208 U	<0.002 U	<0.00199 U	0.00104 J
Heptachlor	76-44-8	0.042	2.1	mg/kg	<0.000813 U	<0.000804 U	<0.000883 U	<0.000831 U	<0.000931 U	<0.00081 U	<0.000842 U	<0.000867 U	<0.000834 U	<0.0008 U	<0.000798 U	<0.000844 U
Heptachlor Epoxide	1024-57-3	NS	NS	mg/kg	<0.00305 U	<0.00301 U	<0.00331 U	<0.00312 U	<0.00349 U	<0.00304 U	<0.00316 U	<0.00325 U	<0.00313 U	<0.003 U	<0.00299 U	<0.00316 U
Methoxychlor	72-43-5	NS	NS	mg/kg	<0.00305 U	<0.00301 U	<0.00331 U	<0.00312 U	<0.00349 U	<0.00304 U	<0.00316 U	<0.00325 U	<0.00313 U	<0.003 U	<0.00299 U	<0.00316 U
Toxaphene	8001-35-2	NS	NS	mg/kg	<0.0305 U	<0.0301 U	<0.0331 U	<0.0312 U	<0.0349 U	<0.0304 U	<0.0316 U	<0.0325 U	<0.0313 U	<0.03 U	<0.0299 U	<0.0316 U
Polychlorinated Biphenyl																
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	mg/kg	<0.0494 U	<0.0485 U	<0.0556 U	<0.0526 U	<0.0569 U	<0.0486 U	<0.05 U	<0.0514 U	<0.0538 U	<0.0488 U	<0.0479 U	<0.0511 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	mg/kg	<0.0494 U	<0.0485 U	<0.0556 U	<0.0526 U	<0.0569 U	<0.0486 U	<0.05 U	<0.0514 U	<0.0538 U	<0.0488 U	<0.0479 U	<0.0511 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	mg/kg	<0.0494 U	<0.0485 U	<0.0556 U	<0.0526 U	<0.0569 U	<0.0486 U	<0.05 U	<0.0514 U	<0.0538 U	<0.0488 U	<0.0479 U	<0.0511 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	mg/kg	<0.0494 U	<0.0485 U	<0.0556 U	<0.0526 U	<0.0569 U	<0.0486 U	<0.05 U	<0.0514 U	<0.0538 U	<0.0488 U	<0.0479 U	<0.0511 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	mg/kg	<0.0494 U	<0.0485 U	<0.0556 U	<0.0526 U	<0.0569 U	<0.0486 U	<0.05 U	<0.0514 U	<0.0538 U	<0.0488 U	<0.0479 U	<0.0511 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	mg/kg	<0.0494 U	<0.0485 U	<0.0556 U	<0.0526 U	<0.0569 U	<0.0486 U	<0.05 U	<0.0514 U	<0.0538 U	<0.0488 U	<0.0479 U	0.00925 J
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	mg/kg	<0.0494 U	<0.0485 U	<0.0556 U	<0.0526 U	<0.0569 U	<0.0486 U	<0.05 U	<0.0514 U	<0.0538 U	<0.0488 U	<0.0479 U	<0.0511 U
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	mg/kg	<0.0494 U	<0.0485 U	<0.0556 U	<0.0526 U	<0.0569 U	<0.0486 U	<0.05 U	<0.0514 U	<0.0538 U	<0.0488 U	<0.0479 U	<0.0511 U
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	mg/kg	<0.0494 U	<0.0485 U	<0.0556 U	<0.0526 U	<0.0569 U	<0.0486 U	<0.05 U	<0.0514 U	<0.0538 U	<0.0488 U	<0.0479 U	<0.0511 U
Total PCBs	1336-36-3	0.1	1	mg/kg	<0.0494 U	<0.0485 U	<0.0556 U	<0.0526 U	<0.0569 U	<0.0486 U	<0.05 U	<0.0514 U	<0.0538 U	<0.0488 U	<0.0479 U	0.00925 J
Metals																
Aluminum	7429-90-5	NS	NS	mg/kg	1,010	1,170	12,200	907	9,710	1,390	8,090	3,070	1,620	3,000	771	1,890
Antimony	7440-36-0	NS	NS	mg/kg	<4.06 U	<3.95 U	<4.47 U	<4.16 U	0.652 J	<4.12 U	0.683 J	<4.17 U	<4.14 U	<4.01 U	<3.98 U	<4.27 U
Arsenic	7440-38-2	13	16	mg/kg	0.697 J	0.65 J	4.83	0.718 J	5.7	0.75 J	3.5	1.42	1.93	2.07	0.52 J	1.28
Barium	7440-39-3	350	400	mg/kg	5.51	7.24	30	3.91	32.7	5.31	27.2	6.4	5.62	11.5	1.83	7.8
Beryllium	7440-41-7	7.2	72	mg/kg	0.2 J	0.214 J	0.397 J	0.181 J	0.239 J	0.086 J	0.188 J	0.242 J	0.243 J	0.124 J	0.048 J	0.111 J
Cadmium	7440-43-9	2.5	4.3	mg/kg	<0.813 U	<0.79 U	<0.894 U	<0.833 U	0.144 J	<0.824 U	0.203 J	<0.834 U	0.132 J	<0.802 U	<0.797 U	<0.853 U
Calcium	7440-70-2	NS	NS	mg/kg	1,300	106	1,050	158	882	234	854	33	60.5	13,800	32.9	5,590
Chromium, Hexavalent	18540-29-9	1	110	mg/kg	0.193 J	0.229 J	<0.911 U	<0.875 U	0.204 J	0.178 J	<0.873 U	0.295 J	0.196 J	0.343 J	0.173 J	0.244 J
Chromium, Total	7440-47-3	NS	110	mg/kg	5.07	3.77	16.2	3.86	9.88	2.55	8.95	4.2	12.6	12.2	1.54	9.94
Chromium, Trivalent	16065-83-1	30	180	mg/kg	4.88 J	3.54 J	16.2	3.86	9.68 J	2.37 J	8.95	3.9 J	12.4 J	11.8 J	1.37 J	9.7 J
Cobalt	7440-48-4	NS	NS	mg/kg	1.39 J	1.02 J	5.35	0.595 J	2.2	0.833 J	2.7	0.983 J	0.872 J	2.04	0.217 J	10.4
Copper	7440-50-8	50	270	mg/kg	2.88	2.4	14.2	3.93	9.37	2.99	7.02	2.78	2.52	4.98	0.745 J	22.2
Cyanide	57-12-5	27	27	mg/kg	<1.1 U	<1 U	<1.1 U	<1 U	<1.2 U	<0.97 U	<1 U	<1.1 U	<1 U	<0.96 U	<0.97 U	<1.1 U
Iron	7439-89-6	NS	NS	mg/kg	4,010	4,140	15,900	3,180	13,400	2,740	11,200	4,890	7,520	5,640	1,330	8,240
Lead	7439-92-1	63	400	mg/kg	1.13 J	1.29 J	14.4	1.39 J	18.8	1.29 J	22.4	1.44 J	1.81 J	3.02 J	0.548 J	44
Magnesium	7439-95-4	NS	NS	mg/kg	1,090	359	1,910	268	995	373	1,090	184	261	9,000	87.3	352
Manganese	7439-96-5	1600	2000	mg/kg	170	53.8	178	16	283	25.3	114	49.5	35.1	103	13.4	64.8
Mercury	7439-97-6	0.18	0.81	mg/kg	<0.076 U	<0.072 U	0.079 J	<0.077 U	0.125	<0.078 U	<0.075 U	<0.079 U	<0.069 U	<0.071 U	<0.069 U	<0.071 U
Nickel	7440-02-0	30	310	mg/kg	3.54	2.15	8.94	1.47 J	3.69	2.12	4.36	2.65	3.94	4.35	0.534 J	7.47
Potassium	7440-09-7	NS	NS	mg/kg	151 J	224	303	127 J	246	189 J	346	121 J	127 J	319	62.1 J	158 J
Selenium	7782-49-2	3.9	180	mg/kg	<1.62 U	<1.58 U	0.562 J	<1.66 U	<1.84 U	<1.65 U	<1.69 U	<1.67 U	<1.65 U	0.299 J	<1.59 U	<1.71 U
Silver	7440-22-4	2	180	mg/kg	<0.406 U	<0.395 U	<0.447 U	0.7	<0.459 U	<0.412 U	<0.423 U	<0.417 U	<0.414 U	<0.401 U	<0.398 U	<0.427 U
Sodium	7440-23-5	NS	NS	mg/kg	18.7 J	17.7 J	187	14.2 J	264	87.2 J	367	11.2 J	11.6 J	57.8 J	40.9 J	54.9 J
Thallium	7440-28-0	NS	NS	mg/kg	<1.62 U	<1.58 U	0.579 J	<1.66 U	<1.84 U	<1.65 U	<1.69 U	<1.67 U	<1.65 U	0.365 J	<1.59 U	<1.71 U
Vanadium	7440-62-2	NS	NS	mg/kg	2.76	3	22.5	2.42	17	3.41	16.2	4.02	4.88	8.7	1.52	4.33
Zinc	7440-66-6	109	10000	mg/kg	6.81	4.34	22.8	4.26	18.9	5.21	20.2	6.06	6.53	8.1	1.47 J	34.2
General Chemistry																
Total Solids	TSOLID	NS	NS	Percent	93.2	96.2	87.8	91.4	83.4	95.3	91.6	91.6	91.8	96.2	98.2	90

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Sands New York
1255 Hempstead Turnpike
Uniondale, New York
Langan Project No.: 170754501

Notes:

CAS - Chemical Abstract Service
NS - No standard
mg/kg - milligram per kilogram
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use and Restricted Use Restricted-Residential Soil Cleanup Objectives (SCO).
Criterion comparisons for 3- & 4-methylphenol (m&p cresol) are provided for reference. Promulgated SCOs are for 3-methylphenol (m-cresol) and 4-methylphenol (p-cresol).

Qualifiers:

I - The lower value for the two columns has been reported due to obvious interference.
J - The analyte was detected above the method detection limit (MDL), but below the RL; therefore, the result is an estimated concentration.
P - The relative percent difference (RPD) between the results for the two columns exceeds the method-specified criteria.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

Exceedance Summary:

10 - Result exceeds Unrestricted Use SCOs
10 - Result exceeds Restricted Use Restricted-Residential SCOs

Table 3
Phase II Environmental Site Investigation Report
Groundwater Sample Analytical Results

Sands New York
1255 Hempstead Turnpike
Uniondale, New York
Langan Project No.: 170754501

Analyte	CAS Number	NYSDEC SGVs	Location	TMW11	TMW14	TMW16	TMW16	TMW18
			Sample Name	TMW11_072123	TMW14_072123	TMW16_072023	GWDUP02_072023	TMW18_072023
			Sample Date	07/21/2023	07/21/2023	07/20/2023	07/20/2023	07/20/2023
			Unit	Result	Result	Result	Result	Result
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,1,1-Trichloroethane	71-55-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2-Trichloroethane	79-00-5	1	ug/l	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U
1,1-Dichloroethane	75-34-3	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,1-Dichloroethene	75-35-4	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-Dichloropropene	563-58-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
1,2-Dichlorobenzene	95-50-1	3	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2-Dichloroethane	107-06-2	0.6	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-Dichloropropane	78-87-5	1	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,3-Dichlorobenzene	541-73-1	3	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,3-Dichloropropane	142-28-9	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,4-Dichlorobenzene	106-46-7	3	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,4-Diethyl Benzene	105-05-5	NS	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.35	ug/l	<250 U	<250 U	<250 U	<250 U	<250 U
2,2-Dichloropropane	594-20-7	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-Chlorotoluene	95-49-8	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-Hexanone (MBK)	591-78-6	50	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
4-Chlorotoluene	106-43-4	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
4-Ethyltoluene	622-96-8	NS	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
Acetone	67-64-1	50	ug/l	<5 U	1.7 J	2 J	2 J	3.4 J
Acrylonitrile	107-13-1	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Benzene	71-43-2	1	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Bromobenzene	108-86-1	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Bromochloromethane	74-97-5	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Bromodichloromethane	75-27-4	50	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Bromoform	75-25-2	50	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
Bromomethane	74-83-9	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Carbon Disulfide	75-15-0	60	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Carbon Tetrachloride	56-23-5	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Chlorobenzene	108-90-7	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Chloroethane	75-00-3	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Chloroform	67-66-3	7	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	1.9 J
Chloromethane	74-87-3	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Cis-1,2-Dichloroethene	156-59-2	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Cymene	99-87-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Dibromochloromethane	124-48-1	50	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Dibromomethane	74-95-3	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Dichlorodifluoromethane	75-71-8	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Diethyl Ether (Ethyl Ether)	60-29-7	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Ethylbenzene	100-41-4	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Hexachlorobutadiene	87-68-3	0.5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Isopropylbenzene (Cumene)	98-82-8	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
M,P-Xylene	179601-23-1	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Methylene Chloride	75-09-2	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Naphthalene	91-20-3	10	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
n-Butylbenzene	104-51-8	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
n-Propylbenzene	103-65-1	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Sec-Butylbenzene	135-98-8	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Styrene	100-42-5	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
T-Butylbenzene	98-06-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Tert-Butyl Methyl Ether	1634-04-4	10	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Tetrachloroethene (PCE)	127-18-4	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Toluene	108-88-3	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Total 1,2-Dichloroethene (Cis and Trans)	540-59-0	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Total Xylenes	1330-20-7	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	0.4	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trans-1,2-Dichloroethene	156-60-5	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trans-1,4-Dichloro-2-Butene	110-57-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Trichloroethene (TCE)	79-01-6	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trichlorofluoromethane	75-69-4	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Vinyl Acetate	108-05-4	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Vinyl Chloride	75-01-4	2	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U

Table 3
Phase II Environmental Site Investigation Report
Groundwater Sample Analytical Results

Sands New York
1255 Hempstead Turnpike
Uniondale, New York
Langan Project No.: 170754501

Analyte	CAS Number	NYSDEC SGVs	Location	TMW11	TMW14	TMW16	TMW16	TMW18
			Sample Name	TMW11_072123	TMW14_072123	TMW16_072023	GWDUP02_072023	TMW18_072023
			Sample Date	07/21/2023	07/21/2023	07/20/2023	07/20/2023	07/20/2023
			Unit	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds								
1,2,4,5-Tetrachlorobenzene	95-94-3	5	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
1,2-Dichlorobenzene	95-50-1	3	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
1,3-Dichlorobenzene	541-73-1	3	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
1,4-Dichlorobenzene	106-46-7	3	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
2,4,5-Trichlorophenol	95-95-4	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
2,4,6-Trichlorophenol	88-06-2	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
2,4-Dichlorophenol	120-83-2	1	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
2,4-Dimethylphenol	105-67-9	1	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
2,4-Dinitrophenol	51-28-5	1	ug/l	<20 U	<20 U	<20 U	<20 U	<20 U
2,4-Dinitrotoluene	121-14-2	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
2,6-Dinitrotoluene	606-20-2	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
2-Chloronaphthalene	91-58-7	10	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
2-Chlorophenol	95-57-8	NS	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
2-Methylnaphthalene	91-57-6	NS	ug/l	<0.1 U	<0.1 U	0.21	0.15	<0.1 U
2-Methylphenol (o-Cresol)	95-48-7	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
2-Nitroaniline	88-74-4	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
2-Nitrophenol	88-75-5	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
3,3'-Dichlorobenzidine	91-94-1	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
3-Nitroaniline	99-09-2	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
4-Chloro-3-Methylphenol	59-50-7	NS	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
4-Chloroaniline	106-47-8	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
4-Nitroaniline	100-01-6	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
4-Nitrophenol	100-02-7	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U
Acenaphthene	83-32-9	20	ug/l	<0.1 U	<0.1 U	0.05 J	<0.1 U	<0.1 U
Acenaphthylene	208-96-8	NS	ug/l	<0.1 U	<0.1 U	0.04 J	0.06 J	<0.1 U
Acetophenone	98-86-2	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Anthracene	120-12-7	50	ug/l	<0.1 U	<0.1 U	0.02 J	0.02 J	<0.1 U
Benzo(a)anthracene	56-55-3	**0.002**	ug/l	<0.1 U	<0.1 U	**0.08 J**	**0.06 J**	<0.1 U
Benzo(a)pyrene	50-32-8	0	ug/l	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U
Benzo(b)fluoranthene	205-99-2	0.002	ug/l	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U
Benzo(g,h,i)Perylene	191-24-2	NS	ug/l	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U
Benzo(k)fluoranthene	207-08-9	**0.002**	ug/l	<0.1 U	<0.1 U	<0.1 U	**0.01 J**	<0.1 U
Benzoic Acid	65-85-0	NS	ug/l	<50 U	<50 U	<50 U	<50 U	<50 U
Benzyl Alcohol	100-51-6	NS	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
Benzyl Butyl Phthalate	85-68-7	50	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Biphenyl (Diphenyl)	92-52-4	5	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
Bis(2-chloroethoxy) methane	111-91-1	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	1	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
Bis(2-chloroisopropyl) ether	108-60-1	5	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
Bis(2-ethylhexyl) phthalate	117-81-7	5	ug/l	<3 U	<3 U	<3 U	<3 U	<3 U
Carbazole	86-74-8	NS	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
Chrysene	218-01-9	0.002	ug/l	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U
Dibenz(a,h)anthracene	53-70-3	NS	ug/l	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U
Dibenzofuran	132-64-9	NS	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
Dibutyl phthalate	84-74-2	50	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Diethyl phthalate	84-66-2	50	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Dimethyl phthalate	131-11-3	50	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Dioctyl phthalate	117-84-0	50	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Fluoranthene	206-44-0	50	ug/l	<0.1 U	<0.1 U	0.07 J	0.04 J	<0.1 U
Fluorene	86-73-7	50	ug/l	<0.1 U	<0.1 U	0.06 J	0.03 J	<0.1 U
Hexachlorobenzene	118-74-1	0.04	ug/l	<0.8 U	<0.8 U	0.01 J	<0.8 U	<0.8 U
Hexachlorobutadiene	87-68-3	0.5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Hexachlorocyclopentadiene	77-47-4	5	ug/l	<20 U	<20 U	<20 U	<20 U	<20 U
Hexachloroethane	67-72-1	5	ug/l	<0.8 U	<0.8 U	<0.8 U	<0.8 U	<0.8 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	ug/l	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U
Isophorone	78-59-1	50	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Naphthalene	91-20-3	10	ug/l	0.05 J	0.09 J	1.9	1.4	<0.1 U
Nitrobenzene	98-95-3	0.4	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
n-Nitrosodiphenylamine	86-30-6	50	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U
Pentachlorophenol	87-86-5	1	ug/l	<0.8 U	0.1 J	<0.8 U	<0.8 U	<0.8 U
Phenanthrene	85-01-8	50	ug/l	<0.1 U	<0.1 U	0.1 J	0.06 J	<0.1 U
Phenol	108-95-2	1	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Pyrene	129-00-0	50	ug/l	<0.1 U	<0.1 U	0.11	<0.1 U	<0.1 U

Table 3
Phase II Environmental Site Investigation Report
Groundwater Sample Analytical Results

Sands New York
1255 Hempstead Turnpike
Uniondale, New York
Langan Project No.: 170754501

Analyte	CAS Number	NYSDEC SGVs	Location	TMW11	TMW14	TMW16	TMW16	TMW18
			Sample Name	TMW11_072123	TMW14_072123	TMW16_072023	GWDUP02_072023	TMW18_072023
			Sample Date	07/21/2023	07/21/2023	07/20/2023	07/20/2023	07/20/2023
			Unit	Result	Result	Result	Result	Result
Pesticides								
4,4'-DDD	72-54-8	0.3	ug/l	<0.029 U	<0.029 U	<0.029 U	<0.029 U	<0.029 U
4,4'-DDE	72-55-9	0.2	ug/l	<0.029 U	<0.029 U	<0.029 U	<0.029 U	<0.029 U
4,4'-DDT	50-29-3	0.2	ug/l	<0.029 U	<0.029 U	<0.029 U	<0.029 U	<0.029 U
Aldrin	309-00-2	0	ug/l	<0.014 U	<0.014 U	<0.014 U	<0.014 U	<0.014 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.01	ug/l	<0.014 U	<0.014 U	<0.014 U	<0.014 U	<0.014 U
Alpha Chlordane	5103-71-9	NS	ug/l	<0.014 U	<0.014 U	<0.014 U	<0.014 U	<0.014 U
Alpha Endosulfan	959-98-8	NS	ug/l	<0.014 U	<0.014 U	<0.014 U	<0.014 U	<0.014 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.04	ug/l	<0.014 U	<0.014 U	<0.014 U	<0.014 U	<0.014 U
Beta Endosulfan	33213-65-9	NS	ug/l	<0.029 U	<0.029 U	<0.029 U	<0.029 U	<0.029 U
Chlordane (alpha and gamma)	57-74-9	0.05	ug/l	<0.143 U	<0.143 U	<0.143 U	<0.143 U	<0.143 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	ug/l	<0.014 U	<0.014 U	<0.014 U	<0.014 U	<0.014 U
Dieldrin	60-57-1	0.004	ug/l	<0.029 U	<0.029 U	<0.029 U	<0.029 U	<0.029 U
Endosulfan Sulfate	1031-07-8	NS	ug/l	<0.029 U	<0.029 U	<0.029 U	<0.029 U	<0.029 U
Endrin	72-20-8	0	ug/l	<0.029 U	<0.029 U	<0.029 U	<0.029 U	<0.029 U
Endrin Aldehyde	7421-93-4	5	ug/l	<0.029 U	<0.029 U	<0.029 U	<0.029 U	<0.029 U
Endrin Ketone	53494-70-5	5	ug/l	<0.029 U	<0.029 U	<0.029 U	<0.029 U	<0.029 U
Gamma Bhc (Lindane)	58-89-9	0.05	ug/l	<0.014 U	<0.014 U	<0.014 U	<0.014 U	<0.014 U
Gamma Chlordane (Trans)	5103-74-2	NS	ug/l	<0.014 U	<0.014 U	<0.014 U	<0.014 U	<0.014 U
Heptachlor	76-44-8	0.04	ug/l	<0.014 U	<0.014 U	<0.014 U	<0.014 U	<0.014 U
Heptachlor Epoxide	1024-57-3	0.03	ug/l	<0.014 U	<0.014 U	<0.014 U	<0.014 U	<0.014 U
Methoxychlor	72-43-5	35	ug/l	<0.143 U	<0.143 U	<0.143 U	<0.143 U	<0.143 U
Toxaphene	8001-35-2	0.06	ug/l	<0.143 U	<0.143 U	<0.143 U	<0.143 U	<0.143 U
Polychlorinated Biphenyl								
PCB-1016 (Aroclor 1016)	12674-11-2	NS	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U
PCB-1262 (Aroclor 1262)	37324-23-5	NS	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U
PCB-1268 (Aroclor 1268)	11100-14-4	NS	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U
Total PCBs	1336-36-3	0.09	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U
Metals - Dissolved								
Aluminum	7429-90-5	NS	ug/l	254	22	5.64 J	3.6 J	4.69 J
Antimony	7440-36-0	3	ug/l	<4 U	0.5 J	<4 U	<4 U	<4 U
Arsenic	7440-38-2	25	ug/l	0.42 J	0.57	<0.5 U	<0.5 U	0.17 J
Barium	7440-39-3	1000	ug/l	80.88	94.05	92.94	90.37	172.6
Beryllium	7440-41-7	3	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Cadmium	7440-43-9	5	ug/l	0.06 J	0.06 J	0.07 J	0.06 J	<0.2 U
Calcium	7440-70-2	NS	ug/l	26,700	31,500	33,700	33,100	30,200
Chromium, Total	7440-47-3	50	ug/l	0.89 J	0.42 J	0.2 J	0.18 J	0.22 J
Cobalt	7440-48-4	NS	ug/l	2.62	6.48	3.88	3.59	8.77
Copper	7440-50-8	200	ug/l	1.99	2.68	1.22	1.63	1.38
Iron	7439-89-6	**300**	ug/l	**425**	**6,920**	**1,230**	**1,140**	**2,270**
Lead	7439-92-1	25	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U
Magnesium	7439-95-4	35000	ug/l	8,600	8,400	9,840	10,200	6,560
Manganese	7439-96-5	**300**	ug/l	**1,615**	**451.8**	**410**	**426.2**	**718.8**
Mercury	7439-97-6	0.7	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Nickel	7440-02-0	100	ug/l	5.9	24.06	10.41	9.24	8.79
Potassium	7440-09-7	NS	ug/l	2,860	3,350	3,510	3,560	3,070
Selenium	7782-49-2	10	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Silver	7440-22-4	50	ug/l	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U
Sodium	7440-23-5	**20000**	ug/l	**106,000**	**103,000**	**606,000**	**543,000**	**232,000**
Thallium	7440-28-0	0.5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U
Vanadium	7440-62-2	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Zinc	7440-66-6	2000	ug/l	8.37 J	5.46 J	4.68 J	4.95 J	<10 U
Metals - Total								
Aluminum	7429-90-5	NS	ug/l	140,000	67,000	186	153	188
Antimony	7440-36-0	3	ug/l	<4 U	0.81 J	<4 U	<4 U	<4 U
Arsenic	7440-38-2	25	ug/l	15.42	16.74	0.18 J	0.2 J	0.28 J
Barium	7440-39-3	1000	ug/l	377.5	375.5	84.45	85.32	168.7
Beryllium	7440-41-7	3	ug/l	2.41	1.37	<0.5 U	<0.5 U	<0.5 U
Cadmium	7440-43-9	5	ug/l	0.39	0.43	0.07 J	0.06 J	0.07 J
Calcium	7440-70-2	NS	ug/l	7,140	25,800	29,700	32,100	26,900
Chromium, Hexavalent	18540-29-9	50	ug/l	<10 U	<10 U	3 J	<10 U	<10 U
Chromium, Total	7440-47-3	NS	ug/l	210.4	290.1	0.66 J	0.56 J	1.1
Chromium, Trivalent	16065-83-1	NS	ug/l	210	290	<10 U	<10 U	<10 U
Cobalt	7440-48-4	NS	ug/l	25.98	18.5	3.26	3.08	8.04
Copper	7440-50-8	200	ug/l	69.32	141	1.39	1.31	1.72
Cyanide	57-12-5	200	ug/l	<5 U	1 J	<5 U	<5 U	5
Iron	7439-89-6	**300**	ug/l	**123,000**	**68,000**	**1,180**	**1,120**	**2,240**
Lead	7439-92-1	**25**	ug/l	**97.76**	**39.56**	<1 U	<1 U	<1 U
Magnesium	7439-95-4	35000	ug/l	14,800	10,600	8,710	9,440	6,010
Manganese	7439-96-5	**300**	ug/l	**2,291**	**1,125**	**386.1**	**401.7**	**652.4**
Mercury	7439-97-6	0.7	ug/l	0.68	0.53	0.12 J	0.19 J	0.14 J
Nickel	7440-02-0	100	ug/l	98.32	96.04	7.58	7.56	8.37
Potassium	7440-09-7	NS	ug/l	9,070	5,910	3,100	3,280	2,670
Selenium	7782-49-2	**10**	ug/l	**53.7**	**30**	<5 U	<5 U	<5 U
Silver	7440-22-4	50	ug/l	0.35 J	8.55	<0.4 U	<0.4 U	<0.4 U
Sodium	7440-23-5	**20000**	ug/l	**51,100**	**79,900**	**434,000**	**426,000**	**198,000**
Thallium	7440-28-0	**0.5**	ug/l	**2.18**	**0.65 J**	<1 U	<1 U	<1 U
Vanadium	7440-62-2	NS	ug/l	112.2	46.06	<5 U	<5 U	<5 U
Zinc	7440-66-6	2000	ug/l	140.6	101.8	5.03 J	4.89 J	<10 U

Sands New York
1255 Hempstead Turnpike
Uniondale, New York
Langan Project No.: 170754501

Notes:

CAS - Chemical Abstract Service
NS - No standard
ug/l - microgram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 Codes, Rules, and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operation Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water and published addenda (herein collectively referenced as "NYSDEC SGVs").

Qualifiers:

J - The analyte was detected above the method detection limit (MDL), but below the RL; therefore, the result is an estimated concentration.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

Exceedance Summary:

10 - Result exceeds NYSDEC SGVs

Table 4
Phase II Environmental Site Investigation Report
Soil Vapor Sample Analytical Results - NYSDOH

Sands New York
1255 Hempstead Turnpike
Uniondale, New York
Langan Project No.: 170754501

Analyte	CAS Number	NYSDOH Decision Matrices Minimum Concentrations	Location	AA02	SV11	SV12	SV15	SV17	SV18
			Sample Name	AA02_072023	SV11_072023	SV12_072023	SV15_072023	SV17_072023	SV18_072023
			Sample Date	07/20/2023	07/20/2023	07/20/2023	07/20/2023	07/20/2023	07/20/2023
			Sample Type	AA	SV	SV	SV	SV	SV
			Unit	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds									
1,1,1-Trichloroethane	71-55-6	100	ug/m3	<1.09 U	<0.546 U	<1.09 U	<1.09 U	<1.09 U	<1.17 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	ug/m3	<1.37 U	<6.87 U	<1.37 U	<1.37 U	<1.37 U	<1.48 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	ug/m3	<1.53 U	<7.66 U	<1.53 U	<1.53 U	<1.53 U	<1.65 U
1,1,2-Trichloroethane	79-00-5	NS	ug/m3	<1.09 U	<5.46 U	<1.09 U	<1.09 U	<1.09 U	<1.17 U
1,1-Dichloroethane	75-34-3	NS	ug/m3	<0.809 U	<4.05 U	<0.809 U	<0.809 U	<0.809 U	<0.87 U
1,1-Dichloroethene	75-35-4	6	ug/m3	<0.793 U	<0.396 U	<0.793 U	<0.793 U	<0.793 U	<0.852 U
1,2,4-Trichlorobenzene	120-82-1	NS	ug/m3	<1.48 U	<7.42 U	<1.48 U	<1.48 U	<1.48 U	<1.6 U
1,2,4-Trimethylbenzene	95-63-6	NS	ug/m3	<0.983 U	32.2	57.5	40.7	57	88
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	ug/m3	<1.54 U	<7.69 U	<1.54 U	<1.54 U	<1.54 U	<1.65 U
1,2-Dichlorobenzene	95-50-1	NS	ug/m3	<1.2 U	<6.01 U	<1.2 U	<1.2 U	<1.2 U	<1.29 U
1,2-Dichloroethane	107-06-2	NS	ug/m3	<0.809 U	<4.05 U	<0.809 U	<0.809 U	<0.809 U	<0.87 U
1,2-Dichloropropane	78-87-5	NS	ug/m3	<0.924 U	<4.62 U	<0.924 U	<0.924 U	<0.924 U	<0.994 U
1,2-Dichlorotetrafluoroethane	76-14-2	NS	ug/m3	<1.4 U	<6.99 U	<1.4 U	<1.4 U	<1.4 U	<1.5 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	NS	ug/m3	<0.983 U	7.77	15.3	9.64	14.5	21.8
1,3-Butadiene	106-99-0	NS	ug/m3	<0.442 U	9.51	14.1	<0.442 U	<0.442 U	4.45
1,3-Dichlorobenzene	541-73-1	NS	ug/m3	<1.2 U	56.6	<1.2 U	<1.2 U	<1.2 U	<1.29 U
1,4-Dichlorobenzene	106-46-7	NS	ug/m3	<1.2 U	<6.01 U	<1.2 U	<1.2 U	<1.2 U	<1.29 U
1,4-Dioxane (P-Dioxane)	123-91-1	NS	ug/m3	<0.721 U	<3.6 U	<0.721 U	<0.721 U	<0.721 U	<0.775 U
2,2,4-Trimethylpentane	540-84-1	NS	ug/m3	<0.934 U	7.1	3.72	1.17	2.84	2.56
2-Hexanone (MBK)	591-78-6	NS	ug/m3	<0.82 U	6.31	13.7	12.6	9.34	15.5
4-Ethyltoluene	622-96-8	NS	ug/m3	<0.983 U	8.11	13	8.6	16.3	21.7
Acetone	67-64-1	NS	ug/m3	10.7	2,540	1,020	858	1,120	948
Allyl Chloride (3-Chloropropene)	107-05-1	NS	ug/m3	<0.626 U	<3.13 U	<0.626 U	<0.626 U	<0.626 U	<0.673 U
Benzene	71-43-2	NS	ug/m3	<0.639 U	6.77	12.2	1.16	4.89	6.1
Benzyl Chloride	100-44-7	NS	ug/m3	<1.04 U	<5.18 U	<1.04 U	<1.04 U	<1.04 U	<1.11 U
Bromodichloromethane	75-27-4	NS	ug/m3	<1.34 U	<6.7 U	<1.34 U	<1.34 U	<1.34 U	<1.44 U
Bromoethene	593-60-2	NS	ug/m3	<0.874 U	<4.37 U	<0.874 U	<0.874 U	<0.874 U	<0.94 U
Bromoform	75-25-2	NS	ug/m3	<2.07 U	<10.3 U	<2.07 U	<2.07 U	<2.07 U	<2.22 U
Bromomethane	74-83-9	NS	ug/m3	<0.777 U	<3.88 U	<0.777 U	<0.777 U	<0.777 U	<0.835 U
Carbon Disulfide	75-15-0	NS	ug/m3	<0.623 U	<3.11 U	3.77	<0.623 U	1.06	5.11
Carbon Tetrachloride	56-23-5	6	ug/m3	<1.26 U	<0.629 U	<1.26 U	<1.26 U	<1.26 U	<1.35 U
Chlorobenzene	108-90-7	NS	ug/m3	<0.921 U	<4.61 U	<0.921 U	<0.921 U	<0.921 U	<0.99 U
Chloroethane	75-00-3	NS	ug/m3	<0.528 U	<2.64 U	<0.528 U	<0.528 U	<0.528 U	<0.567 U
Chloroform	67-66-3	NS	ug/m3	<0.977 U	<4.88 U	<0.977 U	<0.977 U	<0.977 U	<1.05 U
Chloromethane	74-87-3	NS	ug/m3	0.995	11.9	0.43	<0.413 U	<0.413 U	<0.444 U
Cis-1,2-Dichloroethene	156-59-2	6	ug/m3	<0.793 U	<0.396 U	<0.793 U	<0.793 U	<0.793 U	<0.852 U
Cis-1,3-Dichloropropene	10061-01-5	NS	ug/m3	<0.908 U	<4.54 U	<0.908 U	<0.908 U	<0.908 U	<0.976 U
Cyclohexane	110-82-7	NS	ug/m3	<0.688 U	5.82	5.23	1.83	4.61	3.89
Dibromochloromethane	124-48-1	NS	ug/m3	<1.7 U	<8.52 U	<1.7 U	<1.7 U	<1.7 U	<1.83 U
Dichlorodifluoromethane	75-71-8	NS	ug/m3	2.27	<4.94 U	3.01	2.93	3.65	2.22
Ethanol	64-17-5	NS	ug/m3	<9.42 U	4,500	11.8	11.3	12.2	10.3
Ethyl Acetate	141-78-6	NS	ug/m3	<1.8 U	9.37	<1.8 U	<1.8 U	<1.8 U	<1.94 U
Ethylbenzene	100-41-4	NS	ug/m3	<0.869 U	30.5	40.3	15.2	34.3	39
Hexachlorobutadiene	87-68-3	NS	ug/m3	<2.13 U	<10.7 U	<2.13 U	<2.13 U	<2.13 U	<2.29 U
Isopropanol	67-63-0	NS	ug/m3	<1.23 U	300	4.38	4.97	4.4	4.15
M,P-Xylene	179601-23-1	NS	ug/m3	<1.74 U	119	150	66	136	157
Methyl Ethyl Ketone (2-Butanone)	78-93-3	NS	ug/m3	<1.47 U	109	43.1	43.6	33.6	51.6
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	ug/m3	<2.05 U	<10.2 U	<2.05 U	<2.05 U	<2.05 U	<2.2 U
Methylene Chloride	75-09-2	100	ug/m3	<1.74 U	<8.69 U	20.7	<1.74 U	2.23	2.6
n-Heptane	142-82-5	NS	ug/m3	<0.82 U	11.4	21.9	5.61	13.9	14.5
n-Hexane	110-54-3	NS	ug/m3	<0.705 U	12.4	20.4	2.35	7.89	9.59
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	ug/m3	<0.869 U	43.4	62.1	28	54.7	67.3
Styrene	100-42-5	NS	ug/m3	<0.852 U	4.85	2.16	1.11	2.14	2.27
Tert-Butyl Alcohol	75-65-0	NS	ug/m3	<1.52 U	68.8	6.09	3.46	5.67	4.85
Tert-Butyl Methyl Ether	1634-04-4	NS	ug/m3	<0.721 U	<3.61 U	<0.721 U	<0.721 U	<0.721 U	<0.775 U
Tetrachloroethene (PCE)	127-18-4	100	ug/m3	<1.36 U	1.63	6.36	7.8	5.47	7.46
Tetrahydrofuran	109-99-9	NS	ug/m3	<1.47 U	13.6	<1.47 U	<1.47 U	3.54	<1.59 U
Toluene	108-88-3	NS	ug/m3	<0.754 U	128	112	29.6	91.6	87.4
Total Xylenes	1330-20-7	NS	ug/m3	<0.869 U	163	213	94.3	190	225
Trans-1,2-Dichloroethene	156-60-5	NS	ug/m3	<0.793 U	<3.96 U	<0.793 U	<0.793 U	<0.793 U	<0.852 U
Trans-1,3-Dichloropropene	10061-02-6	NS	ug/m3	<0.908 U	<4.54 U	<0.908 U	<0.908 U	<0.908 U	<0.976 U
Trichloroethene (TCE)	79-01-6	6	ug/m3	<1.07 U	<0.537 U	3.06	<1.07 U	<1.07 U	<1.16 U
Trichlorofluoromethane	75-69-4	NS	ug/m3	1.17	8.09	8.37	1.81	2.11	3.1
Vinyl Chloride	75-01-4	6	ug/m3	<0.511 U	0.524	<0.511 U	<0.511 U	<0.511 U	<0.55 U
Total BTEX	BTEX	NS	ug/m3	ND	327.67	376.6	139.96	321.49	356.8
Total CVOCs	TOTAL CVOCS	NS	ug/m3	ND	2.154	30.12	7.8	7.7	10.06

Table 4
Phase II Environmental Site Investigation Report
Soil Vapor Sample Analytical Results - NYSDOH

Sands New York
1255 Hempstead Turnpike
Uniondale, New York
Langan Project No.: 170754501

Notes:

AA - Ambient Air
SV - Soil Vapor
CAS - Chemical Abstract Service
NS - No standard
ug/m3 - microgram per cubic meter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

Soil vapor sample analytical results are compared to the minimum soil vapor concentrations at which mitigation is recommended as set forth in the New York State Department of Health (NYSDOH) October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York Decision Matrices for Sub-Slab Vapor and Indoor Air and subsequent updates (2017).

Ambient air sample analytical results are shown for reference only.

Qualifiers:

U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

Exceedance Summary:

10 - Result exceeds minimum soil vapor concentrations recommending mitigation

Table 5
Phase II Environmental Site Investigation Report
Soil Vapor Sample Analytical Results - USEPA VISL

Sands New York
1255 Hempstead Turnpike
Uniondale, New York
Langan Project No.: 170754501

Analyte	CAS Number	USEPA VISL for Indoor Air - Commercial/Industrial	Location	AA02	SV11	SV12	SV15	SV17	SV18
			Sample Name	AA02_072023	SV11_072023	SV12_072023	SV15_072023	SV17_072023	SV18_072023
			Sample Date	07/20/2023	07/20/2023	07/20/2023	07/20/2023	07/20/2023	07/20/2023
			Sample Type	AA	SV	SV	SV	SV	SV
			Unit	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds									
1,1,1-Trichloroethane	71-55-6	730000	ug/m3	<1.09 U	<0.546 U	<1.09 U	<1.09 U	<1.09 U	<1.17 U
1,1,2,2-Tetrachloroethane	79-34-5	7.05	ug/m3	<1.37 U	<6.87 U	<1.37 U	<1.37 U	<1.37 U	<1.48 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	730000	ug/m3	<1.53 U	<7.66 U	<1.53 U	<1.53 U	<1.53 U	<1.65 U
1,1,2-Trichloroethane	79-00-5	25.6	ug/m3	<1.09 U	<5.46 U	<1.09 U	<1.09 U	<1.09 U	<1.17 U
1,1-Dichloroethane	75-34-3	256	ug/m3	<0.809 U	<4.05 U	<0.809 U	<0.809 U	<0.809 U	<0.87 U
1,1-Dichloroethene	75-35-4	29200	ug/m3	<0.793 U	<0.396 U	<0.793 U	<0.793 U	<0.793 U	<0.852 U
1,2,4-Trichlorobenzene	120-82-1	292	ug/m3	<1.48 U	<7.42 U	<1.48 U	<1.48 U	<1.48 U	<1.6 U
1,2,4-Trimethylbenzene	95-63-6	8760	ug/m3	<0.983 U	32.2	57.5	40.7	57	88
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.68	ug/m3	<1.54 U	<7.69 U	<1.54 U	<1.54 U	<1.54 U	<1.65 U
1,2-Dichlorobenzene	95-50-1	29200	ug/m3	<1.2 U	<6.01 U	<1.2 U	<1.2 U	<1.2 U	<1.29 U
1,2-Dichloroethane	107-06-2	15.7	ug/m3	<0.809 U	<4.05 U	<0.809 U	<0.809 U	<0.809 U	<0.87 U
1,2-Dichloropropane	78-87-5	110	ug/m3	<0.924 U	<4.62 U	<0.924 U	<0.924 U	<0.924 U	<0.994 U
1,2-Dichlorotetrafluoroethane	76-14-2	NS	ug/m3	<1.4 U	<6.99 U	<1.4 U	<1.4 U	<1.4 U	<1.5 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8760	ug/m3	<0.983 U	7.77	15.3	9.64	14.5	21.8
1,3-Butadiene	106-99-0	**13.6**	ug/m3	<0.442 U	9.51	**14.1**	<0.442 U	<0.442 U	4.45
1,3-Dichlorobenzene	541-73-1	NS	ug/m3	<1.2 U	56.6	<1.2 U	<1.2 U	<1.2 U	<1.29 U
1,4-Dichlorobenzene	106-46-7	37.2	ug/m3	<1.2 U	<6.01 U	<1.2 U	<1.2 U	<1.2 U	<1.29 U
1,4-Dioxane (P-Dioxane)	123-91-1	81.8	ug/m3	<0.721 U	<3.6 U	<0.721 U	<0.721 U	<0.721 U	<0.775 U
2,2,4-Trimethylpentane	540-84-1	NS	ug/m3	<0.934 U	7.1	3.72	1.17	2.84	2.56
2-Hexanone (MBK)	591-78-6	4380	ug/m3	<0.82 U	6.31	13.7	12.6	9.34	15.5
4-Ethyltoluene	622-96-8	NS	ug/m3	<0.983 U	8.11	13	8.6	16.3	21.7
Acetone	67-64-1	NS	ug/m3	10.7	2,540	1,020	858	1,120	948
Allyl Chloride (3-Chloropropene)	107-05-1	68.1	ug/m3	<0.626 U	<3.13 U	<0.626 U	<0.626 U	<0.626 U	<0.673 U
Benzene	71-43-2	52.4	ug/m3	<0.639 U	6.77	12.2	1.16	4.89	6.1
Benzyl Chloride	100-44-7	8.34	ug/m3	<1.04 U	<5.18 U	<1.04 U	<1.04 U	<1.04 U	<1.11 U
Bromodichloromethane	75-27-4	11	ug/m3	<1.34 U	<6.7 U	<1.34 U	<1.34 U	<1.34 U	<1.44 U
Bromoethene	593-60-2	27.3	ug/m3	<0.874 U	<4.37 U	<0.874 U	<0.874 U	<0.874 U	<0.94 U
Bromoform	75-25-2	372	ug/m3	<2.07 U	<10.3 U	<2.07 U	<2.07 U	<2.07 U	<2.22 U
Bromomethane	74-83-9	730	ug/m3	<0.777 U	<3.88 U	<0.777 U	<0.777 U	<0.777 U	<0.835 U
Carbon Disulfide	75-15-0	102000	ug/m3	<0.623 U	<3.11 U	3.77	<0.623 U	1.06	5.11
Carbon Tetrachloride	56-23-5	68.1	ug/m3	<1.26 U	<0.629 U	<1.26 U	<1.26 U	<1.26 U	<1.35 U
Chlorobenzene	108-90-7	7300	ug/m3	<0.921 U	<4.61 U	<0.921 U	<0.921 U	<0.921 U	<0.99 U
Chloroethane	75-00-3	584000	ug/m3	<0.528 U	<2.64 U	<0.528 U	<0.528 U	<0.528 U	<0.567 U
Chloroform	67-66-3	17.8	ug/m3	<0.977 U	<4.88 U	<0.977 U	<0.977 U	<0.977 U	<1.05 U
Chloromethane	74-87-3	13100	ug/m3	0.995	11.9	0.43	<0.413 U	<0.413 U	<0.444 U
Cis-1,2-Dichloroethene	156-59-2	5840	ug/m3	<0.793 U	<0.396 U	<0.793 U	<0.793 U	<0.793 U	<0.852 U
Cis-1,3-Dichloropropene	10061-01-5	NS	ug/m3	<0.908 U	<4.54 U	<0.908 U	<0.908 U	<0.908 U	<0.976 U
Cyclohexane	110-82-7	876000	ug/m3	<0.688 U	5.82	5.23	1.83	4.61	3.89
Dibromochloromethane	124-48-1	NS	ug/m3	<1.7 U	<8.52 U	<1.7 U	<1.7 U	<1.7 U	<1.83 U
Dichlorodifluoromethane	75-71-8	14600	ug/m3	2.27	<4.94 U	3.01	2.93	3.65	2.22
Ethanol	64-17-5	NS	ug/m3	<9.42 U	4,500	11.8	11.3	12.2	10.3
Ethyl Acetate	141-78-6	10200	ug/m3	<1.8 U	9.37	<1.8 U	<1.8 U	<1.8 U	<1.94 U
Ethylbenzene	100-41-4	164	ug/m3	<0.869 U	30.5	40.3	15.2	34.3	39
Hexachlorobutadiene	87-68-3	18.6	ug/m3	<2.13 U	<10.7 U	<2.13 U	<2.13 U	<2.13 U	<2.29 U
Isopropanol	67-63-0	29200	ug/m3	<1.23 U	300	4.38	4.97	4.4	4.15
M,P-Xylene	179601-23-1	NS	ug/m3	<1.74 U	119	150	66	136	157
Methyl Ethyl Ketone (2-Butanone)	78-93-3	730000	ug/m3	<1.47 U	109	43.1	43.6	33.6	51.6
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	438000	ug/m3	<2.05 U	<10.2 U	<2.05 U	<2.05 U	<2.05 U	<2.2 U
Methylene Chloride	75-09-2	40900	ug/m3	<1.74 U	<8.69 U	20.7	<1.74 U	2.23	2.6
n-Heptane	142-82-5	58400	ug/m3	<0.82 U	11.4	21.9	5.61	13.9	14.5
n-Hexane	110-54-3	102000	ug/m3	<0.705 U	12.4	20.4	2.35	7.89	9.59
o-Xylene (1,2-Dimethylbenzene)	95-47-6	14600	ug/m3	<0.869 U	43.4	62.1	28	54.7	67.3
Styrene	100-42-5	146000	ug/m3	<0.852 U	4.85	2.16	1.11	2.14	2.27
Tert-Butyl Alcohol	75-65-0	730000	ug/m3	<1.52 U	68.8	6.09	3.46	5.67	4.85
Tert-Butyl Methyl Ether	1634-04-4	1570	ug/m3	<0.721 U	<3.61 U	<0.721 U	<0.721 U	<0.721 U	<0.775 U
Tetrachloroethene (PCE)	127-18-4	1570	ug/m3	<1.36 U	1.63	6.36	7.8	5.47	7.46
Tetrahydrofuran	109-99-9	292000	ug/m3	<1.47 U	13.6	<1.47 U	<1.47 U	3.54	<1.59 U
Toluene	108-88-3	730000	ug/m3	<0.754 U	128	112	29.6	91.6	87.4
Total Xylenes	1330-20-7	14600	ug/m3	<0.869 U	163	213	94.3	190	225
Trans-1,2-Dichloroethene	156-60-5	5840	ug/m3	<0.793 U	<3.96 U	<0.793 U	<0.793 U	<0.793 U	<0.852 U
Trans-1,3-Dichloropropene	10061-02-6	NS	ug/m3	<0.908 U	<4.54 U	<0.908 U	<0.908 U	<0.908 U	<0.976 U
Trichloroethene (TCE)	79-01-6	99.7	ug/m3	<1.07 U	<0.537 U	3.06	<1.07 U	<1.07 U	<1.16 U
Trichlorofluoromethane	75-69-4	NS	ug/m3	1.17	8.09	8.37	1.81	2.11	3.1
Vinyl Chloride	75-01-4	92.9	ug/m3	<0.511 U	0.524	<0.511 U	<0.511 U	<0.511 U	<0.55 U

Table 5
Phase II Environmental Site Investigation Report
Soil Vapor Sample Analytical Results - USEPA VISL

Sands New York
1255 Hempstead Turnpike
Uniondale, New York
Langan Project No.: 170754501

Notes:

AA - Ambient Air
SV - Soil Vapor
USEPA - United States Environmental Protection Agency
VISL - Vapor Intrusion Screening Level
TCR - Target cancer risk
THQ - Target hazard quotient
CAS - Chemical Abstract Service
NS - No standard
ug/m3 - microgram per cubic meter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
Soil vapor results were compared to USEPA VISL Residential and Commercial/Industrial criteria using a TCR of 1x10-6 and a THQ of 1 (May 2023)
Ambient air sample analytical results are shown for reference only.

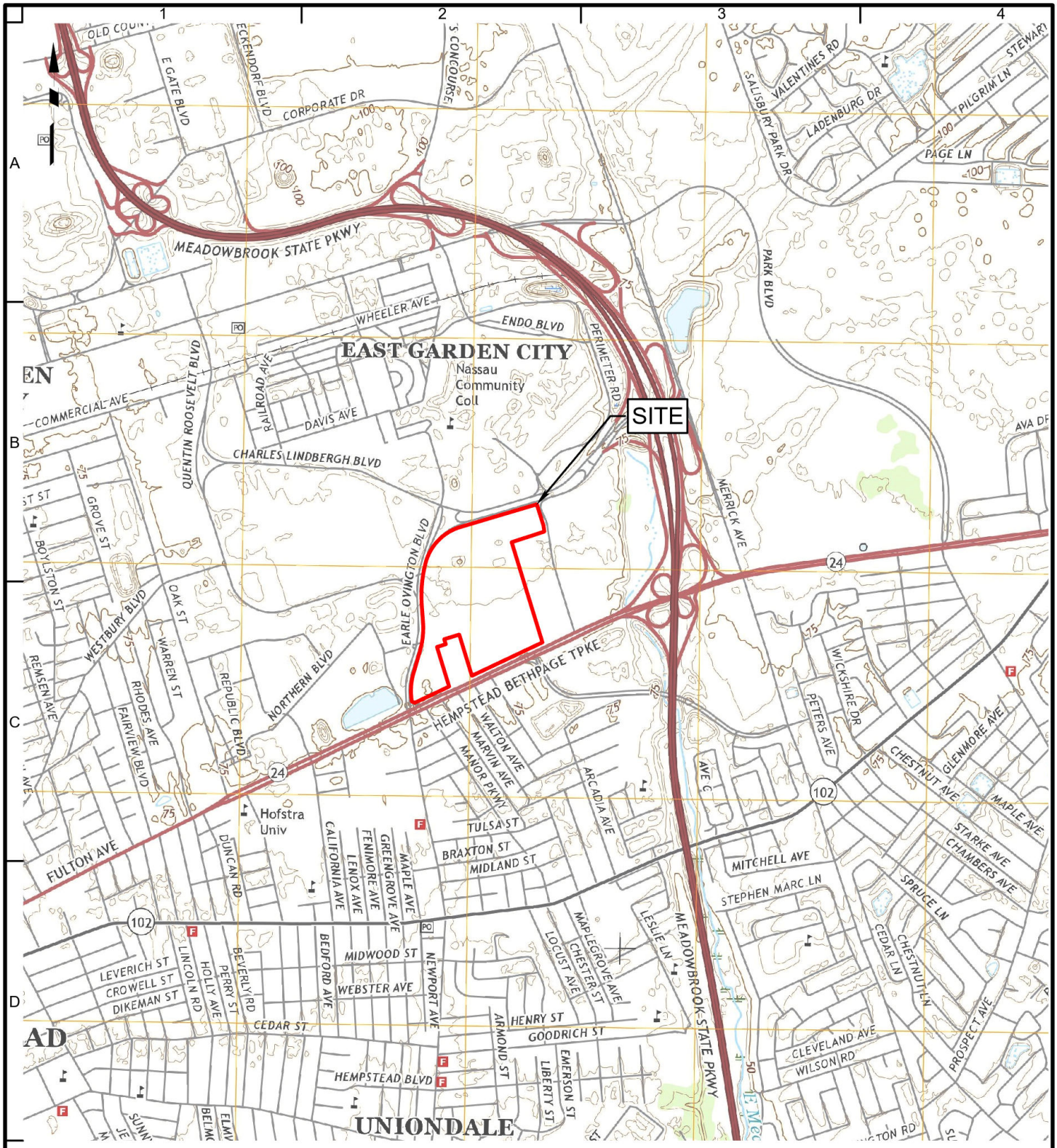
Qualifiers:

U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

Exceedance Summary:

10 - Result exceeds USEPA VISL for Indoor Air - Commercial/Industrial

FIGURES



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Approximate Subject Property Boundary

2,000 0 2,000

SCALE IN FEET

Notes:

1. Basemap adapted from United States Geological Survey (USGS) 7.5-Minute Series Topographical Maps, Freeport, New York, Quadrangle.

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Langan International LLC

Collectively known as Langan

Project	SANDS NEW YORK UNIONDALE NASSAU COUNTY NEW YORK
Figure Title	SITE LOCATION MAP
Project No.	170754501
Date	11/2/2023
Scale	1"=2,000'
Drawn By	MG
Submission Date	
Figure No.	1

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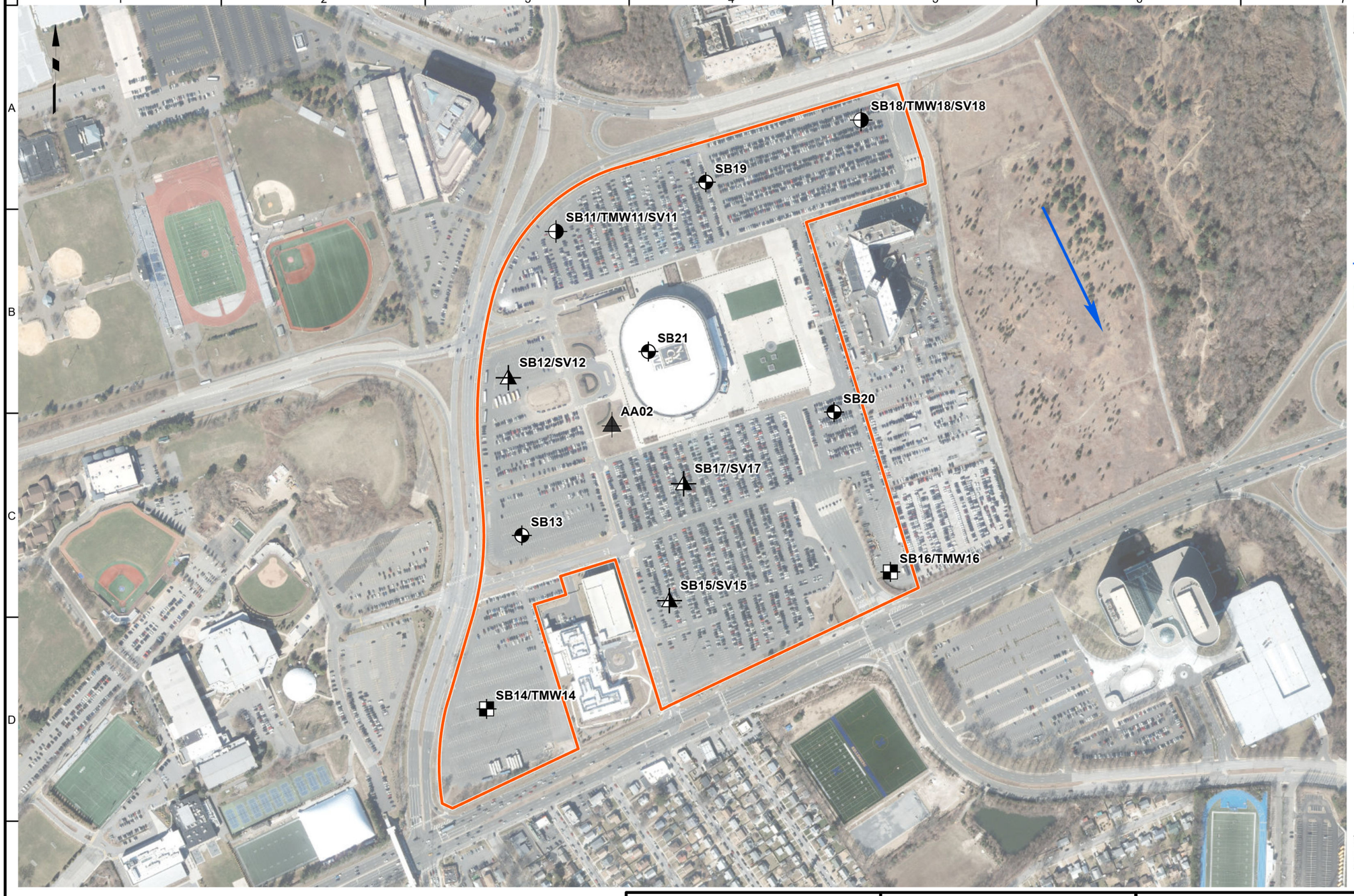

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- Approximate Ambient Air Sample Location and ID
- Approximate Soil Boring Location and ID
- Approximate Soil Boring/Soil Vapor Sample Location and ID
- Approximate Soil Boring/Temporary Monitoring Well Location and ID
- Approximate Soil Boring/Temporary Monitoring Well and Soil Vapor Sample Location and ID
- Inferred Groundwater Flow Direction
- Approximate Subject Property Boundary

Notes:
1. World aerial imagery basemap is provided through Langan's Esri and ArcGIS software licensing and ArcGIS online.
2. Parcel data provided by Nassau Country, Report All LLC, 2018.

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Project
SANDS NEW YORK
UNIONDALE
NASSAU COUNTY NEW YORK

Figure Title
SAMPLE LOCATION MAP

Project No. 170754501	Figure No. 2
Date 11/2/2023	
Scale 1"=400'	
Drawn By MG	

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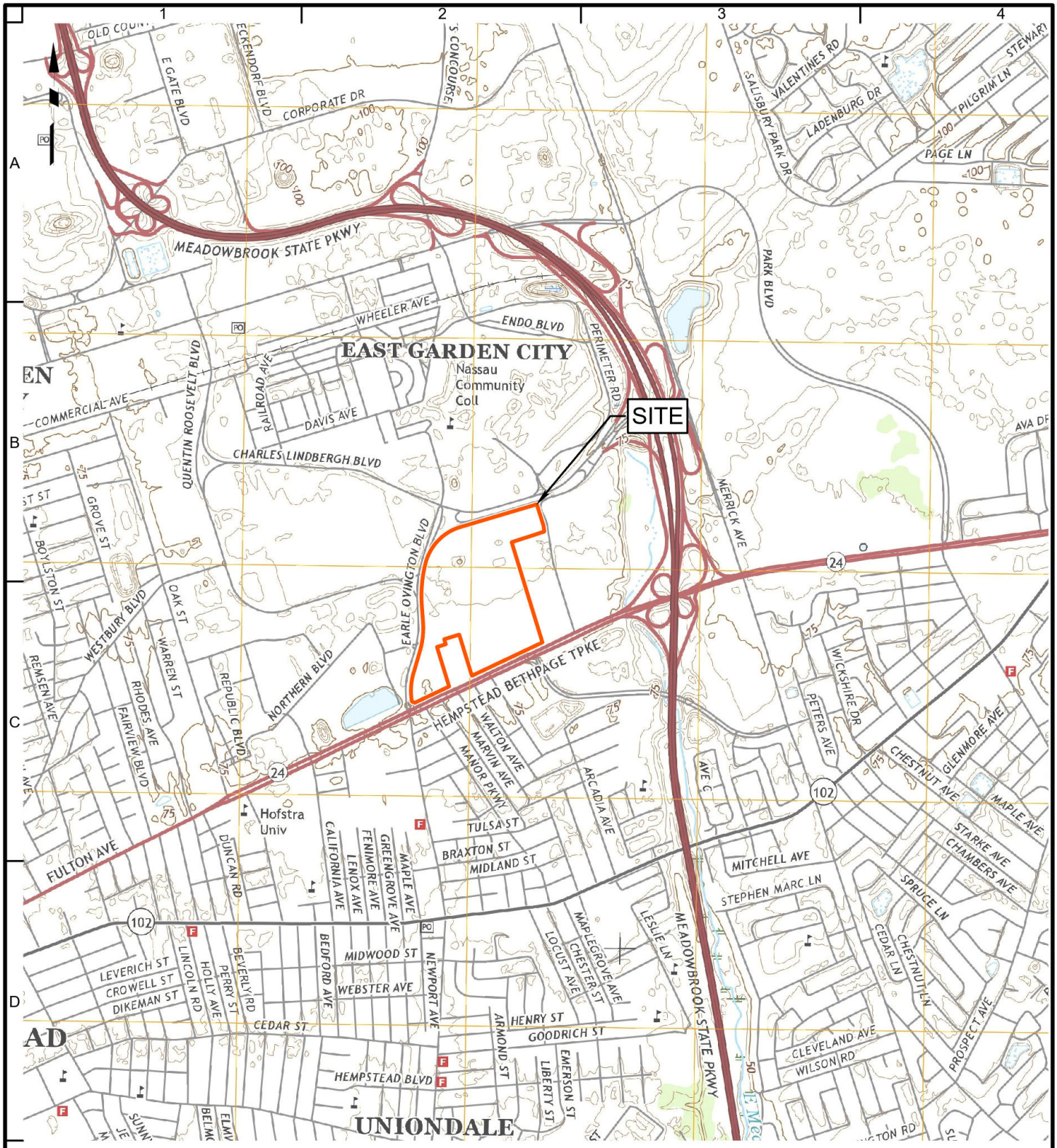

Legend

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1. Basemap adapted from United States Geological Survey (USGS) 7.5-Minute Series Topographical Maps, Freeport, New York, Quadrangle.

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Langan International LLC

Collectively known as Langan

Project	PROJECT MAXIMUS UNIONDALE NASSAU COUNTY NEW YORK
Figure Title	SITE LOCATION MAP
Project No.	170754501
Figure No.	1
Date	8/1/2023
Scale	1"=2,000'
Drawn By	MG
Submission Date	

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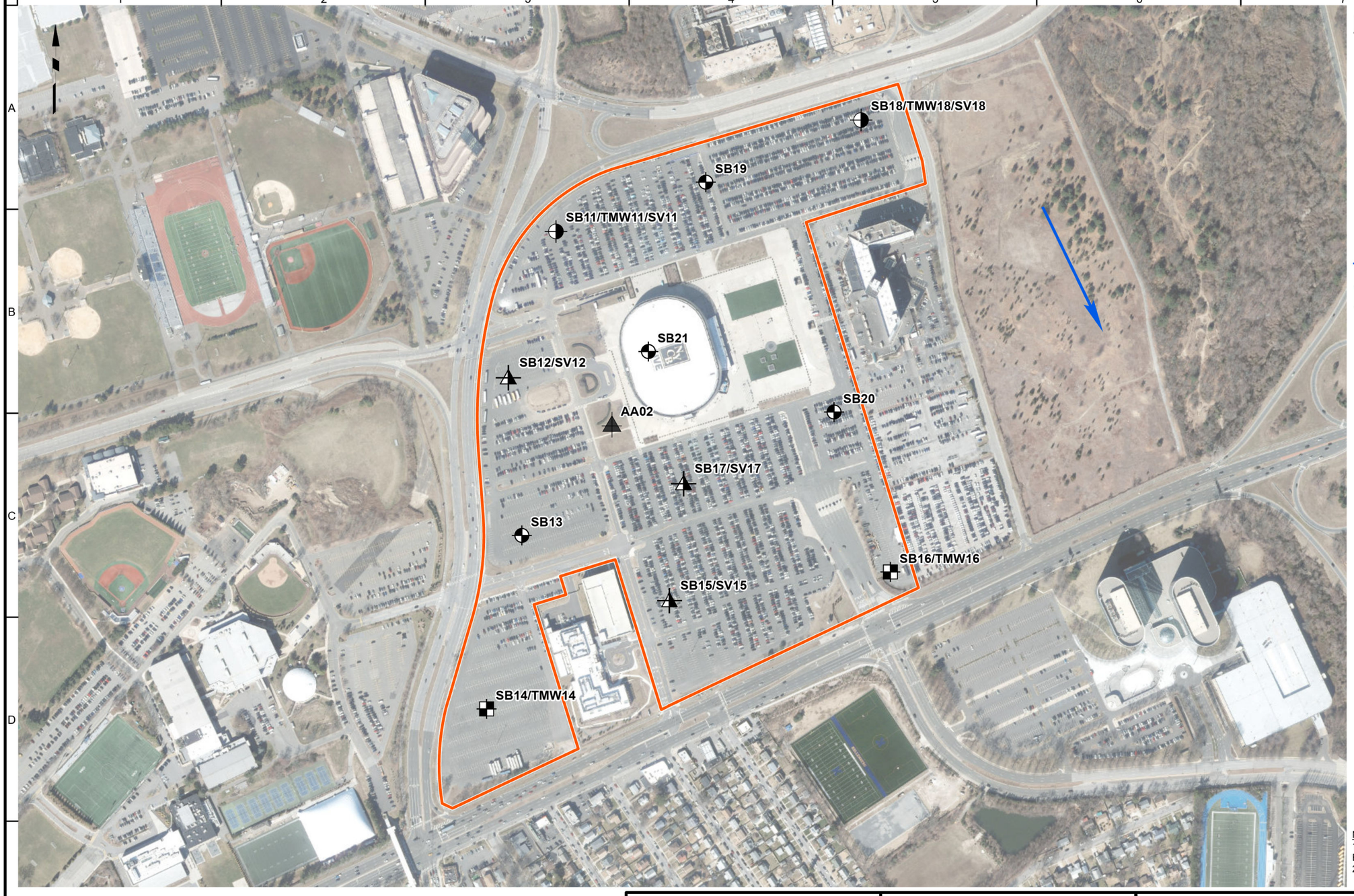

Legend

- Approximate Ambient Air Sample Location and ID
- Approximate Soil Boring Location and ID
- Approximate Soil Boring/Soil Vapor Sample Location and ID
- Approximate Soil Boring/Temporary Monitoring Well Location and ID
- Approximate Soil Boring/Temporary Monitoring Well and Soil Vapor Sample Location and ID
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Project
PROJECT MAXIMUS
UNIONDALE
NASSAU COUNTY NEW YORK

Figure Title
SAMPLE LOCATION MAP

Project No. 170754501	Figure No. 2
Date 8/14/2023	
Scale 1"=400'	
Drawn By MG	

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APPENDIX A

PREVIOUS REPORTS

FREUDENTHAL & ELKOWITZ CONSULTING GROUP, INC.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
OF
NASSAU VETERANS MEMORIAL COLISEUM
1255 HEMPSTEAD TURNPIKE
(a.k.a. NEW YORK STATE ROUTE 24 AND FULTON STREET)
HAMLET OF UNIONDALE
TOWN OF HEMPSTEAD
NASSAU COUNTY, NEW YORK

Prepared for:

Northern Bay Management Group, LLC
Suite 101
1600 Old Country Road
Plainview, New York 11803

Attn: Mr. William Schaefer

Prepared by:

Freudenthal & Elkowitz Consulting Group, Inc.
368 Veterans Memorial Highway
Commack, New York 11725
(631) 499-2222

March 2005

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Appendix E - Aerial Photographs
Appendix F - Historic Topographic Maps
Appendix G - Regulatory Information (USEPA, NYSDEC records) included in Environmental FirstSearch Report
Appendix H - Preparer Information

EXECUTIVE SUMMARY

This document is a Phase I ESA prepared by F&E to determine RECs and/or PECs for an approximately 83-acre parcel of land currently improved with the Nassau Veterans Memorial Coliseum (Nassau Coliseum) and associated asphalt-paved parking areas located at 1255 Hempstead Turnpike (a.k.a. New York State Route 24 and Fulton Street), Hamlet of Uniondale, Town of Hempstead, Nassau County, New York. The subject property is situated at an elevation of approximately 75-to-80-feet above msl and depth to groundwater is estimated to range from 30-to-35-feet bgs.

The subject property was improved as part of an army airfield as early as 1918. In 1947, seven sewage filter beds were visible at the southwestern corner of the subject property, proximate to Hempstead Turnpike. At least four settling tanks associated with the sewage treatment plant, are visible north of the filter beds on the subject property. One large and five small airplane runways, as well as associated taxi ways and aircraft aprons/pads, were present throughout the site. Mitchell Field was taken out-of-service prior to 1969.

By 1972, the existing Nassau Coliseum was constructed, and was reportedly connected to the municipal sewer system at the time of its construction. A 1,000-gallon diesel UST was reportedly installed in 1973 and removed in 1987 as a result of failing three tightness tests in 1987. Two NYSDEC Spill numbers were assigned to the failing of the tightness tests. A replacement 1,000-gallon diesel UST located south of the box office portion of the building, was installed prior to the removal of the leaking UST, which was apparently removed without appropriate regulatory oversight.

Nassau County Tax Map Section 44 – Block F – Lot No. 326 is owned by the County of Nassau and is also bounded by the same streets as the subject property. However, this parcel is considered an out-parcel and is not detailed within this Phase I ESA. According to Nassau County Tax Assessor Records, the out-parcel lot totals 8.3680-acres in size. The parcel is improved with a 184,448-s.f. hotel building constructed in circa 1982 (utilized as a Marriott Hotel). The building is reportedly owned and operated under a land-lease by Marriott International, Inc. while the property is owned by the County of Nassau. Again, the Marriott property (Lot No. 326) is not considered part of the subject property and is not detailed within this report.

The facility has been in consistent operation as a sports/concert/entertainment arena since its construction circa 1972. The portion of the property formerly containing the sewage treatment facility for Mitchell Field military air base were removed by 1969. This area was observed by F&E to be improved with an asphalt-paved parking area during the January 2005 site inspection.

This Phase I Environmental Site Assessment has been prepared in conformance with the scope and limitations of ASTM Practice E1527-00 for an approximately 83-acre parcel currently improved with the Nassau Veterans Memorial Coliseum (Nassau Coliseum) and associated asphalt-paved parking areas located at 1255 Hempstead Turnpike (a.k.a. New York State Route 24 and Fulton Street), Hamlet of Uniondale, Town of Hempstead, Nassau County, New York. Any exceptions to, or deletions from, this practice are described in the section of the report entitled Methodology. This assessment did not reveal recognized environmental conditions (as defined by ASTM Practice E1527) or potential environmental concerns for the subject property, with the exception of the following:

- As early as 1918, and until the 1960s, the subject property was utilized as a military air base. The sewage treatment beds associated with the facility were formerly situated at the southwestern-most portion of the subject property. Air bases typically utilize aviation fuel, jet fuel, as well as other associated petroleum products/solvents associated with the operation and maintenance of aircraft. The aforementioned petroleum products/solvents have the potential to have impacted soil and groundwater throughout the subject property as well as the bottom sediments within the former sewage treatment beds, as sanitary waste from the facility was historically discharged there;

- The final discharge point(s) for facility-derived stormwater could not be confirmed. Further, due to the NYSDEC Spill reports associated with incidents within the parking area, the large number of vehicles typically parked on-site, as well as truck traffic throughout the facility, the potential exists for stormwater generated on-site to have been impacted by various inadvertent releases associated with same. Based upon the size of the facility, the costs to remediate impacts (if any) to any associated leaching structures could be significant. As such, F&E recommends any plans regarding the handling of stormwater at the facility be provided to F&E for review to determine the final discharge point of same. If no such plans are made available, F&E recommends that same be investigated through dye-testing, line tracing, geophysical surveying and sampling/analysis of bottom sediments;

- Due to the aggregate amount of drums/containers stored on-site, the facility is required by law to be registered as a Bulk Storage Facility in accordance with NCDH Article XI;

- The hard-piped floor drains identified within the interior of the facility reportedly discharge to one of the three on-site sewer-ejector pits and subsequently to the municipal sewer system. This could not be confirmed;

- Visually-impacted stormwater abatement structures observed within the loading bay were filled with debris. As such, it could not be confirmed if same were hard-piped. F&E recommends that the foregoing structures be cleared of debris to allow for inspection of same;

- According to NYSDEC Spill No. 01-25233, approximately 700-gallons of ethylene glycol was released from the closed-loop system beneath the arena floor. The integrity of the aforementioned system is unknown;

- The integrity of the pistons associated with the hydraulically-powered elevators is unknown. As such, releases of hydraulic oil may have impacted soil and/or groundwater;

- No representation could be made regarding the integrity of the 1,000-gallon diesel UST situated at the exterior of the building south of the box office; and

- No documentation was identified regarding soil and groundwater conditions within and proximate to the tank grave of the former 1,000-gallon diesel UST, which was reportedly removed in 1987 subsequent to failing two tightness tests.

Based upon the aforementioned potential environmental concerns, F&E recommends that a Phase II ESA be conducted at the subject property. The Phase II ESA should include:

- Performance of soil and groundwater sampling in the vicinity of the former Mitchell Field sewage treatment beds (the southwestern corner of the subject property);

- Performance of an upgradient and downgradient groundwater sampling program. This will identify significant impacts to same due to the historic Mitchell Field facility, potential impacts of PCBs associated with the pistons utilized by the hydraulically-driven elevators, as well as to determine any impacts due to releases from the glycol piping situated beneath the arena floor;[1]

- Performance of soil and groundwater sampling in the vicinity of the tank grave associated with the former 1,000-gallon diesel UST;

- Performance of a tightness test to confirm the integrity of the in-service 1,000-gallon diesel UST; and

- In the event that stormwater is found to discharge to on-site structures, F&E recommends the performance of a geophysical survey to map out the leaching structure network associated with same. Additionally, bottom sediment samples from within any identified leaching structures should be collected and analyzed.

[1] In the event that groundwater is shown not to be impacted, any un-identified soil impacts (e.g., those associated with former military uses) would likely be restricted to the unsaturated zone and could be relatively easily remediated.

1.0 INTRODUCTION

This document is a Phase I Environmental Site Assessment (ESA) prepared by Freudenthal & Elkowitz Consulting Group, Inc. (F&E) to determine recognized environmental conditions (RECs) and/or potential environmental concerns (PECs) for an approximately 83-acre parcel of land currently improved with the Nassau Veterans Memorial Coliseum (Nassau Coliseum) and associated asphalt-paved parking areas located at 1255 Hempstead Turnpike (a.k.a. New York State Route 24 and Fulton Street), Hamlet of Uniondale, Town of Hempstead, Nassau County, New York. All figures referenced in this report are included in Appendix A. Representative site photographs are included in Appendix B.

1.1 Preparer and Client Information

This report was prepared in March of 2005 by Matthew Trieber and Stephen Kaplan and was supervised by Richard Baldwin, CPG, Vice President of Freudenthal & Elkowitz Consulting Group, Inc., at the request of Mr. William Schaefer of Northern Bay Management Group, LLC (Northern Bay). This report was prepared for Northern Bay and use by other parties is not authorized.

1.2 Standards and Limitations

This Phase I Environmental Site Assessment has, at a minimum, been prepared in conformance with the scope and limitations of ASTM Practice E 1527-00. This report has been prepared by persons experienced in evaluating sites for environmental conditions. However, such evaluations are limited by a variety of factors (e.g., site configuration, accessibility, etc.). While a reasonable effort has been made to assess the site and render an opinion consistent with prevailing regulations and current professional practices, the liability of Freudenthal & Elkowitz Consulting Group, Inc. and its employees and contractors is strictly limited to the fee charged for this report. Use of this report by any party for any purpose constitutes acceptance of this limitation of liability.

1.3 Methodology and Scope

This document has been prepared in accordance with procedures established by environmental professionals and in concert with the guidance of regulatory agencies and funding institutions and ASTM Practice E1527-00. The purpose of ASTM Practice E1527-00 is to define good commercial and customary practice in the United States of America for conducting an environmental site assessment of a parcel of commercial real estate with respect to the range of contaminants within the scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and petroleum products. As such, Practice E1527-00 is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner defense to CERCLA liability: that is, the practices that constitute "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in 42 USC §9601 (35)(B).

The goal of the processes established by ASTM Practice E1527-00 is to identify recognized environmental conditions. The term recognized environmental conditions means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater or surface water on the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws.

The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be subject of an enforcement action if brought to the attention of appropriate government agencies. Conditions determined to be de minimis are not recognized environmental conditions.

An historical recognized environmental condition is an environmental condition which in the past would have been considered a recognized environmental condition, but which may or may not be considered a recognized environmental condition currently.
A material threat is a physically observable or obvious threat which is reasonably likely to lead to a release that is threatening and might result in impact to human health and the environment.

A complete evaluation of business environmental risk associated with a parcel of commercial real estate may necessitate investigation beyond that identified in ASTM Practice E1527-00. A business environmental risk is a risk that can have a material environmental or environmentally-driven financial impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in Practice E1527-00. Consideration of business environmental risk issues necessitates that one or more non-scope considerations be addressed.

This Phase I Environmental Site Assessment, as required by ASTM Practice E1527-00, specifically consists of the following components:

- Records Review (Federal, State and Local Agencies and Historical Sources)
- Site Reconnaissance and Interviews
- Non-scope Considerations (see-below)
- Findings
- Conclusions

Areas of concern that are beyond the scope of Practice E1527-00 are classified as non-scope considerations. The following is a list of non-scope considerations, which are addressed within this Phase I Environmental Assessment:

- Radon
- Lead-based Paint
- Asbestos-containing Materials
- Wetlands
- Special Groundwater Protection Areas

In preparing this Phase I Environmental Site Assessment, Freudenthal & Elkowitz Consulting Group, Inc. assumes that all readily available and relevant environmental and historical data reviewed in conjunction with this assessment and any information obtained during interviews and inquiries with available and knowledgeable parties is accurate.

2.0 SITE DESCRIPTION

2.1 Property Address and Location

The subject property has a street address of 1255 Hempstead Turnpike, Uniondale, New York. The property is located on the north side of Hempstead Turnpike (a.k.a. New York State Route 24), west of James Doolittle Boulevard, east of Earle Ovington Boulevard and south of Charles Lindberg Boulevard, in the Hamlet of Uniondale, Town of Hempstead, Nassau County, New York (Figure 1). Kindly note that a Marriott Hotel is located at the central eastern portion of the subject property. However, same is considered an out-parcel and is not considered part of the subject property for the purposes of this Phase I ESA.

2.1.1 Tax Map Number

The property is designated in the Nassau County Tax Maps as Section 44 - Block F – Lot Nos. 326, 351, 401, 402 and 403. According to information provided by the Nassau County Tax Assessor, Lot Nos. 401, 402 and 403 were known as Lot No. 350 prior to 1990.

2.1.2 Acreage and Building Size

According to information provided by the Nassau County Tax Assessor records. The size of Lot Nos. 351, 401, 402 and 403 totals approximately 83.28-acres. The Nassau Coliseum building and other structural improvements are located on Lot No. 403 and reportedly consist of an 18,000-square foot (s.f.) indoor arena, 47,778-feet of chain-link fences, 2,613,600-s.f. asphalt-paved surfaces and 80,000-s.f. concrete-paved surfaces. All of the aforementioned improvements were constructed circa 1972. Additionally, a 15-by-25-foot frame shed, of unknown use, was reportedly constructed in circa 1974.[2] Lot Nos. 401 and 402 are reportedly improved with asphalt-paved areas. Improvements to Lot No. 351 consist of asphalt-paving and chain-link fencing.

[2] The aforementioned shed is likely associated with the propane storage shed (with incorrect dimensions), however, this could not be confirmed.

2.1.3 Ownership

According to Nassau County Tax Assessor records, the owner of record is the County of Nassau.

2.1.4 Zoning

According to the Town of Hempstead Zoning Maps, the largest portion of the subject property is situated within the Residence B District. The eastern portions of the subject property are situated within the Planned Development District and the Mitchell Field Hotel District.

2.2 Current Occupancy and Property Use

The subject property is improved with the Nassau Coliseum facility. In addition to the indoor arena known as the Nassau Coliseum, associated improvements include asphalt-paved parking areas, perimeter fencing, parking attendant booths, landscaping, sub-grade utilities and concrete-paved walkways.

3.0 SITE GEOLOGY AND HYDROLOGY

3.1 Topography and Surface Characteristics

3.1.1 Elevation

The property is ranges in elevation from approximately 75-to-80-feet above mean sea level according to review of the USGS Topographic Map, Freeport Quadrangle (Figure 3).

3.1.2 Surface Water Bodies

No surface water bodies are located on or adjoining the subject property.

3.1.3 Soils

According to the Soil Survey of Nassau County, New York, the soil on the subject property are mapped as Urban Land (Ug) and Haven loam, thick surface layer (He).

Urban Land consists of areas where at least 85 percent of the surface is covered with asphalt, concrete or other impervious building material. These areas mostly are parking lots, shopping centers, industrial parks or institutional sites. Many are in the business centers in the villages and cities. Most areas are nearly level, and some are generally sloping. Many areas are rectangular or long and narrow and are mainly adjacent to local main thoroughfares. The areas range from about three acres to as much as several hundred acres.

Included with this unit in mapping are small areas of soil that have not been appreciably altered or that are not under an impervious cover. These areas are mainly in lawns or other landscaped areas. Most of the included open areas are well drained Riverhead, Hempstead, or Enfield soils or excessively drained Udipsamments.

In many areas rapid or very rapid runoff prevents adequate discharge of runoff from intense rainstorms to safe outlets. A few areas are in low spots where seasonal wetness sometimes causes temporary flooding of the surface or frost heaving and subsequent breakup of surface pavements.

The Haven loam, thick surface layer (He) soil is mainly on outwash plains throughout the County. It occupies the bottom of the larger drainage channels or closed depressions where silty material has accumulated from surrounding areas. Slope is less than three percent. Areas of this soil generally are quite small. They are mostly long and narrow, but in closed depressions the areas are nearly round.

This soil has the profile described as representative of the series, except that the content of organic matter in the surface layer increases with depth, and the surface layer ranges from about 12-to-20-inches in thickness. Also, in most places the surface layer contains more silt than the soil described as representative of the series, and in some places the subsoil is loam or silt loam.

Included with this soil in mapping are small areas of soils that have a surface layer less than one foot thick or more than 2 ½ feet thick. These included soils are on the same landform and in close association with this soil. Also included are small areas of Scio soils, on the wetter sites, and areas of coarser textured soils that have thick accumulations on the surface. Areas of somewhat poorly drained or wetter soils are shown on the map by the conventional symbol for wet spots.

The hazard or erosion is slight on this Haven soil, except where the soil receives large amount of water from adjoining sloping soils.

3.2 Groundwater Characteristics

3.2.1 Depth to the Water Table

Comparison of the 1999 Water Table Elevation Map (Figure 4) to the Topographic Map indicates that depth to groundwater in the site vicinity ranges from approximately 30-to-35-feet below grade surface.

3.2.2 Groundwater Flow Direction

According to review of the 1999 Water Table Elevation Map (see Figure 4), the inferred direction of regional groundwater flow is southerly.

3.2.3 Groundwater Classification

Groundwater underlying the overall property and the surrounding area is categorized as Class GA, a source of potable water supply. This classification requires quality standards to be the most stringent. Groundwater underlying the site vicinity is also designated as a sole source aquifer.

3.2.4 Groundwater Quality

In an effort to obtain general information on groundwater quality, the Final Long Island Groundwater Management Program (NYSDEC, 1986) was consulted. Information relating to organic contamination and nitrate contamination was ascertained.

Organic contamination is considered to be "...the highest priority threat to Long Island groundwater." According to the referenced NYSDEC publication, there are three major categories of organics that are considered as high priority water quality problems. These include:

- industrial/commercial solvents and de-greasers;
- gasoline and petroleum products constituents; and
- pesticides and herbicides.

As indicated on Figure 5, the subject property is located in an area where shallow groundwater is documented as being contaminated with organics.

Nitrate contamination is not considered to be as severe as organic contamination. However, the NYSDEC states that, "particularly in agricultural areas and in developed or developing areas nitrates are a significant priority problem..." Sources that contribute to nitrate contamination include:

- precipitation;
- agricultural and turf fertilizer;
- sewage effluent through cesspools, septic tank leaching fields and subsurface treatment plant discharges; and
- animal wastes.

Through analysis of Figure 6, it may be concluded that the overall property is not located within an area where shallow groundwater or public water supply wells are contaminated with nitrates.

3.3 Geology

A concise and accurate description of the geology, physiography and drainage of Nassau County is found in the Soil Survey of Nassau County, New York (USDA). Relevant excerpts of this study are included below.

Nassau County is part of the Coastal Plain physiographic province. The county is characterized by undulating or rolling landscapes in the northern part and a flat plain with a gently southward tilt in the southern part. A lobe of rolling topography protrudes farther to the south along the eastern edge of the County. Extensive tidal areas and marshes are just south of the plain, and a barrier beach and dunes form the southern outline of the county.

Elevation in the County ranges from sea level to about 340 feet above sea level near the eastern edge of the county, just south of NYS Route 25. The landforms at the higher elevations were deposited as a terminal moraine. These areas have irregular topography that is crossed by deep glacial drainage channels near the north shore. These channels empty into deep bays on the north shore. The steepest relief is along drainage channels or on the side slopes adjacent to the bays. An outwash plain, which is to the south of the terminal moraine, has a maximum elevation of about 180 feet just northeast of Hicksville and slopes gradually to the south some eight to ten miles, finally reaching tidal area at sea level.

Nassau County is underlain by bedrock, but most of it is at a depth of several hundred feet. The closest surficial bedrock is to the west in the boroughs of Bronx and Queens in New York City and areas to the northwest in Westchester County near Long Island Sound. From these areas of surface exposure, the rock surface dips to the southeast to form a solid basement below Nassau County. Most of the bedrock consists of Cretaceous sedimentary layers. Some of the older rocks in the area are the 200 million year old Triassic red beds and lava flows off New Jersey and Connecticut and Cambrian metamorphic rocks in the New York City area that are 450 million years old.

During the late Cretaceous Period the sediments from the eroding Appalachian Highlands were carried by streams and rivers to low-lying coastal areas. The sand, silt, and clay of the Raritan and Magothy formations, which form the foundation of Long Island, were deposited as deltas in areas of shallow water. The Raritan formation is below sea level, and the Magothy formation is at the surface of several sites along the north shore.

During the Tertiary Period the area of Long Island was uplifted above sea level and the Cretaceous sediments were eroded and dissected by streams and rivers. The valley now occupied by Long Island Sound was cut by a major river, and smaller tributary streams formed valleys which are now the north shore bays.

During the Pleistocene Epoch of the Quaternary Period, several major glacial advances into the northern United States occurred. This epoch is divided into four major glacial stages. From oldest to youngest, they are: Nebraskan, Kansan, Illinoian, and Wisconsinan. During the Illinoian advance, the ice sheet reached a position just north of the Long Island area. Outwash sand and gravel, of the Jameco gravel formation, was deposited by meltwater streams. Following the Illinoian stage, sea level rose close to its present level and a clay (Gardiner clay) containing marine fossils was deposited in the shallow coastal waters surrounding Long Island.

During the Wisconsinan glacial advance, the ice reached a position represented on most of Long Island by the Ronkonkoma terminal moraine. In the latter part of this stage, the ice sheet receded from a point east of Lake Success and established a new position along the north shore marked by the Harbor Hill terminal moraine. West of Lake Success this lobe of ice overrode the Ronkonkoma moraine and pushed as far south as Staten Island. This caused the terminal moraine/deposits in Nassau County to form a wide band of irregular topography occupying the northern half of the county, while in adjacent Suffolk County the terminal moraine deposits were far enough apart to be two distinct landforms separated by a flat plain. During the Wisconsinan advance, sea level dropped about 350 feet below its current elevation to expose a broad, flat coastal plain.

As the climate again warmed about 11,000 years ago, the Wisconsinan period ended and the Holocene, or present, period began. The ice sheet receded to its present polar limits, and sea level rose to its present level. Currents and wave action modified the outwash plain to create the present-day shoreline.

4.0 SITE HISTORY

4.1 Municipal Records Review

Local government record keeping, pertaining to the overall property being located in the Hamlet of Uniondale, Town of Hempstead, Nassau County, New York, is under the jurisdiction of the following agencies:

Agency Name	Type of Records Maintained	Date Freedom of Information Request Submitted	Date of Agency Response, Records Review or Records Receipt
Town of Hempstead Department of Buildings	Building permit applications, building permits, site plans, surveys.	January 14, 2005	Response received.
Nassau County Tax Assessor	Tax assessment records, site tax history, parcel/building size, ownership.	December 29, 2004	December 29, 2004 Records received.
Nassau County Fire Marshal	Fire department and hazardous materials storage violations, registration and testing of underground gasoline and diesel fuel tanks.	December 28, 2004	January 22, 2005 Records review.
Nassau County Department of Public Works	Sewer connection records.	January 14, 2005	January 14, 2005 Records review.
Nassau County Department of Health	Registration and testing of underground storage tanks (except gasoline and diesel fuel), registration of chemical and hazardous materials storage facilities, potable water and sanitary disposal facilities, Underground Injection Control Program, lead and asbestos.	December 28, 2004	January 18, 2005 Response received.

Copies of local government correspondence and/or records are provided in Appendix C.

Nassau County Tax Assessor

According to Nassau County tax records, the subject property appears in the Nassau County Tax Maps as Section 44 - Block F – Lot Nos. 326, 351, 401, 402 and 403. According to information provided by this agency, Lot Nos. 401, 402 and 403 were known as Lot No. 350 prior to 1990. According to a representative of the Tax Assessor, historic tax cards were not available for Lot Nos. 401, 402 and 403, as same were created circa 1990. Additionally, a tax card for historic Lot No. 350 could not be identified.

The size of Lot Nos. 351 (2.6974 acres), 401 (2.9420 acres), 402 (3.6380 acres) and 403 (74.0070) totals approximately 83.28 acres. The Nassau Coliseum building and other structural improvements are located on Lot No. 403 and reportedly consist of an 18,000-s.f indoor arena,[3] 47,778-feet of chain-link fences, 2,613,600-s.f. asphalt-paved surfaces and 80,000-s.f. concrete-paved surfaces. All of the aforementioned improvements were constructed circa 1972. Additionally, a 15-by-25-foot frame shed (potentially the propane shed, but unconfirmed) was reportedly constructed in circa 1974. Lot Nos. 401 and 402 are reportedly improved with asphalt-paved areas. Improvements to Lot No. 351 consist of asphalt-paving and chain-link fencing.

Section 44 – Block F – Lot No. 326 is owned by the County of Nassau and is also bounded by the same streets as the subject property. However, this parcel is considered an out-parcel and is not incorporated within this Phase I ESA. According to Nassau County Tax Assessor Records, the out-parcel lot totals 8.3680-acres in size. The parcel is improved with a 184,448-s.f. hotel building constructed in circa 1982 (utilized as a Marriott Hotel). The building is reportedly owned and operated under a land-lease by Marriott International, Inc. while the property is owned by the County of Nassau. Again, the Marriott property (Lot No. 326) is not considered part of the subject property and is not detailed within this report.

[3] Based upon the January 2005 site inspection, the Nassau Coliseum facility was estimated by F&E to be larger than 18,000-s.f. in-size. The reason for this discrepancy is unknown.

Town of Hempstead Building Department

On January 14, 2005, a representative of this agency indicated that as the subject property is owned by Nassau County, no records are maintained by the Building Department concerning same.

Nassau County Fire Marshal (NCFM)

The file maintained on the subject property by this agency was reviewed on January 22, 2005. According to an undated newspaper article included within the NCFM records, the Nassau Coliseum reportedly opened unofficially on February 11, 1972.

A 1,000-gallon diesel underground storage tank (UST) was reportedly installed in 1973 and removed in 1987. The tank was removed subsequent to failing three tightness tests, all in 1987. Two New York State Department of Environmental Conservation (NYSDEC) Spill numbers were assigned to the failing tightness tests (see discussion in Section 5.1.1 below). Based upon a Flammable/Combustible Liquid Storage Tank Registration, dated September 29, 1987, which indicates the presence of two registered 1,000-gallon USTs, it appears that the replacement 1,000-gallon diesel UST (location observed during the January 2005 site inspection) was installed prior to the removal of the leaking UST. Therefore, F&E believes that only one extant 1,000-gallon diesel UST currently exists on the subject property. No records indicating the presence of a NCFM/NYSDEC representative at the tank removal circa 1987 were observed within the file.

The removed leaking UST was reportedly installed within a concrete-bounded planter area situated adjacent to the box office area. The location of the replacement UST was observed during the site inspection to adjoin the box office area to the south. The replacement 1,000-gallon diesel UST appeared to have been most recently tested in 2003. Documentation prepared by Fenley & Nicol Environmental, Inc., indicated that the UST, as well as the feed and return lines, passed a tightness test on November 17, 2003.

Nassau County Department of Health

Documentation received from this agency, dated January 18, 2005, indicated that no records were noted for the subject property.

Nassau County Department of Public Works (NCDPW)

On January 14, 2004, this agency provided F&E with a printout detailing the locations of solid manhole covers and sewer lines associated with the municipal sewer system. Same indicated that facility-related sanitary waste discharged via the municipal sewer system at locations to the north and south of the property, along Hempstead Turnpike and Charles Lindberg Boulevard, respectively (see Appendix C). This agency also indicated that the property was connected to the municipal sewer system at the time of its construction. As such, no on-site sanitary system(s) was utilized by the Nassau Coliseum facility.

Although no details concerning the method of stormwater abatement were maintained by this agency. A representative of the NCDPW indicated that no municipal stormwater sewer system exists to service Nassau County. The NCDPW representative further stated that regulations regarding stormwater for Nassau County dictate that stormwater generated at a facility must remain on-site. Facility personnel were unaware of the details of the facilities stormwater abatement system and no final on-site discharge point for stormwater was observed on the subject property. As such, the potential exists that a recharge basin located on the former Mitchell Army Air Corps Base (a.k.a. Mitchell Field) facility receives stormwater discharge from the Nassau Coliseum property, however, however, the presence of such a recharge basin was not observed during the site inspection. Several stormwater leaching structures may potentially be located throughout the subject property. Again, this was unconfirmed. The exact method of stormwater abatement can not be confirmed without further site investigation at the facility.

4.2 Historical Resources Review

4.2.1 Sanborn Maps

Environmental Data Resources, Inc. (EDR) indicated on November 22, 2004 that no Sanborn Map coverage is available for the subject property and site vicinity (Appendix D).

4.2.2 Aerial Photograph Review

In an effort to determine historic usage of the subject property, a library of aerial photographs maintained by F&E was reviewed. Additionally, the client provided F&E with an Environmental Data Resources, Inc. (EDR) Aerial Photograph Decade Package prepared for the subject property. Aerial photographs dating 1947, 1953, 1966, 1976, 1980, 1981, 1992, 1994 and 2001 were determined to include the subject property (Appendix E).

1947: The subject property is partially-visible, and is developed with Mitchell Field (a World War II-era Army Air Corp. base). Seven sewage filter beds are visible at the southwestern corner of the subject property, proximate to Hempstead Turnpike. At least four settling tanks associated with the sewage treatment plant are visible north of the filter beds. One large, five small airplane runways and associated taxiways and aircraft parking pads/aprons are visible throughout the site.

1953: No significant changes to the subject property or immediate surrounding area are visible.

1966: Michell Field appears to be out-of-use and as such, portions of the facility's runways appear to be utilized as vehicle parking areas. At the southeastern corner of the subject property, linear pathways that converge on a central point and possibly associated with airport communications equipment, are visible. The immediate surrounding area to the east and south consists mostly of vacant land, with residences visible to the southwest.

1976: The subject property portion of the former Mitchell Field facility has been redeveloped with the existing Nassau Coliseum. The aforementioned sewage filter beds are still visible at the southwestern corner of the subject property.

1980: No significant changes to the subject property are evident.

1981: No changes are visible to the subject property. The remnants of three runways associated with Mitchell Field are visible west and north of the subject property.

1992: Asphalt-paving was visible at the eastern portion of the former sewage disposal beds. The western portion was not included within the 1992 aerial photograph available for review. All of the former sewage disposal beds located on the subject property were likely redeveloped as an asphalt-paved parking area, however, this could not be confirmed. The eastern portion of the subject property is partially-visible. The adjoining Marriott Hotel has been constructed. The subject property appears to be relatively unchanged. EAB Plaza has been constructed to the southeast.

1994: With the exception of a visible confirmation of the asphalt-paving associated with the western portion of the former sewage disposal beds, no significant changes to the subject property or immediate surrounding area are evident.

2001: The subject property and immediate surrounding area remain generally unchanged.

4.2.3 Historic Topographic Maps

Environmental Data Resources, Inc., performed a search of historic topographic maps for the subject property. Maps were provided from the years 1903, 1918, 1947, 1955, 1969, 1979 and 1994 (Appendix F). Information contained within the aforementioned maps is listed below:

1903: No structures are indicated at the subject property. A mapped roadway is located proximate to the western boundary of the subject property. East Meadow Brook is visible east of the subject property.

1918: The northern portion of the subject property and the portions of the to-be-designated Mitchell Field facility are noted to be Aviation Field No. 2.

1947: Mitchell Field is now visible. The subject property appears to include a portion of a runway associated with same. Residential development had increased to the south of the subject property.

1955: Seven sewage filter beds are visible at the southwestern corner of the subject property. The Santini Sub-base, associated with the Mitchell Field air base is visible south of Hempstead Turnpike.

1969: No significant changes are visible to the subject property. The Mitchell Field facility is noted to be an abandoned airport. The Santini Sub-base and the former sewage disposal beds are no longer indicated.

1979: The subject property has been redeveloped with the existing Nassau Coliseum facility. A square-shaped structure of unknown use is situated to the east of the Coliseum building. Same is likely the northern-most concrete-bounded vegetated landscaping planter observed during the January 2005 site inspection, however, this could not be confirmed. Additionally, the aerial photographs reviewed from 1976 and 1981 confirmed the presence of both the northern and southern concrete-bounded planters at this general location.

1994: The subject property appears generally unchanged. However, several roadways appear to transect the subject property. The eastern adjoining Marriott Hotel and the southwesterly adjoining EAB Plaza facility have been constructed.

4.2.3 Summary of Site History

According to review of historical aerial photographs and Nassau County records, the overall property was originally part of what was known as the Hempstead Plains. The Hempstead Plains is referred to as the "Cradle of Aviation" and was witness to many historic flights including the take-off of Charles Lindberg's famous cross-Atlantic flight and James Doolittle's first "Blind" flight. In 1917 the aviation field "Field No. 2" was established to serve as an air-training and storage base. Hundreds of aviators trained for war at the training base.

The airfield was renamed in 1918 to Mitchell Field. Construction of Mitchell Field flourished after World War I and between 1929 and 1932 new brick barracks, officers' clubs, housing, warehouses, operations buildings and eight massive steel and concrete hangars were constructed. During World War II, Mitchell Field served as the main point of defense for New York City. The airfield continued to operate in some capacity until its ultimate closure in 1961.

By 1947, seven sewage filter beds are visible in aerial photographs at the southwestern corner of the subject property, proximate to Hempstead Turnpike. At least four settling tanks, associated with the sewage treatment plant, are visible north of the filter beds on the subject property. One large and five small airplane runways, as well as associated taxiways and aircraft aprons/pads, were present throughout the site. Mitchell Field air base was taken out-of-service prior to 1969.

By 1972, the existing Nassau Coliseum was constructed, and was reportedly connected to the municipal sewer system at the time of it construction. A 1,000-gallon diesel UST was reportedly installed in 1973 and removed in 1987 as a result of failing three tightness tests in 1987. Two NYSDEC Spill numbers were assigned to the failing of the tightness tests. A replacement 1,000-gallon diesel UST located south of the box office portion of the building, was installed prior to the removal of the leaking UST which was apparently removed in 1987 without appropriate regulatory oversight.

Nassau County Tax Map Section 44 – Block F – Lot No. 326 is owned by the County of Nassau and is also bounded by the same streets as the subject property. However, this parcel is considered an out-parcel and is not detailed within this Phase I ESA. According to Nassau County Tax Assessor Records, the out-parcel lot totals 8.3680-acres in size. The parcel is improved with a 184,448-s.f. hotel building constructed in circa 1982 (utilized as a Marriott Hotel). The building is reportedly owned and operated under a land-lease by Marriott International, Inc. while the property is owned by the County of Nassau. Again, the Marriott property (Lot No. 326) is not considered part of the subject property and is not detailed within this report.

The facility has been in consistent operation as a sports/concert/entertainment arena since its construction circa 1972. The portion of the property formerly containing the sewage treatment facility for Mitchell Field were removed by 1969, and were confirmed to have been asphalt-paved by 1994. This area was observed by F&E to be improved with an asphalt-paved parking area during the January 2005 site inspection.

5.0 REGULATORY AGENCY DATABASE SEARCH

5.1 Subject Site Regulatory Review

Agency	Federal Environmental Review Listing Name or Database Searched	Abbreviation	Site Listed Yes/No
USEPA	National Priorities List Report	NPL	No
USEPA	Comprehensive Environmental Response Compensation and Liability Act Registry	CERCLIS	No
USEPA	Resource Conservation and Recovery Act Treatment/Storage/Disposal Facilities and RCRA Corrective Actions	RCRIS TSD/ CORRACTS	No
USEPA	Resource Conservation and Recovery Act Very Small/Small/Large Quantity Hazardous Waste Generators	RCRIS VG/SG/LG	No
USEPA	Emergency Response Notification System	ERNS	No
USEPA	Facility Index System Database	FINDS	No

Agency	State Environmental Review Listing Name or Database Searched	Abbreviation	Site Listed Yes/No
NYSDEC	Inactive Hazardous Waste Disposal Sites in New York State	IHWDS	No
NYSDEC	Hazardous Substance Waste Disposal Site Study	HSWDS	No
NYSDEC	Brownfields Sites	BF	No
NYSDEC	Spill Information Database	SPILLS	**YES**
NYSDEC	Leaking Underground Storage Tank Sites[2]	LUST	**YES**
NYSDEC	Registered Underground Storage Tank	RUST	**YES**
NYSDEC	Solid Waste Facility Register	SWF	No

[2] Compiled from NYSDEC Spill Information Database.

5.1.1 Regulatory Agency Listings for the Subject Property

As noted in the table above, the subject property was not listed in any Federal (USEPA) databases. However, the subject property was identified within the State (NYSDEC) Spills, LUST and RUST databases. The following is a summary of information provided in these listings:

- Spill Nos. 87-01759 and 87-02169 (also reported on the LUST database were reported on June 2 and 16, 1987, respectively when a 1,000-gallon diesel UST failed two separate tightness tests.[4] The UST was removed and approximately five cubic yards of impacted soil was stockpiled. These incidents were noted within the NCFM records reviewed by F&E. See Section 4.1 for details. The spill files were reportedly closed by the NYSDEC;

- Nassau Coliseum, Spill No. 01-25233. The spill was reported on October 22, 2001 when approximately 700-gallons of ethylene glycol (a material utilized within the cooling system for the facility) was released a contained area and directed into the sewer system as a result of a pipe breakage. The spill file was closed by the NYSDEC on October 22, 2001. It should be noted that the foregoing incident also appeared on the Releases (Air/Water) database. However, no additional information was provided within the listing; and

- R.A. Sommerville, Spill No. 93-12784. The spill was reported on January 30, 1994 when the fuel tank of a parked passenger vehicle leaked causing 20-gallons of gasoline to spill to the surface of the parking lot. No drains were reportedly impacted and the spill was closed by the NYSDEC on January 31, 1994.

[4] Please note that NCFM records indicated that the former UST failed three tightness tests in 1987 prior to the removal of same.

Freedom of Information requests were submitted to the NYSDEC for the aforementioned spill incidents. Information provided by the agency was included within their respective spill files has been included within their descriptions above.

- The facility was also reported on the RUST database. However, due to non-disclosure by the Nassau County Fire Marshal's office, a confidential status is invoked. As such, no additional information regarding the listing was provided.

5.2 Area Regulatory Review

Federal and State listings, databases and registries of Superfund sites, known or suspected hazardous waste disposal sites, hazardous waste generators, landfills and facilities with reported spills, environmental violations or environmental permits maintained by the USEPA and NYSDEC were reviewed to determine if properties within a predetermined distance from the subject site were reported. Listings and registries reviewed and minimum distance searched are included below:

Agency	Listing Name or Database Searched	Abbreviation	Search Distance
USEPA	National Priorities List Report	NPL	1 mile
USEPA	Comprehensive Environmental Response Compensation and Liability Act Registry	CERCLIS	0.5 mile
USEPA	Resource Conservation and Recovery Act Treatment/Storage/Disposal Facilities and RCRA Corrective Actions	RCRIS TSD/ CORRACTS	1 mile
USEPA	Resource Conservation and Recovery Act Very Small/Small/Large Quantity Hazardous Waste Generators	RCRIS VG/SG/LG	adjoining
USEPA	Facility Index System Database	FINDS	adjoining
NYSDEC	Inactive Hazardous Waste Disposal Sites in New York State	IHWDS	1 mile
NYSDEC	Hazardous Substance Waste Disposal Site Study	HSWDS	1 mile
NYSDEC	Brownfields Sites	BF	0.5 mile
NYSDEC	Spill Information Database	SPILLS	0.5 mile
NYSDEC	Leaking Underground Storage Tank Sites[3]	LUST	0.5 mile
NYSDEC	Registered Underground Storage Tank Sites	RUST	0.1 mile
NYSDEC	Solid Waste Facility Register	SWF	0.5 mile

A regulatory agency report (Environmental FirstSearch Report) generated by FirstSearch Technology Corporation on February 4, 2005 has been included in Appendix F and contains more detailed descriptions of sites listed below.

[3]Compiled from NYSDEC Spill Information Database

5.2.1 Federal Database Review Summary

United States Environmental Protection Agency

National Priority List (NPL):

The NPL Report documents confirmed hazardous waste sites that pose a significant threat to the environment and human health. These sites have been designated by the USEPA for remedial action under the Superfund Act.

No NPL sites were identified within the search distance (1.0 mile).

Comprehensive Environmental Response Compensation and Liability Act (CERCLIS):

The CERCLIS registry is a compilation of known or suspected hazardous waste sites. The USEPA has monitored these sites for the release or the potential release of hazardous materials into the environment. Listing in this registry does not necessarily indicate a hazardous discharge. It may indicate that the site is a hazardous waste generator with a number assigned by the USEPA.

No CERCLIS sites were found within the search distance (0.5 mile).

Resource Conservation and Recovery Information System (RCRIS):

RCRIS TSD Reports contain information pertaining to facilities that either treat, store or dispose of hazardous waste. Hazardous waste activities at these sites are monitored by the USEPA. Listing in this registry does not necessarily indicate a hazardous discharge. RCRIS CORRACTS identifies hazardous waste generators with RCRA corrective action activity.

There were no RCRIS TSD/CORRACTS facilities identified within the search distance (1.0 mile).

RCRIS VG contains information pertaining to facilities that generate less than 100 kg of hazardous waste per month. RCRIS SG contains information pertaining to facilities which generate between 100 kg and 1,000 kg of hazardous waste per month or meet other applicable requirements of RCRA. RCRIS LG contains information pertaining to facilities that generate more than 1,000 kg of hazardous waste per month or meet other applicable requirements of RCRA.

Four hazardous waste generator facilities were identified adjoining the subject property:

- Noritsu America – Long Island Marriott, ID No. NYR000002352, 101 James Doolittle Boulevard, adjoining to both the north and south. The facility is situated both upgradient and downgradient to the subject property. The facility is listed as a small quantity hazardous waste generator with no violations noted.

- Fuji Photo Film USA, Inc., ID No. NY0000463257, 101 James Doolittle Boulevard, adjoining to both the north and south. The facility is noted to be a no longer regulated (NLR) hazardous waste generator with no violations.

- Long Island Power Authority (LIPA), ID No. NYR000065870, 333 Earle Ovington Boulevard, adjoining to the northwest and crossgradient. The facility is noted to be a transporter of hazardous waste. No violations or enforcement actions were noted.

- Sunoco Service Station, ID No. NYD000701391, 1220 Fulton Avenue, adjoining to the south and downgradient. The facility is listed as a NLR hazardous waste generator with no violations.

Facility Index System (FINDS):

The FINDS database is an inventory of all facilities regulated or monitored by the USEPA. These facilities have been assigned identification numbers that enable the cross-referencing of other USEPA databases. Listing on this registry does not, by itself, indicate hazardous discharge.

With the exception of the LIPA facility, all of the aforementioned hazardous waste generator facilities were reported on the FINDS database based solely on the RCRIS statuses. No additional adjoining FINDS facilities were identified within the Environmental FirstSearch report.

5.2.2 State Database Review Summary

New York State Department of Environmental Conservation (NYSDEC)

Division of Hazardous Waste Remediation, NYSDEC, Inactive Hazardous Waste Disposal Sites in New York State:

This registry, published by the NYSDEC, documents known inactive hazardous waste sites in the State of New York based upon recommendations from counties, complaints from the public, data obtained from hazardous waste generators and other sources. These sites are inspected by NYSDEC staff and classified according to the potential for or imminent threat posed to the environment and public health.

Two Inactive Hazardous Waste Disposal Sites (IHWDS) were located within the search distance (1.0 mile):

- 425 Merrick Avenue, ID No. 130061, 0.47 miles northeast and crossgradient. The facility was used for academic research purposes until 1990. The soils had been contaminated with polychlorinated biphenyls (PCBs), methylene chloride, 1,2-dichlorobenzene and mercury. The substances were stored in numerous waste containers abandoned on site. The containers and the contaminated soil have been removed and remediation work is reported as being completed. Groundwater contamination still exists, however, same is contained within site boundaries.

- Purex Mitchell Field, ID Nos. 130014 and NYD170009000, Commercial Avenue, 0.79 miles northwest and crossgradient. The facility was utilized for the distribution of chemicals. A contaminate plume of chlorinated solvents has been identified. An air stripping groundwater treatment system has been operating on-site for the past ten years. A soil sampling program, conducted in 1992, indicated that the soil cleanup objectives have been met and further soil remedial activities were discontinued. The site is currently improved with a Metropolitan Transportation Authority (MTA)/Long Island bus garage.

Hazardous Substance Waste Disposal Site Study:

The Hazardous Substance Waste Disposal Site Study was produced in accordance with amendments to the Environmental Conservation Law and Public Health Law that require the NYSDEC in consultation with the NYSDOH to conduct a study of potential hazardous waste disposal sites in order to assess the need to expand the scope of the State Superfund program. The study is considered a preliminary estimate of sites that may require further investigation and/or remedial action. Listing in this study does not necessarily indicate a hazardous discharge.

One Hazardous Substance Waste Disposal Site was found within the search distance (1.0 mile):

- Mitchell Field, ID Nos. HS1025 and NYD991292004, Mitchell Field Area, a portion of which is on the subject property. The facility was utilized as an airfield during World War II and was closed prior to 1970. Aircraft maintenance and the storage as well as disposal or large quantities of bulk chemicals and waste were disposed of on-site. Additionally, the illegal disposal of tanks, drums and the presence of lagoons were reported. A sewage treatment plant was also situated at the facility.[6] Wartime ordinance and chemicals are potentially present on site. Soil and groundwater are reported contaminated with volatile organic compound (VOCs), semi-volatile organic compounds (SVOCs) and metals. The County of Nassau redeveloped the site after acquiring ownership of the parcel in the late 1960s and early 1970s.

[6] The sewage treatment plant was confirmed by a review of historic aerial photographs to have been located at the southwestern corner of the subject property.

Brownfields (BF)

A brownfield is a property, the expansion, redevelopment or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. It is estimated that there are more than 450,000 brownfields in the U.S. Cleaning up and reinvesting in these properties increases local tax bases, facilitates job growth, utilizes existing infrastructure, takes development pressures off of undeveloped, open land, and both improves and protects the environment. Grants, tax exceptions and initiatives are available under the Brownfields Program to provide municipalities and community-based organizations with assistance to complete area-wide brownfield redevelopment plans and site assessments for priority brownfield sites.

Two mapped facilities were reported within pertinent zip codes, however, same were determined to be outside the 0.5-mile search radius.

Spills Information Database and Leaking Underground Storage Tanks (LUSTs):

Twenty-three mapped spills were reported within the search radius, and an additional 123 spills, locations unmapped, were reported in all pertinent zip codes. Two mapped and six unmapped spills were a result of Leaking Underground Storage Tanks (LUSTs). See Appendix F, Environmental First Search report, for a listing of spills and LUSTs. The large majority of spills were listed as closed (e.g., clean-up activities at these facilities met NYSDEC standards).

The following spills and/or LUSTs with the potential to have impacted subsurface conditions in the site vicinity were identified within the one-half mile search radius:

- Marriott Hotel, Spill No. 00-01783, 101 James Doolittle Boulevard, adjoining to the north and south (due to the orientation of the facility, located both upgradient and downgradient of the subject property). During the removal of a 550-gallon diesel UST, soil contamination was identified which reportedly appeared to be associated with historic overfills. Approximately three yards of contaminated soil were removed from the site and properly disposed of. The spill file has been closed by the NYSDEC.

Several spill incidents were reported associated with the northerly adjoining 185 Charles Lindberg Boulevard facility. This facility reportedly provided heated and chilled water to the Nassau Coliseum (see Section 6.0 for details). The facility is located at the north side of Charles Lindberg Boulevard and is situated upgradient of the subject property.

- Co-generation Plant, Spill No. 94-08665. The spill was reported on September 29, 1994 when it was confirmed (by a dye test) that floor drains within the building discharge to exterior drywells. The drywells were reportedly remediated and five yards of contaminated soil was removed from the site. End-point samples did not indicate the presence of any additional impacts. The spill file has been closed;

- Island Transportation, Spill No. 90-12709. The spill was reported on March 12, 1991 when 100 gallons of No. 2 fuel oil reportedly spilled to the ground during a tank overfill. Approximately 60 gallons of the spilled product has been recovered. The spill remains on the NYSDEC active spills list;

- Matlock, Spill No. 90-10082. The spill was reported when a caller indicated that staining was visible on the ground surface at the facility. The caller further stated that the company was reportedly dumping oil. The spill was closed in 1990 after the NYSDEC determined that no action was required;

- Trigen, Spill No. 01-01123. The spill was reported on April 29, 2001 when approximately 7,500-gallons of wastewater was inadvertently discharged to the municipal sewer system when a valve on a neutralization tank failed. No spilled material could be recovered. The spill file was closed by the NYSDEC;

- Trigen Nassau Energy, Spill No. 95-13358. The spill was reported on January 23, 1996 when five gallons of No. 2 fuel oil was reportedly spilled in the parking lot of the facility. No drains were noted to have been affected. The spill file has been closed;

- Trigen Energy, Spill No. 95-13371. The spill file is associated with the investigation of previously spilled No. 2 fuel oil at the facility (Spill No. 95-13358). The spill was suspected to have occurred due to the hose on a truck. The spill file was reportedly closed on January 23, 1996;

- Trigen Nassau Energy Corp., Spill No. 95-14490. The spill was reported on February 13, 1996 when a driver spilled approximately one-gallon of No. 2 fuel oil to the asphalt-paved parking lot surface during a disconnect. The spill was reportedly cleaned up with absorbent pads and the spill file was subsequently closed by the NYSDEC; and

- Trigen-Nassau Energy Corp., Spill No. 99-00517. The spill was reported on April 14, 1999 when a gear oil line ruptured spilling approximately ten gallons of product to blue stone and the walls of the facility. Impacted soil and gravel were excavated and removed from the site, and the spill file was closed.

Due to the established transportation corridor nature of the surrounding area, several additional spills regarding traffic accidents were reported proximate to the subject property. However, as no drains or soil were noted to have been impacted within the Environmental FirstSearch report, same are not likely to have impacted subsurface conditions that the subject property.

Registered Underground Storage Tanks (RUSTs):

The following RUST facilities were reported on the RUST database within a 0.10 miles radius:

- Ten Minute Oil Change (a.k.a. Ultra Lube II, Inc.), ID No. N-056501 and N-057505, 1156 Hempstead Turnpike, adjoining to the southeast and downgradient.
  - One in-service 1,000-gallon motor oil above-ground storage tank (AST), installed in 1993;
  - One in-service 500-gallon motor oil AST, installed in 1993;
  - One in-service 280-gallon motor oil AST, installed in 1993;
  - One in-service 280-gallon transmission fluid AST, installed in 1993; and
  - One in-service 650-gallon waste oil AST, installed in 1993.

Three additional facility reported RUSTs within the search radius, however, due to non-disclosure by the NCFM, a confidential status is invoked and no details concerning the registered tanks were provided. As such, only the addresses associated with the facilities are listed below:

- 1220 Fulton Avenue;
- 101 James Doolittle Boulevard; and
- 100 Quentin Roosevelt Boulevard.

New York State Department of Environmental Conservation Facility Register:

The Facility Register contains information about active solid waste management facilities managed by the Bureau of Municipal Waste Permitting in the Division of Solid Waste. This includes landfills (mixed solid waste, industrial/commercial, construction and demolition debris, and ash residue monofill), transfer stations and landfill gas recovery facilities.

No solid waste facilities were reported within the search distance (0.5 miles).

6.0 SITE RECONNAISSANCE

6.1 Site Inspection

The subject property was inspected on January 11, 2005 by F&E representatives Stephen Kaplan and Matthew Trieber. The subject property is improved with the Nassau Coliseum structure, associated appurtenances and an asphalt-paved parking area (Photograph No. 1 and Figure 2A). The Nassau Coliseum structure totals four stories, however, as one story is located below grade, the structure extends to three stories above ground level (agl). The Coliseum structure itself is an elliptical-shaped building with the long axis extending in a north-south direction. A vaulted-one-story extension is present off the eastern side of the Coliseum structure and serves as a box-office for the facility.

Two rectangularly-shaped concrete-bounded planter areas, containing landscaped vegetation, were observed within a concrete-paved portion of the property at the eastern exterior of the Coliseum building. According to information provided by the Nassau Coliseum Operations Manager, Mr. Ben Bizgia, and observations made during the January 2005 site inspection, the planters were utilized to conceal air-intake systems associated with facility operations (Photograph No. 2).

Several additional vegetated areas were observed throughout the concrete-paved area surrounding the Coliseum building. These vegetated areas all appeared to be associated with the facility utility system. However, same appeared to be minor in comparison to the air-intake structures located within the two eastern concrete planter structures.

Heating and air conditioning systems for the Coliseum building are served by hot and chilled water received from Trigen Energy Corporation (Trigen), from an off-site Central Utility Plant (CUP). Trigen adjoins the subject property to the north. Hot and chilled water conduits are routed south towards the Coliseum building within subgrade utility tunnels. Return lines to Trigen are routed northward through the same tunnels.

An asphalt-paved parking area surrounds the Nassau Coliseum facility and occupies the remainder of the subject property. Stormwater grates were observed throughout the paved parking lots (Photograph No. 3). The grates appeared to be associated with catch basins, the discharge point for which could not be confirmed by facility personnel or be direct inspection by F&E.

According to Mr. Bizgia, a parapet system is utilized to drain stormwater from the roof of the building, which is then discharged to the municipal stormwater sewer. Kindly note that a representative of the NCDPW indicated that no municipal stormwater sewer system services the subject property. As such, the final discharge point for the rooftop drainage stormwater could not be determined.

A truck loading-bay was observed at the northwestern corner of the Coliseum structure. According to Mr. Bizgia, all deliveries to the facility are made to this location. The concrete-paved loading bay ramp proceeds into a subgrade level of the Coliseum building (Photograph No. 4). The subgrade truck loading bay area consisted of space large enough for several trucks and was equipped with three stormwater abatement structures (discussed in more detail later) and a dumpster. A raised loading dock is present at the southern portion of the loading bay. The kitchen/food storage area for the facility is located southeast of the loading bay, and a poured-concrete subgrade pathway proceeds eastward towards the locker rooms/backstage area, from the loading bay. Freight elevators are also situated within this portion of the facility. The foregoing site features provide an accessway for supplies to reach their respective destinations within the facility itself.

Layout of Building

As stated earlier, the Nassau Coliseum structure consists of four stories, however, one story is located below grade and the structure extends to three stories agl.

Mechanical Level (100-level seating) (Subgrade)

The Mechanical Level is situated one-story below grade level (bgl) (see Figure 2B). As such, same is accessed by one of the four on-site elevators (discussed below), the truck loading bay, escalator or the stairways.

An at-grade concrete ramp descends eastward from the northwestern exterior of the Coliseum structure. The ramp proceeds into the subgrade truck loading bay area, and a hard-piped trench drains was observed near the bottom of the ramp. The truck loading bay was improved with poured concrete floors, painted concrete block walls and ceilings which were covered with spray-on fireproofing and potentially contained asbestos-containing materials (ACM).[7] Several support columns were situated within the loading bay (Photograph No. 5). Rooms labeled "paint shop" and "plumbing shop" were situated along the eastern wall of the loading bay (Photograph No. 6). The door was locked and a representative of the Nassau Coliseum, who did not provide his name, refused to grant the F&E representatives access to the paint shop.

[7] According to facility personnel, the spray-on fireproofing was confirmed ACM, however, no documentation was available for F&E's review. At the time of issuance of this Phase I ESA, F&E was still coordinating access for an ACM survey. The results of the survey will be provided under separate cover.

A hard-piped trench drain, trending in an east-west direction, transected the eastern portion of the loading bay (Photograph No. 7). The trench drain was observed to be solid-bottomed and equipped with piping that reportedly discharged to the sewer-ejector pit located within the loading dock, proximate to the Zamboni Storage area (described below). Additionally, three open-grate covers were observed within the loading bay. Due to the presence of debris within the structures, it could not be determined if same were hard-piped or drained in-situ. A dumpster was situated between two of the aforementioned open-grate covers. Hydraulic fluid was noted to have leaked to the poured concrete floor proximate to the compaction equipment of the dumpster. The oil and associated staining was observed proximate to two of the three covers (Photograph No. 8). As such, the potential exists for inadvertent releases associated with the dumpster to have impacted the aforementioned truck loading bay drains and their ultimate discharge points.

A sewer ejector pit was observed at the northeastern portion of the truck loading bay and reportedly discharges material from the interior floor drains within the building to the municipal sewer system (Photograph No. 9). A Zamboni machine, utilized to maintain the arena ice surface during events was staged proximate to the sewer-ejector pit. The Zamboni is fueled by compressed propane gas. According to the NCFM, only the cylinders being utilized by Zamboni are permitted to be stored within the building. Spare propane cylinders are required to be stored in a caged area located outside the Coliseum (observed at the north side of the loading bay entrance ramp, as discussed later).

An interior subgrade concrete ramp was observed proceeding in a southeasterly direction out of the loading bay area. The concrete ramp proceeded southeasterly, into the Exhibition Hall. This portion of the building consisted of a rectangular-shaped room, known as the Exhibition Hall, which, according to Mr. Bizgia, is utilized for various exhibition shows at the facility. The room was improved with a poured-concrete floor, concrete waffle ceiling (likely utilized to minimize echoes within the room) and masonry walls.

The ceiling of the Exhibition Hall was equipped with concrete support columns. Several hard-piped floor drains, equipped with piping that descended from the ceiling, were observed within the Exhibition Hall. No staining was noted proximate to same and Mr. Bizgia indicated that drainage from above the Exhibition Hall was directed to in-situ drains. Although it could not be confirmed, the floor drains may be associated with the aforementioned method of rooftop drainage. At the western wall of the room, a VIP lounge was observed. The eastern portion of the Exhibition Hall contained entrances to restrooms as well as a concession stand. Doors observed along the southern wall of the room connected to a hallway. The hallway trended in an east-west direction, and facilitates connection between the foyer and the subway (both discussed below) at the western and eastern ends of the hallway, respectively. The subway is an underground corridor that extends to staircases located within the parking lot situated between the Coliseum building and the Marriott Hotel structures. The hallway also contains the entrance to the mechanical area situated south of the Exhibition Hall.

The mechanical area south of the Exhibition Hall includes an area utilized for a machine shop to support routine building repairs. This room was equipped with a slop sink which discharged to a hard-piped floor drain which reportedly discharges to one of the sewer ejector pits) (Photograph No. 10). Three 55-gallon waste oil drums, three 35-gallon oil drums and several five-gallon containers containing various oils and solvents were staged within this room (Photograph No. 11). Minor amounts of concrete-floor staining were observed proximate to the stored drums/containers. No floor drains appeared to be impacted by the staining. A second sewer-ejector pit (two of three on-site sewer-ejector pits) was located within the machine shop (see Photograph No. 9). According to Mr. Bizgia, the aforementioned sewer-ejector pits direct floor drain discharge to the municipal sewer system. However, this could not be confirmed during the site inspection.

A small corridor which trended in an east-west direction, and reportedly is associated with the air-intake system for the Coliseum building, adjoined the machine shop to the south. A portion of the aforementioned corridor was inspected. From within same, F&E personnel observed the grated air-intake structure (situated within the southernmost concrete planter at the exterior of the Coliseum structure [proximate to the box office entrance]) by proceeding through a cylindrical-shaped corrugated metal corridor that extended southward from the air-intake corridor. Within the poured-concrete-lined air-intake structure, several pipes and a floor drain (that appeared to be utilized to direct stormwater away from the bottom of the air-intake structure to avoid flooding and stagnant water conditions) were observed.

A second north-south corridor was observed south of the Exhibition Hall and west of the machine shop. This corridor entered into the switchgear room for the Coliseum building. Electrical service for the building originates at this point. The switchgear equipment consisted of numerous dry-type transformers.

Heat-exchange equipment was situated with a room that adjoined the corridor to the west. The heat-exchange practices at the facility are detailed below. The third sewer-ejector pit was also situated within this room. Additionally, a metal staircase ascended south to a utility chaseway situated above the mechanical area. This area contained insulated piping associated with the hot and chilled water feed and returns from the Trigen CUP (Photograph Nos. 12 and 13) and at least one floor drain. The majority of the pipe insulation was noted to consist of a fiberglass material, however, pipe joints and several smaller sections of piping was insulated with suspect friable ACM. The piping proceeded eastward for several hundred feet and then continued northward towards the Trigen CUP. The pipe corridor decreased in size north of where the pipe orientation was redirected in a northerly direction and as such, the piping could not be completely traced to the off-site Trigen CUP.

As stated above, the subgrade VIP lounge adjoins the Exhibition Hall to the west. According to Mr. Bizgia, the VIP lounge observed adjoining the Exhibition Hall is provided for use by preferred patrons during certain events. Food and beverage service, as well as television service, are provided within the room. The VIP lounge can be accessed by the Exhibition Hall (as stated earlier) or by the foyer.

The foyer of the Mechanical Level consists of a tile-floored room that serves as a connection between the northern and southern portions of the eastern side of the Coliseum building. Escalator service from the Box Office (ground floor above) to the subgrade Mechanical Level, terminates within the foyer. The above-described corridor located south of the Exhibition Hall is situated east of the foyer. Doorways leading to the VIP lounge and the SMG (the facility management company) offices were located on the northern and southern sides of the foyer, respectively.

The SMG office area consisted of typical office space and consisted of carpeted floors, suspended acoustical-tiled ceilings and painted sheetrock walls. A doorway at the southern boundary of the SMG office area emptied into a storage area.

A storage area utilized to stage basketball hoops, wooden sections of the stage utilized during on-site concert events and other facility equipment was observed south of the SMG office area. Nine 55-gallon drums of Evercool glycol were observed proximate to a door at the northeastern corner of the storage room (Photograph No. 14). According to Mr. Ed Ford, a representative of SMG, the aforementioned 55-gallon drums were associated with spare glycol for the ice generation system. An overview of ice generation activities is included below.

The door located at the southern boundary of the SMG office enters into a room utilized for ice generation purposes, and included equipment associated with same. The equipment includes a 6,000-pound freon AST (Photograph No. 15), eight 55-gallon drums of hydraulic oil and fourteen 125-pound compressed air containers of R-22 (a refrigerant) (Photograph No. 16). A hard-piped floor drain was observed within this room. Mr. Bizgia indicated that all floor drains at the facility discharge to the above-referenced three sewer-ejector pits, and ultimately to the municipal sewer system. However, the actual connection of the drains to the municipal sewer system has not been confirmed.

The above-reference storage room also continued southward and entered into a wide corridor that continued along the southern and southwestern portions of the Coliseum building. The corridor was mostly empty and connected the storage room to a large southern entrance into the arena. The corridor was likely utilized for loading/unloading activities associated with on-site events (e.g., removal of the concert stage, storage of portable food concessions, etc.), and is kept clear of materials, infrastructure and debris. However, this was not confirmed.

The corridor continued into the locker room area. The southernmost locker room is utilized by the visiting team during sporting events. The visiting athletes proceed from the locker room to the arena floor via gates located at the southwestern corner of the arena. The locker room area for the home team is situated north of the visitor locker room (Photograph No. 17). The home team enters the arena by a gate situated at the northwestern corner of the arena. The northwestern gate is also utilized for entrance and exit by musicians during concert events.

Although the home team locker rooms were not accessible to F&E personnel, the visiting team facilities were inspected. Same consisted of locker/changing rooms, showers and a lounge. The finishing materials within the corridor at this portion of the property consisted of carpeted floors, painted concrete-block walls and suspended acoustical-tiled ceilings.

A corridor proceeded northeast from the home team locker room to the loading bay. Before reaching the loading bay, several offices for SMG employees, and the elevator equipment room for the freight elevator which is situated within the subgrade loading bay, were observed (Photograph No. 18). The corridor terminates on an elevated concrete loading bay platform. The aforementioned freight elevator is situated west of the corridor entrance and allows equipment to be transported to any level of the Nassau Coliseum. A discussion of the elevator equipment is provided below.

Aramark provides food services for the Coliseum facility. The food storage area, including refrigerator/freezer units and a room-temperature storage area is situated west of the loading bay area (Photograph No. 19). The kitchen area is situated southeast of the food storage area. According to Mr. Bizgia, all food preparation activities within the Coliseum building are conducted within this kitchen (Photograph No. 20). It should be noted that the 300-Level of the structure contains a separate food service area (discussed below) utilized to accommodate the private boxes, however, food products delivered by this auxiliary food service station are prepared within the Mechanical Level kitchen.

Concourse level

This level is situated at grade level and is referred to as the Main Level as Coliseum patrons enter the structure (see Figure 2C). The Concourse area consists of a main corridor which circles the arena and contains various food/snack counters, bathrooms and merchandise booths. This area is also equipped with the box office area as well as escalators and entry gates into the arena structure. Upon entering the arena, the 200-level seats are situated above the Concourse level arena corridor and the 100-level seats are situated below via stairways. As such, patrons access both the 100- and 200-level arena seating from this entranceway.

An air-duct system was situated within the ceiling within the Concourse area corridor. Same proceeded around the entire arena and consisted of grates located within a slightly lowered ceiling situated along the arena-side of the corridor. Additionally, baseboard-heating units were observed circling the area at the window side of the corridor.

300-level Seating

The 300-level seating level of the Coliseum building was mostly unremarkable (see Figure 2D). However, at the southwestern corner of this level, Aramark (the food service providers for the facility) operated a small food service station (Photograph No. 21). According to Mr. Bizgia, although all food is prepared within the kitchen area at the Mechanical Level of the structure, this supplemental food service station provides food for the private boxes and press boxes situated at the Truss level.

Truss level

The forth floor of the facility is known as the Truss area of the Coliseum structure, and is utilized as a support area for the roof, which is suspended above the press boxes. This portion of the building also contains 32 private boxes, the press box and lounge, as well as the heating/cooling air handling equipment. The press box and lounge occupy an area in the eastern portion of the Truss level. Private boxes continue west along the southern and western side of the building and the air handling equipment is situated mostly at the northwestern and northeastern portions of the facility.

The southwestern side of the corporate box section contains an elevator that services the western private boxes as well as the press boxes and lounge. The 32 private boxes were individually furnished, and as such, all were unique in character. It should be noted that access was only gained to one private box which was improved with carpeted floors, wall-papered walls and painted sheetrock ceilings. A missing suspended-ceiling tile was observed within the private box corridor of the Truss level. Beyond the missing tile, the actual roof surface was observed to consist of an unpainted corrugated-metal ceiling.

According to Mr. Bizgia, the rooftop surface of the Coliseum building currently consists of a rubberized-membrane roof which was installed on top of mineral-compound layer.

A closed-loop chiller unit was located north of the private boxes (Photograph No. 22). According to Mr. Bizgia, same had recently been replaced. Several small (e.g., less than or equal to five gallon) containers of water treatment chemicals (e.g., Aquasperse and Biosperse), as well as an out-of-service expansion tank, were situated within the chiller room (Photograph No. 23). As stated earlier, the heating and cooling systems for the facility are operated by a closed-loop system of hot and chilled water supplied by the off-site Trigen CUP. Pneumatically-driven damper air handling units associated with the heating/cooling system were observed within the mechanical area situated north of the chiller room.

Suspect friable asbestos pipe insulation was noted on the joint area of piping within the mechanical areas of the Truss section, however, most of the pipe insulation appeared to have been replaced with fiberglass. Additionally, mechanical equipment portions of the Truss area consist of mostly unpainted surfaces. As stated earlier, the northern portion of the Truss area contains air-handling units for the facility.

The press box consisted of several rows of seating situated within the eastern portion of the arena structure at the Truss level (Photograph No. 24). Several rooms at the eastern portion of the building were designated as a lounge area for use by members of the press. A copy machine, as well as telephone equipment, were provided to the press within the lounge area to facilitate timely communication during Coliseum sporting events.

North of the Press Box, two catwalks were noted to extend westward from the northern boundary of same, over the arena floor. North, beyond the arena catwalks, a mechanical room was accessed by a north-south oriented catwalk. A set of large dry-type transformers was observed within the foregoing mechanical room (Photograph No. 25). Additionally, public utility communications equipment associated with an AT&T Wireless cellular communications facility was located proximate to the transformers. The aforementioned communications site is associated with cellular antennas mounted within the Coliseum arena to allow cellular activity within same.

The northern portion of the Truss level mechanical area was approached from both the eastern and western sides. It should be noted that F&E could not access the entire mechanical area due to the densely packed air ducts and other associated machinery.

Elevators

Four hydraulically-driven elevators (i.e., three passenger and one freight elevator) are present at the subject property. Only the eastern elevator equipment room was observed during the site inspection. The observed elevator equipment did not exhibit any staining or signs of release. The freight elevator is situated within the truck loading bay area of the facility. The passenger elevators are situated at the southern, eastern and western portions of the subject property. According to Mr. Bizgia, the pistons associated with the elevators descend to a depth of at least 30 feet. Mr. Bizgia further indicated that the hydraulically-driven elevator units were all in good working conditions with no leaks. Please note that this could not be confirmed.

Dewatering pumps

As stated earlier, portions of the Nassau Coliseum are constructed below grade level. Further, groundwater in the immediate site vicinity ranges from approximately 30-to-35-feet bgs. As such, flooding occasionally occurs within the Mechanical Level of the structure. According to Mr. Bizgia, dewatering pumps were installed to mitigate flooding issues. The aforementioned dewatering pumps are reportedly located within the vicinity of the truck loading bay, however, same were not observed during the site inspection. Water generated during the dewatering process is reportedly directed to the sewer ejector pit within the truck loading bay, and as such, discharges to the municipal sewer system. Kindly note that this could not be confirmed.

Heating, Cooling and Hot Water Generation

As stated above, all temperature-regulating activities (e.g., heating, cooling and hot water generation) utilized chilled and hot water generated by an off-site CUP. The Trigen CUP facility adjoins the subject property to the north. The chilled and hot water are provided to the Coliseum facility via underground piping which is routed east from the building (south of the Exhibition Hall) and then proceeds north to the Trigen.

The heat-exchange system operates utilizing closed-loop Trigen-supplied water. According to Mr. Bizgia, hot water from the Trigen CUP enters the Coliseum building at a temperature of 230-degrees Fahrenheit (°F). The heat-exchange system heats potable water from the municipal water supply utilizing a non-contact system which circulates the Trigen-supplied 230°F heated water around the potable water supply until the latter reaches 190°F.[8] When the potable water reaches 190°F, the Trigen-supplied water is routed back to the CUP and the 190°F potable water is circulated through the heating system. Hot water for use at the Coliseum building is also generated by the system detailed above. The heat exchange units associated with this process were observed adjacent to the switchgear room within the Mechanical Level of the building.

Heat for the facility is generated by running the heated potable water through the air handling units which allow heated air to be circulated throughout the facility. Several ceiling-mounted forced hot-air units were observed throughout the Truss level of the facility as well as within operations portions of the Mechanical Level of the structure (e.g., portions of the building not accessed by the public) (Photograph No. 26). The foregoing ceiling mounted units were observed to be hot water-supplied systems. As such, heated water was piped through coils within the unit, thus generating heated air which was then forced out of the unit via fans.

Trigen-supplied chilled water is used to cool the facility by directing the water through chiller unit observed within the Truss-level of the building. The cold air generated by the chiller unit is then discharged through the air handling units where cooled air is distributed throughout the facility.

As stated earlier, used hot and chilled non-contact, non-potable water is returned to the Trigen facility via subgrade utility tunnels that extend eastward (south of the Exhibition Hall) and then proceed north to the off-site CUP. The return piping utilizes the same tunnels that are used to provide the feed piping for the system.

[8]According to Mr Bizgia, the hot water utilized by the facility heating systems operates at a temperature of 190°F.

Plenum and Air Intake System

The Coliseum building utilizes several methods to circulate air throughout the facility. Air-intake units were identified within the outside concrete planters east of the Box Office. Plenum areas throughout the facility were also utilized for air intake. The Plenum areas consisted mostly of storage space and hallways throughout the building. The Plenum allowed the heating system to re-circulate warmer interior air within the Coliseum building to operate the heating system instead of heating colder air from exterior air-intake grates. Plenum areas were observed at the Truss, Concourse and Mechanical levels of the facility.

Ice Generation Activities

As discussed earlier, the arena subgrade ice generation equipment room is located east of a storage room located at the eastern portion of the Mechanical Level of the Coliseum facility. According to Mr. Ford, the arena ice is generated utilizing 130 coils of glycol-containing pipes which are installed beneath the arena floor. Approximately 5,000-gallons of glycol is present throughout the system. Glycol is utilized within the system because of its ability to maintain temperature, however, glycol is not inherently cold. As such, freon (R-22) is utilized to cool the glycol to appropriate temperatures. The freon was observed within an AST situated in the ice generation room.

Mr. Ford indicated that ice is manufactured by applying water to the arena floor and utilizing the glycol to freeze the water. The freon is injected utilizing a closed-loop system through piping installed adjacent to the glycol coils, thus, the temperature of the glycol is lowered. Upon freezing, artists proceed to paint any desired markings, team insignias, etc. onto the ice. Following the painting activities, additional water is applied to the arena floor and frozen in layers, thereby protecting the underlying artwork.

According to Mr. Ford, the ice is melted by heating the glycol. The glycol is heated by the introduction of hot water through the freon piping. Backhoes are then utilized to break up the ice and direct it to a large hard-piped trench drain which was observed at the southern end of the arena floor (Photograph No. 27). According to Mr. Ford, the drain discharges to the municipal sewer system, however, this could not be confirmed at the time of the site inspection.

Sewer-Ejector Pit

According to Mr. Bizgia, all hard-piped interior floor drains within the Nassau Coliseum are directed towards one of three sewer-ejector pits. The foregoing pits are located within the loading bay, the heat-exchange equipment room and within the machine shop/routine building maintenance room, and were all observed by F&E during the site inspection. Mr. Bizgia further stated that the sewer-ejector pits discharge to the municipal sewer system. As such, all material released into the floor drains is reportedly discharged to the municipal sewer system. Again, this could not be confirmed.

Exterior Observations

As indicated in Section 4.1, a representative of the NCDPW indicated that the municipal sewer system connections servicing the Nassau Coliseum property are present at the northern and southern portions of the subject property. Based upon a diagram provided by the NCDPW (and included herewith in Appendix C), a small gated area was observed at the southern boundary of the subject property, proximate to the reported southern location of the municipal sewer system connection from the property.

The gated area could not be accessed as same was surrounded by a barbed-wire equipped chain-link fence. Through gaps in the fencing, F&E observed what appeared to be a sanitary cleanout (Photograph No. 28). Further, a solid manhole cover and associated linear asphalt-repairs, trending towards the suspect sanitary cleanout, were observed approximately 75-feet north of the shed (Photograph No. 29). The solid manhole cover was likely associated with a municipal sewer easement that transects the subject property, however, this could not be confirmed.

Three solid metal covers were observed at the southern exterior of the box office. Same were associated with the access points and a fill port associated with a reportedly 1,000-gallon diesel UST utilized to fuel the on-site diesel-fired emergency generator (discussed earlier) (Photograph No. 30). The vent pipe for the tank was observed proximate to the exterior wall of the Coliseum structure, west of the fill port. Additionally, two solid covers labeled "monitoring well" were situated within the immediate vicinity of the tank. As the covers could not be opened, the presence of monitoring wells could not be visually confirmed. Since no releases have been documented in association with this in-service UST, these wells were likely utilized as part of the leak detection system.

It should be noted that NCFM documentation indicated the former presence of a 1,000-gallon diesel UST within the southernmost concrete-lined planter at the eastern exterior of the building. The aforementioned UST was reportedly removed circa 1987. The reported former location of the UST was inspected by F&E personnel, however, no evidence of the former UST was observed.

A locked-fenced storage area was observed at the northern exterior of the concrete ramp associated with the truck loading bay. Same could not be accessed, however, several compressed propane gas tanks were visible (Photograph No. 32). No significant staining or odors were noted within the immediate vicinity of the fenced area.

As indicated within historic topographic maps and aerial photographs, the southwestern-most portion of the subject property was formerly equipped with sewage treatment beds. This portion of the subject property was inspected during the January 2005 site inspection, and was observed to be improved with an asphalt-paved parking area (Photograph No. 33). This portion of the property was generally unremarkable with no visual evidence of the former usage of this area observed.

Two concrete pad-mounted transformers were situated proximate to the southern boundary of the subject property, along Hempstead Turnpike (Photograph No. 34). No staining or evidence of release was noted proximate to the transformers. It should be noted that no survey markers were visible which indicated the location of the southern property boundary, and the transformers were situated south of a chain-link fence. As such, it could not be determined if the aforementioned transformers were located on the southernmost portion of the subject property or on the southerly adjoining property. The reverse-pressure zone (RPZ) unit for the facility was situated within a poured-concrete box located at the northwestern exterior of the building, south of the truck loading bay ramp (Photograph No. 35).

Throughout the parking area, several open metal-grates were observed which were utilized to handle stormwater generated within the asphalt-paved parking lot. Same appeared to be catch basins, and therefore, did not drain in-situ. Piping was observed within all of the inspected stormwater grates. As such, an underground network of piping likely connects all of the catch basins. A representative of the NCDPW indicated that throughout Nassau County (including the subject property) all stormwater generated on-site must remain on-site. The potential exists that a recharge basin located on the former Mitchell Field facility receives stormwater discharge from the Nassau Coliseum property, however, the presence of same was not confirmed or observed during the site inspection. Several stormwater leaching structures may potentially be located throughout the subject property. Again, this was unconfirmed. The actual method of stormwater abatement cannot be confirmed without further site investigation at the facility.

6.2 Surrounding Land Use

North: Charles Lindberg Boulevard and Trigen.

South: Hempstead Turnpike, EAB Plaza, a Sunoco gasoline station and various one- and two-story commercial uses.

East: The Marriott Hotel and James Doolittle Boulevard.

West: Hofstra University.

(Photograph Nos. 36 through 40)

6.3 Interviews

Mr. Ben Bizgia, the Nassau Coliseum Operations Manager, and Mr. Ed Ford, a representative of SMG, provided pertinent information which is contained within the Site Inspection section of this Phase I ESA.

6.4 Summary of Environmental Site Features

6.4.1 Hazardous Materials Handling, Storage and Disposal

As early as 1918, and until the 1960s, the subject property was utilized as a military air base. The sewage treatment beds associated with the facility were situated at the southwestern-most portion of the subject property. Such facilities typically utilize aviation fuel, jet fuel, as well as other associated petroleum products/solvent associated with the operation and maintenance of aircraft. The aforementioned petroleum products/solvent have the potential to have impacted surficial soils throughout the subject property as well as the bottom sediments within the former sewage treatment beds, as sanitary waste from the facility was historically discharged there. In fact, the former Mitchell Field is designated as a New York State HSWDS and an IHWDS.

Scattered hazardous material containers and drums associated with facility operations at the Nassau Coliseum were observed during the site inspection. Details concerning representative examples of the stored hazardous materials are detailed below. It should be noted that as interior floor and trench drains within the facility reportedly discharge to the municipal sewer system via three sewer-ejector pits (located within the machine shop, the truck loading bay and the heat exchange equipment room). Additionally, staged hazardous material containers/drums exhibited only minor staining (if any). Based on the foregoing, F&E does not believe that the stored hazardous materials identified within the facility have the potential to have adversely impacted site conditions. However, it should also be noted that due to the aggregate amount of stored containers/drums at the site, the facility is required by NCDH Article XI to register as a Bulk Storage Facility.

Three 55-gallon waste oil drums, three 35-gallon cylinder oil drums and several five-gallon drums containing various oils and solvents were staged within the Mechanical Area located south of the Exhibition Hall. Nine 55-gallon drums of Evercool glycol were observed proximate to a door at the northeastern corner of the storage room which adjoined the ice-generating equipment room. Eight 55-gallon drums of hydraulic oil and 14 125-pound compressed air containers of R-22 (a refrigerant) were observed within the ice-generating room. Additionally, several small (e.g., less than or equal to five gallon) containers of water treatment chemicals (e.g., Aquasperse and Biosperse) were identified within the chiller room in the Truss level of the facility.

6.4.2 Underground and Above Ground Storage Tanks

The facility is registered with the NYSDEC as maintaining an underground storage tank registration. However, for security reasons, the NCFM did not disclose specific information concerning on-site tank(s). As such, the facility was given a confidential status.

During the January 2005 site inspection, north of the box office at the exterior of the Nassau Coliseum structure, three solid manhole covers associated with a fill port and access to a reportedly 1,000-gallon diesel UST which was utilized by a diesel-fired emergency generator located within the structure. A vent pipe associated with the UST was observed adjacent to the building exterior west of the solid manhole covers.

According to information provided by the NCFM, a 1,000-gallon diesel UST was reportedly installed in 1973 and removed in 1987. The foregoing UST was reportedly located within the southernmost concrete-bounded planter area situated east of the box office. The tank was removed subsequent to failing three tightness tests, all in 1987. Two NYSDEC Spill numbers were assigned as a result of the tightness tests (Spill Nos. 87-01759 and 87-02169). Based upon a Flammable/Combustible Liquid Storage Tank Registration, dated September 29, 1987, which indicates the presence of two registered 1,000-gallon USTs, it appears that the replacement 1,000-gallon diesel UST (detailed above) was installed prior to the removal of the leaking UST. No records indicating the presence of a NCFM/NYSDEC representative at the tank removal were observed within the file.

6.4.3 Utilities and Sanitary and Stormwater Disposal Facilities

Utilities Provided to the Subject Property

- Electricity via underground distribution lines.
- Telephone service via underground distribution lines.
- Natural gas via underground distribution lines.
- Potable water via underground distribution lines.

Sanitary and Stormwater Disposal Systems

- The NCDPW provided F&E with a printout detailing the locations of solid manhole covers and sewer lines associated with the municipal sewer system. Same indicated that facility sanitary waste is discharged via the municipal sewer system points to the north and south of the property, along Hempstead Turnpike and Charles Lindberg Boulevard, respectively. This agency also indicated that the property was connected to the municipal sewer system at the time of its construction. As such, no on-site sanitary system was utilized by the Nassau Coliseum facility.

- Although no details concerning the method of stormwater abatement were maintained by this agency. A representative of the NCDPW indicated that no municipal stormwater sewer system exists to service Nassau County. The NCDPW representative further stated that regulations regarding stormwater for Nassau County dictate that stormwater generated at a facility must remain on-site. Facility personnel were unaware of the details of the facility's stormwater abatement system and no final on-site discharge point for stormwater has observed on the subject property. As such, the potential exists that a recharge basin located on the former Mitchell Field facility receives stormwater discharge from the Nassau Coliseum property, however, such a basin was not observed during the site inspection. Several stormwater leaching structures may potentially be located throughout the subject property. Again, this was unconfirmed. The exact method of stormwater abatement cannot be confirmed without further site investigation at the facility.

6.4.4 Underground Injection Control Program-Regulated Site Features

Underground injection wells are regulated by the Underground Injection Control (UIC) Program under the authority of Part C of the Safe Drinking Water Act (SDWA) (42 U.S.C. 300h *et seq*). The SDWA is designed to protect the quality of drinking water in the United States, and Part C specifically mandates the regulation of underground injection fluids through wells. The USEPA has promulgated a series of UIC regulations under this authority. Recent applicable revisions to UIC regulations were published in the State Implementation Guide - Revisions to the Underground Injection Control Regulations for Class V Injection Wells, September 2000. This document specifically addresses Class V injection wells which include on-site wastewater disposal features such as drywells, cesspools and in-situ drains.

The USEPA issued a Notice of Final Determination for Class V wells; Final Rule on June 7, 2002.

With the exception of motor vehicle waste disposal wells and large-capacity cesspools, Class V wells are "authorized by rule" (40 CFR 144.24) and may inject non-hazardous waste as long as the following criteria are met:

- The injection does not endanger underground sources of drinking water (40 CFR 144.12); and

- The well owners or operators submit basic inventory information (40 CFR 144.26).

The EPA *may* , at its discretion, require the owner or operator of any well authorized by rule to submit information for review to determine if a well may be endangering an underground source of drinking water. In regard to motor vehicle waste disposal wells and large capacity cesspools (those that serve more than 20 persons per day), owners and/or operators of such wells in regulated areas must close the wells or obtain a permit. These requirements are being phased-in through 2008. Owners and operators of large-capacity cesspools must close same by April 5, 2005.

Numerous hard-piped floor drains were identified during the site inspection. If same were confirmed to be directed to the municipal sewer system via three on-site sewer-ejector pits, the interior floor drains would not represent a violation of the USEPA UIC Program. It should be noted that the discharge piping of the floor drains was not confirmed during the site inspection. Further, the discharge point of stormwater generated on-site could not be determined. As such, the potential exists for parking lot stormwater to be discharged to on-site in-situ leaching structures. At least one interior floor drain was impacted by releases from on-site machinery.

One NYSDEC spill file (Spill No. 93-12784) was reportedly associated with an on-site spill that occurred as a result of an inadvertent discharge of gasoline from a vehicle parked on-site. Due to the large number of vehicles typically parked on-site, as well as truck traffic throughout the facility, the potential exists for stormwater generated on-site to have been impacted by various inadvertent releases associated with same. If storm water is determined to discharge to on-site structures, bottom sediments within any associated leaching structures would have the potential to be impacted in contravention of the USEPA UIC Program.

6.4.5 Potable Water Supply and On-Site Wells

The overall property is provided potable water by the Town of Hempstead Water District. Two monitoring wells, likely associated with leak detection system for the existing 1,000-gallon diesel UST, were observed proximate to the solid manhole covers associated with same.

6.4.6 Polychlorinated Biphenyls

PCBs were used until 1978 and are a group of compounds formed by the chlorination of biphenyl. PCBs have extremely high physical and chemical stabilities which led to their being used in many applications, including heat transfer fluids, hydraulic fluids, and dielectrics. PCBs are often found in transformers, capacitors and hydraulic systems.

Dry transformers were observed within the Truss level of the building. Additional transformers were identified within the switchgear room located at the Mechanical Level of the structure. According to Mr. Bizgia, all on-site transformers were dry, and as such, do not contain PCBs. Additionally, fluorescent lighting ballasts observed within the Nassau Coliseum have the potential to contain PCB-contaminated fluids.

The four elevators utilized as the facility are powered by hydraulically-driven systems. Hydraulic fluid has the potential to contain PCBs. Additionally, several small containers (e.g., less than five gallons in size) of cylinder oil and hydraulic oil, associated with on-site maintenance activities, were identified during the January 2005 site inspection. As no significant amounts of staining was observed proximate to any of the aforementioned stored containers and as interior floor drains reportedly discharge to the municipal sewer system, F&E does not believe that the small containers of potentially PCB-containing fluids have the potential to have adversely impacted subsurface conditions within the site vicinity.

According to Mr. Bizgia, the hydraulically-driven pistons associated with the elevators descended to a depth of at least 30-feet bgs. Mr. Bizgia further stated that the elevator units were all in good working order and did not contain any leaks. This could not be confirmed during the site inspection. As such, the potential exists for releases of hydraulic oil to be associated with the pistons.

Three open-grate covers were observed within the loading bay. Due to the presence of debris within the structures, it could not be determined if same were hard-piped or drained in-situ. A dumpster was situated between two of the aforementioned open-grate covers. Hydraulic fluid was noted to have leaked to the poured concrete floor proximate to the compaction equipment of the dumpster. The oil and associated staining was observed proximate to two of the three covers. As such, the potential exists for inadvertent releases associated with the dumpster to have impacted the aforementioned truck loading bay drains and their ultimate discharge points.

6.4.7 Debris, Dumping and Surficial Staining

No debris or dumping was observed throughout the subject property. Within the machine shop, three 55-gallon waste oil drums, three 35-gallon cylinder oil drums and several five-gallon drums containing various oils and solvents were staged. Minor amounts of concrete-floor staining were observed proximate to the stored drums/containers. Kindly note that floor drains within this room were hard-piped. No significant amounts of staining were observed at the facility.

6.4.8 Stressed Vegetation

No stressed vegetation was observed at the subject property.

7.0 NON-SCOPE CONSIDERATIONS

7.1 Radon

Indoor Radon Potential

The NYSDOH publication, Indoor Radon in New York State: Distribution, Source and Controls (November, 1990) was reviewed to determine the indoor radon potential.

According to the NYSDOH report, Long Island is part of the broader Atlantic Coastal Plain. The geometric mean basement radon concentration in Nassau County ranges between 0.0 and 1.9 picocuries per liter (pCi/L). The EPA remedial action level is 4.0 pCi/L.

The NYSDOH publication states that, in general, the radium content of the soils on Long Island is "... below average and their permeability is moderate to low. Based on these conditions, the entire island can be classified as having a low indoor radon potential."

The report also states that, "... a number of the boulders in the moraines have been identified emitting high levels of gamma radiation indicating the presence of uranium. These boulders are indicative of the sources for the sand and pebbles that cover most of the island. Isolated concentrations of uranium and radium may exist within the outwash deposits by way of the fluvial process that deposited the sand. Homes built on or into these concentrations may possess elevated indoor radon levels."

As there is no exposed rock in the vicinity, it is unlikely that radon is a problem in this area.

7.2 Lead-Based Paint

A lead-based paint survey is being conducted at the subject property by Enviroscience Consultants, Inc. (Enviroscience). However, due to access issues, the aforementioned survey was not completed prior to the date of issuance of this report. As such, the lead-based survey will be forwarded as an addendum to this report.

7.3 Asbestos-Containing Materials (ACM)

Asbestos is the name given to a group of fibrous silicate minerals, typically those of the serpentine group. The tensile strength, flexibility, and non-flammability of asbestos have led to many uses including structural materials, brake linings, insulation, and pipe manufacture. Asbestos is of concern as an air pollutant because when inhaled it may cause asbestosis, mesothelioma, and bronchogenic carcinoma. In 1989, the USEPA announced regulations that would phase out most uses of asbestos by 1996.

Enviroscience is preparing an ACM survey of the subject property. Again, due to access issues, the survey could not be completed prior to the issuance of this Phase I ESA. The ACM survey will be forwarded as an addendum to this report upon receipt.

7.4 Wetlands

According to Map 10 of 15 of the NYSDEC Freshwater Wetlands Maps of Nassau County, there are no regulated freshwater wetlands or associated adjacent areas on or abutting the property. According to National Wetlands Inventory Map No. 306, there are no NWI-designated wetlands situated on or adjoining the subject property. There are no tidal wetlands associated with the site vicinity.

7.5 Special Groundwater Protection Area (SGPA)

SGPAs are significant, largely undeveloped or sparsely developed geographic areas of Long Island that provide recharge to portions of the deep flow aquifer system. They represent a unique, final opportunity for comprehensive, preventive management to preclude or minimize land use activities that can have a deleterious impact on groundwater. Nine SGPAs are located on Long Island: North Hills, Oyster Bay, West Hills/Melville, Oak Brush Plains, South Setauket Woods, Central Suffolk, Southold, South Fork and Hither Hills.

The subject property is not located within the boundaries of an SGPA.

8.0 FINDINGS

This document is a Phase I ESA prepared by F&E to determine RECs and/or PECs for an approximately 83-acre parcel of land currently improved with the Nassau Veterans Memorial Coliseum (Nassau Coliseum) and associated asphalt-paved parking areas located at 1255 Hempstead Turnpike (a.k.a. New York State Route 24 and Fulton Street), Hamlet of Uniondale, Town of Hempstead, Nassau County, New York. The subject property is situated at an elevation of approximately 75-to-80-feet above msl and depth to groundwater is estimated to range from 30-to-35-feet bgs.

The subject property was improved as part of an army airfield as early as 1918. In 1947, seven sewage filter beds were visible at the southwestern corner of the subject property, proximate to Hempstead Turnpike. At least four settling tanks associated with the sewage treatment plant, are visible north of the filter beds on the subject property. One large and five small airplane runways, as well as associated taxi ways and aircraft aprons/pads, were present throughout the site. Mitchell Field was taken out-of-service prior to 1969.

By 1972, the existing Nassau Coliseum was constructed, and was reportedly connected to the municipal sewer system at the time of its construction. A 1,000-gallon diesel UST was reportedly installed in 1973 and removed in 1987 as a result of failing three tightness tests in 1987. Two NYSDEC Spill numbers were assigned to the failing of the tightness tests. A replacement 1,000-gallon diesel UST located south of the box office portion of the building, was installed prior to the removal of the leaking UST, which was apparently removed without appropriate regulatory oversight.

Nassau County Tax Map Section 44 – Block F – Lot No. 326 is owned by the County of Nassau and is also bounded by the same streets as the subject property. However, this parcel is considered an out-parcel and is not detailed within this Phase I ESA. According to Nassau County Tax Assessor Records, the out-parcel lot totals 8.3680-acres in size. The parcel is improved with a 184,448-s.f. hotel building constructed in circa 1982 (utilized as a Marriott Hotel). The building is reportedly owned and operated under a land-lease by Marriott International, Inc. while the property is owned by the County of Nassau. Again, the Marriott property (Lot No. 326) is not considered part of the subject property and is not detailed within this report.

The facility has been in consistent operation as a sports/concert/entertainment arena since its construction circa 1972. The portion of the property formerly containing the sewage treatment facility for Mitchell Field military air base were removed by 1969. This area was observed by F&E to be improved with an asphalt-paved parking area during the January 2005 site inspection.

Several NYSDEC spill files are associated with the subject property. Details concerning the aforementioned Spill incidents are detailed below. Spill Nos. 87-01759 and 87-02169 (also reported on the LUST database were reported on June 2 and 16, 1987, respectively when a 1,000-gallon diesel UST failed two separate tightness tests.[9] The UST was removed and approximately five-gallons of impacted soil was stockpiled. These incidents were noted within the NCFM records reviewed by F&E. See Section 4.1 for details. The spill files were reportedly closed by the NYSDEC.

[9] Please note that NCFM records indicated that the former UST failed three tightness tests in 1987 prior to the removal of same.

Nassau Coliseum, Spill No. 01-25233. The spill was reported on October 22, 2001 when approximately 700-gallons of ethylene glycol (a material utilized within the cooling system for the facility) was released into the sewer system as a result of a pipe breakage. The spill file was closed by the NYSDEC on October 22, 2001. It should be noted that the foregoing incident also appeared on the Releases (Air/Water) database. However, no additional information was provided within the listing.

R.A. Sommerville, Spill No. 93-12784. The spill was reported on January 30, 1994 when the fuel tank of a parked passenger vehicle leaked causing 20-gallons of gasoline to spill to the surface of the parking lot. No drains were reportedly impacted and the spill was closed by the NYSDEC on January 31, 1994.

The facility was also reported on the RUST database. However, due to non-disclosure by the Nassau County Fire Marshal's office, a confidential status is invoked. As such, no additional information regarding the listing was provided.

As early as 1918, and until the 1960s, the subject property was utilized as a military air base. The sewage treatment beds associated with the facility were situated at the southwestern-most portion of the subject property. Such facilities typically utilize aviation fuel, jet fuel, as well as other associated petroleum products/solvents associated with the operation and maintenance of aircraft. The aforementioned petroleum products/solvents have the potential to have impacted surficial soils throughout the subject property as well as the bottom sediments within the former sewage treatment beds, as sanitary waste from the facility was historically discharged there. In fact, Mitchell Field is registered as a New York State HSWDS and IHWDS.

Scattered hazardous material containers and drums associated with facility operations at the Nassau Coliseum were observed during the site inspection. Details concerning representative examples of the stored hazardous materials are detailed below. It should be noted that as interior floor and trench drains within the facility reportedly discharge to the municipal sewer system via three sewer-ejector pits (located within the machine shop, the truck loading bay and the heat exchange equipment room). Additionally, staged hazardous material containers/drums exhibited only minor staining (if any). Based on the foregoing, F&E does not believe that the stored hazardous materials identified within the facility have the potential to have adversely impacted site conditions. However, it should also be noted that due to the aggregate amount of stored containers/drums at the site, the facility is required by NCDH Article XI to register as a Bulk Storage Facility.

Three 55-gallon waste oil drums, three 35-gallon cylinder oil drums and several five-gallon drums containing various oils and solvents were staged within the Mechanical Area located south of the Exhibition Hall. Nine 55-gallon drums of Evercool glycol were observed proximate to a door at the northeastern corner of the storage room which adjoined the ice-generating equipment room. Eight 55-gallon drums of hydraulic oil and 14 125-pound compressed air containers of R-22 (a refrigerant) were observed within the ice-generating room. Additionally, several small (e.g., less than or equal to five gallon) containers of water treatment chemicals (e.g., Aquasperse and Biosperse) were identified within the chiller room in the Truss level of the facility.

The facility is registered with the NYSDEC as maintaining an underground storage tank registration. However, for security reasons, the NCFM did not disclose specific information concerning on-site tank(s). As such, the facility was given a confidential status.

During the January 2005 site inspection, north of the box office at the exterior of the Nassau Coliseum structure, three solid manhole covers associated with a fill port and access to a reportedly 1,000-gallon diesel UST which was utilized by a diesel-fired emergency generator located within the structure. A vent pipe associated with the UST was observed adjacent to the building exterior west of the solid manhole covers.

According to information provided by the NCFM, a 1,000-gallon diesel UST was reportedly installed in 1973 and removed in 1987. The foregoing UST was reportedly located within the southernmost concrete-bounded planter area situated east of the box office. The tank was removed subsequent to failing three tightness tests, all in 1987. Two NYSDEC Spill numbers were assigned as a result of failing tightness tests (Spill Nos. 87-01759 and 87-02169). Based upon a Flammable/Combustible Liquid Storage Tank Registration, dated September 29, 1987, which indicates the presence of two registered 1,000-gallon USTs, it appears that the replacement 1,000-gallon diesel UST (detailed above) was installed prior to the removal of the leaking UST. No records indicating the presence of a NCFM/NYSDEC representative at the tank removal were observed within the file.

The NCDPW provided F&E with a printout detailing the locations of solid manhole covers and sewer lines associated with the municipal sewer system. Same indicated that facility sanitary waste is discharged via the municipal sewer system to points to the north and south of the property, along Hempstead Turnpike and Charles Lindberg Boulevard, respectively. This agency also indicated that the property was connected to the municipal sewer system at the time of its construction. As such, no on-site sanitary system was utilized by the Nassau Coliseum facility.

Although no details concerning the method of stormwater abatement were maintained by this agency. A representative of the NCDPW indicated that no municipal stormwater sewer system exists to service Nassau County. The NCDPW representative further stated that regulations regarding stormwater for Nassau County dictate that stormwater generated at a facility must remain on-site. Facility personnel were unaware of the details of the facility's stormwater abatement system and no final on-site discharge point for stormwater was observed on the subject property. As such, the potential exists that a recharge basin located on the former Mitchell Field facility receives stormwater discharge from the Nassau Coliseum property, however, no such basin was observed during the site inspection. Several stormwater leaching structures may potentially be located throughout the subject property. Again, this was unconfirmed. The exact method of stormwater abatement cannot be confirmed without further site investigation at the facility.

Numerous hard-piped floor drains were identified during the site inspection. If same were confirmed to be directed to the municipal sewer system via three on-site sewer-ejector pits, the interior floor drains would not represent a violation of the USEPA UIC Program. It should be noted that the discharge piping of the floor drains was not confirmed during the site inspection. Further, the discharge point of stormwater generated on-site could not be determined. As such, the potential exists for parking lot stormwater to be discharged to on-site in-situ leaching structures. At least one interior floor drain was impacted by releases from on-site machinery.

One NYSDEC spill file (Spill No. 93-12784) was reportedly associated with an on-site spill that occurred as a result of an inadvertent discharge of gasoline from a vehicle parked on-site. Due to the large number of vehicles typically parked on-site, as well as truck traffic throughout the facility, the potential exists for stormwater generated on-site to have been impacted by various inadvertent releases associated with same. If storm water is determined to discharge to on-site structures, bottom sediments within any associated leaching structures would have the potential to be impacted in contravention of the USEPA UIC Program.

The overall property is provided potable water by the Town of Hempstead Water District. Two monitoring wells, likely associated with leak detection system for the existing 1,000-gallon diesel UST, were observed proximate to the solid manhole covers associated with same.

Dry transformers were observed within the Truss level of the building. Additional transformers were identified within the switchgear room located at the Mechanical Level of the structure. According to Mr. Bizgia, all on-site transformers were dry, and as such, do not contain PCBs. Additionally, fluorescent lighting ballasts observed within the Nassau Coliseum have the potential to contain PCB-contaminated fluids.

The four elevators utilized as the facility are powered by hydraulically-driven systems. Hydraulic fluid has the potential to contain PCBs. Additionally, several small containers (e.g., less than five gallons in size) of cylinder oil and hydraulic oil, associated with on-site maintenance activities, were identified during the January 2005 site inspection. As no significant amounts of staining was observed proximate to any of the aforementioned stored containers and as interior floor drains reportedly discharge to the municipal sewer system, F&E does not believe that the small containers of potentially PCB-containing fluids have the potential to have adversely impacted subsurface conditions within the site vicinity.

Three open-grate covers were observed within the loading bay. Due to the presence of debris within the structures, it could not be determined if same were hard-piped or drained in-situ. A dumpster was situated between two of the aforementioned open-grate covers. Hydraulic fluid was noted to have leaked to the poured concrete floor proximate to the compaction equipment of the dumpster. The oil and associated staining was observed proximate to two of the three covers. As such, the potential exists for inadvertent releases associated with the dumpster to have impacted the aforementioned truck loading bay drains and their ultimate discharge points.

According to Mr. Bizgia, the hydraulically-driven pistons associated with the elevators descended to a depth of at least 30-feet bgs. Mr. Bizgia further stated that the elevator units were all in good working order and did not contain any leaks. This could not be confirmed during the site inspection. As such, the potential exists for releases of hydraulic oil to be associated with the pistons.

No debris or dumping was observed throughout the subject property. Within the machine shop three 55-gallon waste oil drums, three 35-gallon cylinder oil drums and several five-gallon drums containing various oils and solvents were staged. Minor amounts concrete-floor of staining were observed proximate to the stored drums/containers. Kindly note that floor drains within this room were hard-piped. No significant amounts of staining were observed at the facility.

Lead-based paint and asbestos surveys are being conducted at the subject property by Enviroscience Consultants, Inc. (Enviroscience). However, due to access issues, the aforementioned survey was not completed prior to the date of issuance of this report. As such, the aforementioned surveys will be forwarded under separate cover.

The subject property is not reported on listings, databases, or registries of Superfund Sites, known or suspected hazardous waste disposal sites, hazardous waste transporters or disposal facilities, hazardous waste generators or facilities with reported environmental violations.

9.0 CONCLUSIONS

This Phase I Environmental Site Assessment has been prepared in conformance with the scope and limitations of ASTM Practice E1527-00 for an approximately 83-acre parcel currently improved with the Nassau Veterans Memorial Coliseum (Nassau Coliseum) and associated asphalt-paved parking areas located at 1255 Hempstead Turnpike (a.k.a. New York State Route 24 and Fulton Street), Hamlet of Uniondale, Town of Hempstead, Nassau County, New York. Any exceptions to, or deletions from, this practice are described in the section of the report entitled Methodology. This assessment did not reveal recognized environmental conditions (as defined by ASTM Practice E1527) or potential environmental concerns for the subject property, with the exception of the following:

- As early as 1918, and until the 1960s, the subject property was utilized as a military air base. The sewage treatment beds associated with the facility were formerly situated at the southwestern-most portion of the subject property. Air bases typically utilize aviation fuel, jet fuel, as well as other associated petroleum products/solvents associated with the operation and maintenance of aircraft. The aforementioned petroleum products/solvents have the potential to have impacted soil and groundwater throughout the subject property as well as the bottom sediments within the former sewage treatment beds, as sanitary waste from the facility was historically discharged there;

- The final discharge point(s) for facility-derived stormwater could not be confirmed. Further, due to the NYSDEC Spill reports associated with incidents within the parking area, the large number of vehicles typically parked on-site, as well as truck traffic throughout the facility, the potential exists for stormwater generated on-site to have been impacted by various inadvertent releases associated with same. Based upon the size of the facility, the costs to remediate impacts (if any) to any associated leaching structures could be significant. As such, F&E recommends any plans regarding the handling of stormwater at the facility be provided to F&E for review to determine the final discharge point of same. If no such plans are made available, F&E recommends that same be investigated through dye-testing, line tracing, geophysical surveying and sampling/analysis of bottom sediments;

- Due to the aggregate amount of drums/containers stored on-site, the facility is required by law to be registered as a Bulk Storage Facility in accordance with NCDH Article XI;

- The hard-piped floor drains identified within the interior of the facility reportedly discharge to one of the three on-site sewer-ejector pits and subsequently to the municipal sewer system. This could not be confirmed;

- Visually-impacted stormwater abatement structures observed within the loading bay were filled with debris. As such, it could not be confirmed if same were hard-piped. F&E recommends that the foregoing structures be cleared of debris to allow for inspection of same;

- According to NYSDEC Spill No. 01-25233, approximately 700-gallons of ethylene glycol was released from the closed-loop system beneath the arena floor. The integrity of the aforementioned system is unknown;

- The integrity of the pistons associated with the hydraulically-powered elevators is unknown. As such, releases of hydraulic oil may have impacted soil and/or groundwater;

- No representation could be made regarding the integrity of the 1,000-gallon diesel UST situated at the exterior of the building south of the box office; and

- No documentation was identified regarding soil and groundwater conditions within and proximate to the tank grave of the former 1,000-gallon diesel UST, which was reportedly removed in 1987 subsequent to failing two tightness tests.

Based upon the aforementioned potential environmental concerns, F&E recommends that a Phase II ESA be conducted at the subject property. The Phase II ESA should include:

- Performance of soil and groundwater sampling in the vicinity of the former Mitchell Field sewage treatment beds (the southwestern corner of the subject property);

- Performance of an upgradient and downgradient groundwater sampling program. This will identify significant impacts to same due to the historic Mitchell Field facility, potential impacts of PCBs associated with the pistons utilized by the hydraulically-driven elevators, as well as to determine any impacts due to releases from the glycol piping situated beneath the arena floor;[10]

- Performance of soil and groundwater sampling in the vicinity of the tank grave associated with the former 1,000-gallon diesel UST;

[10] In the event that groundwater is shown not to be impacted, any un-identified soil impacts (e.g., those associated with former military uses) would likely be restricted to the unsaturated zone and could be relatively easily remediated.

- Performance of a tightness test to confirm the integrity of the in-service 1,000-gallon diesel UST; and

- In the event that stormwater is found to discharge to on-site structures, F&E recommends the performance of a geophysical survey to map out the leaching structure network associated with same. Additionally, bottom sediment samples from within any identified leaching structures should be collected and analyzed.

10.0 REFERENCES

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USGS Topographic Map, Freeport Quadrangle.

Water Table Contours and Locations of Observation Wells in Suffolk County, New York, Suffolk County Department of Health Services, Division of Environmental Quality, March 1999.

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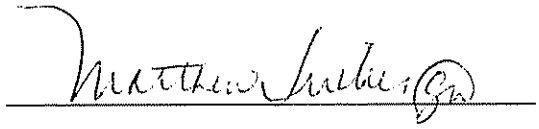
Freudenthal & Elkowitz Consulting Group, Inc.

Signature: 

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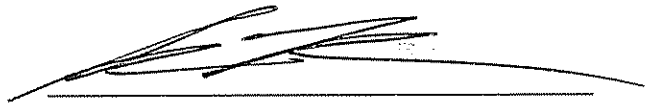
Signature: 

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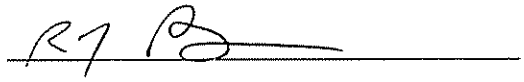
Signature: 

APPENDIX A

Figure 1 - Site Location Map

Data use subject to license
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TN
MN (13.5°W)

Scale 1 : 25,000
1" = 2,083.3 ft
Data Zoom 13-0

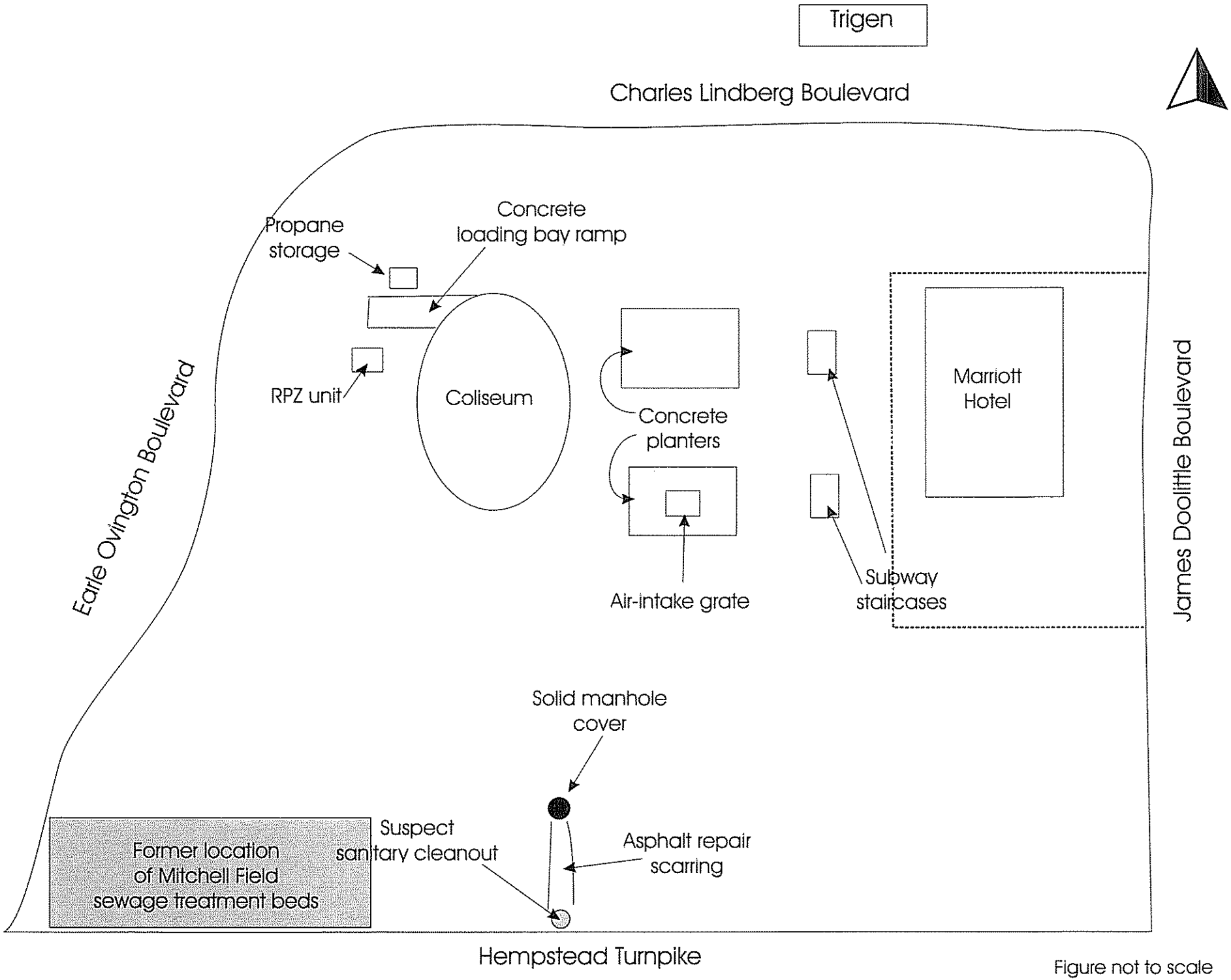


Figure not to scale

FREUDENTHAL & ELKOWITZ CONSULTING GROUP, INC.

Figure 2A - Site Details: Exterior

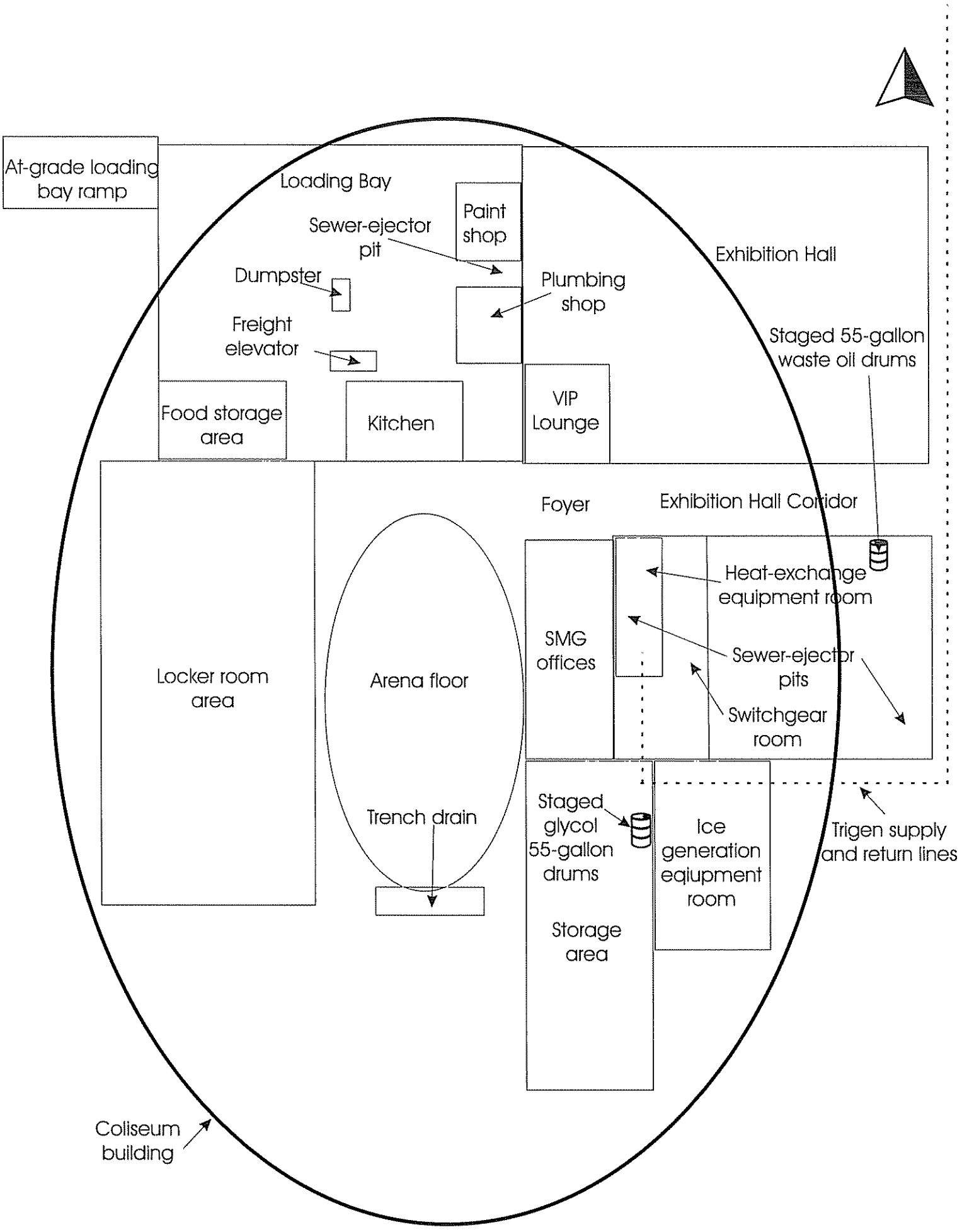
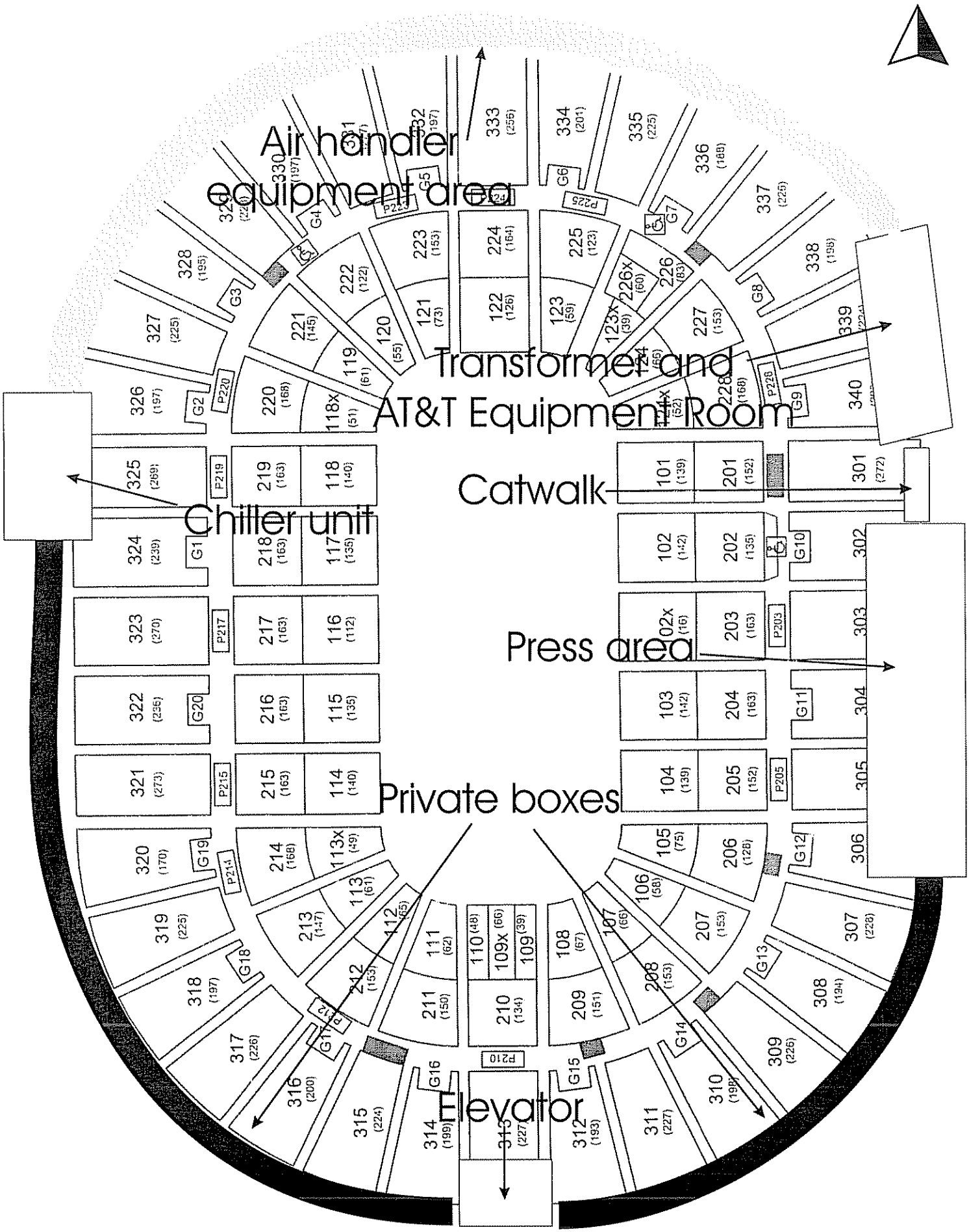


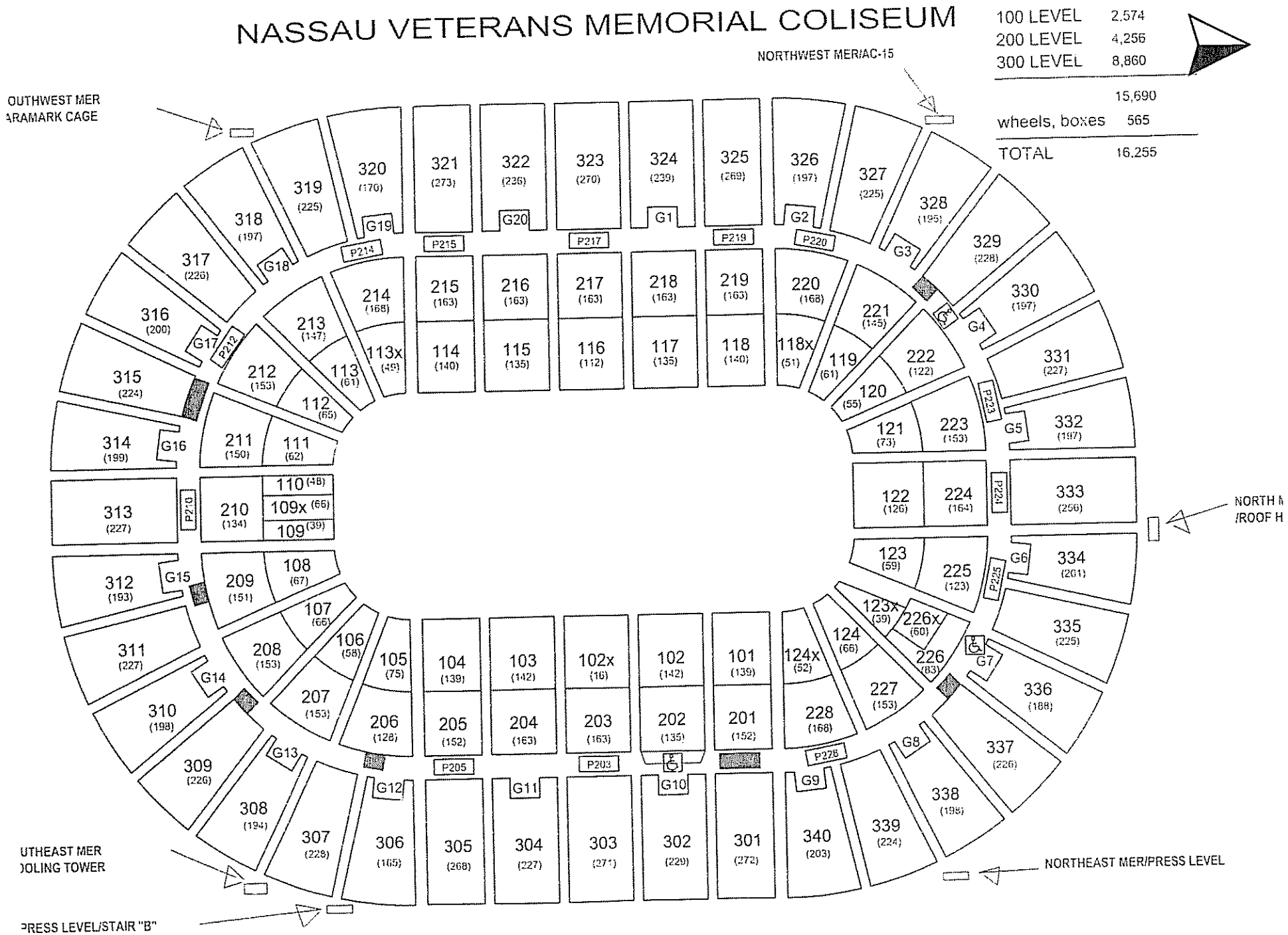
Figure Not to Scale

FREUDENTHAL & ELKOWITZ CONSULTING GROUP, INC. Figure 2B - Site Details: Mechanical Level



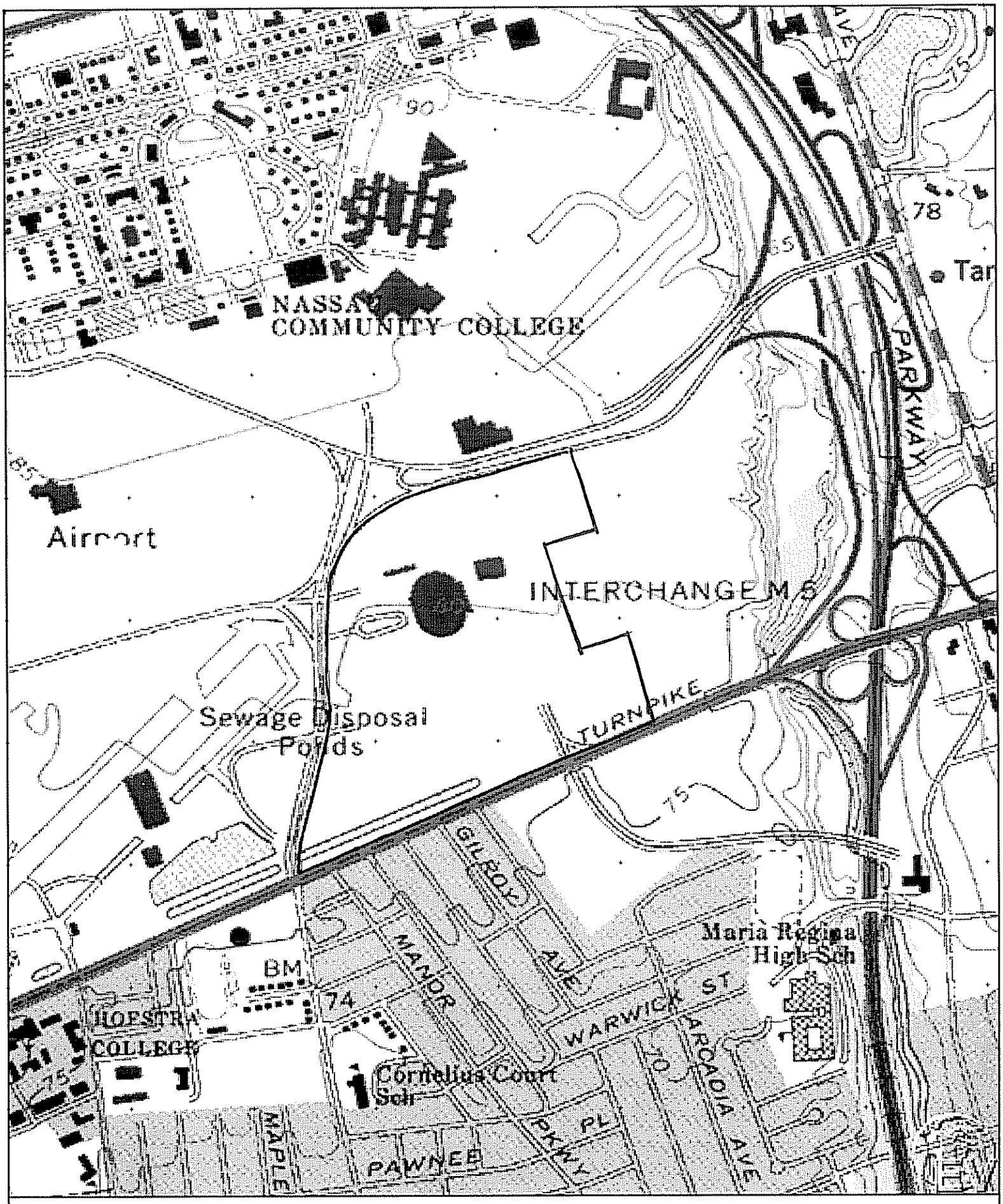
FREUDENTHAL & ELKOWITZ CONSULTING GROUP, INC. Figure 2C - Site Details: Truss Level

NASSAU VETERANS MEMORIAL COLISEUM



FREUDENTHAL & ELKOWITZ CONSULTING GROUP, INC.

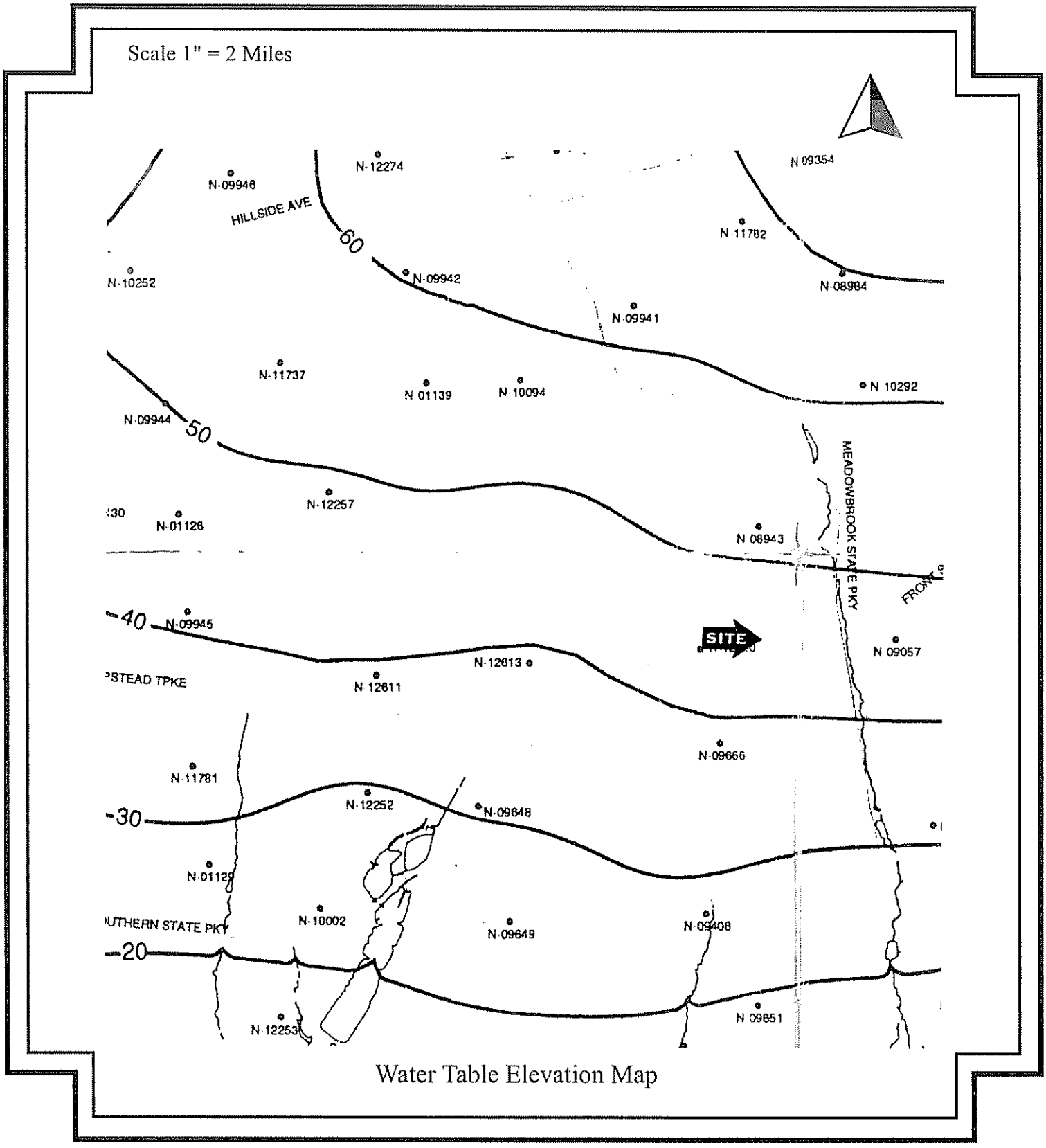
Figure 2D - Site Details: Seating Chart



Name: FREEPORT
Date: 3/8/105
Scale: 1 inch equals 800 feet

Location: 040° 43' 22.2" N 073° 35' 22.9" W
Caption: Figure 3 - Topographic Map

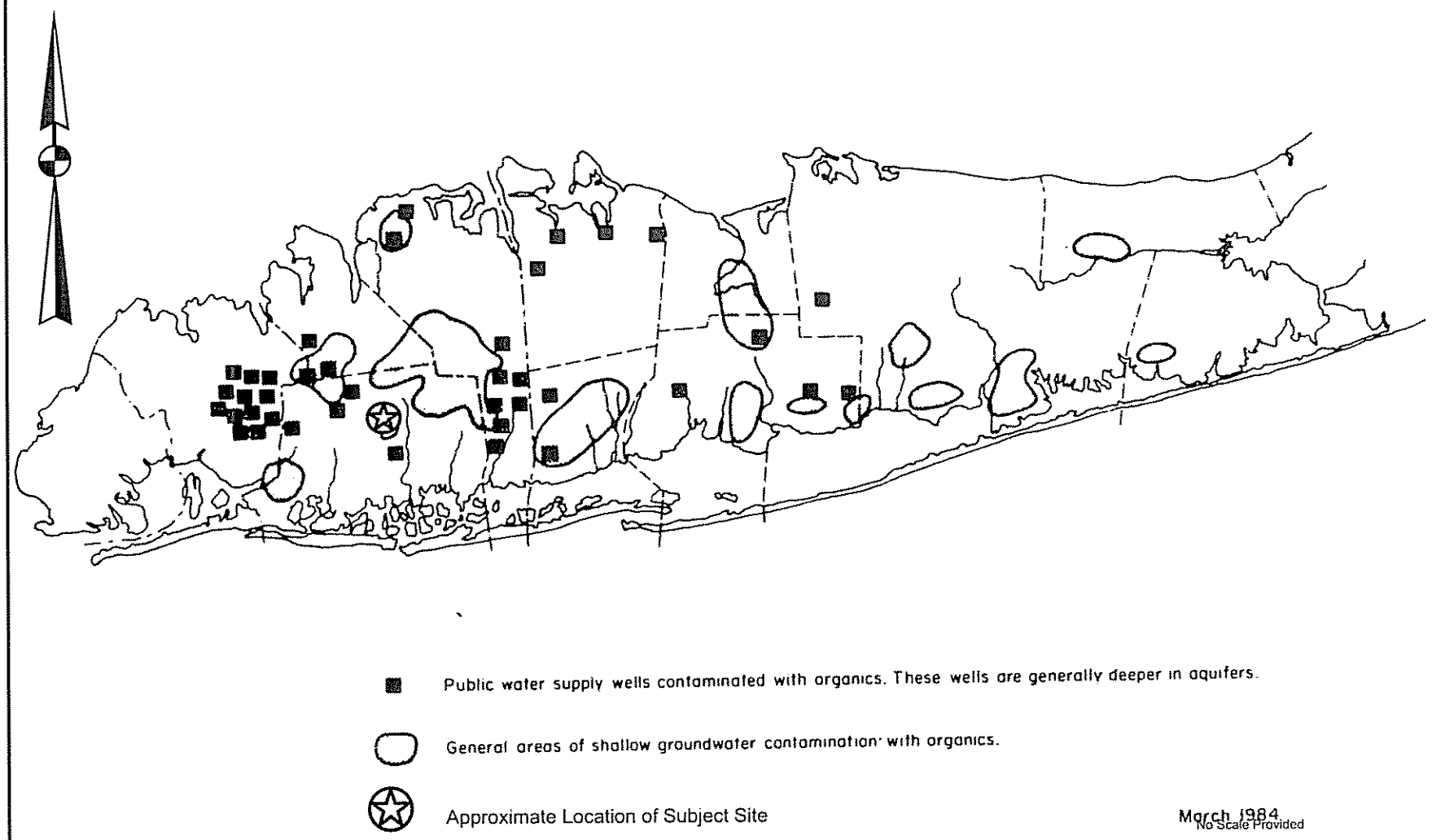
Copyright (C) 1996, Earthvisions. Inc



Water Table Elevation Map

Source: Nassau County Department of Public Works
Water Management Unit
Division of Sanitation & Water Supply, February 1999

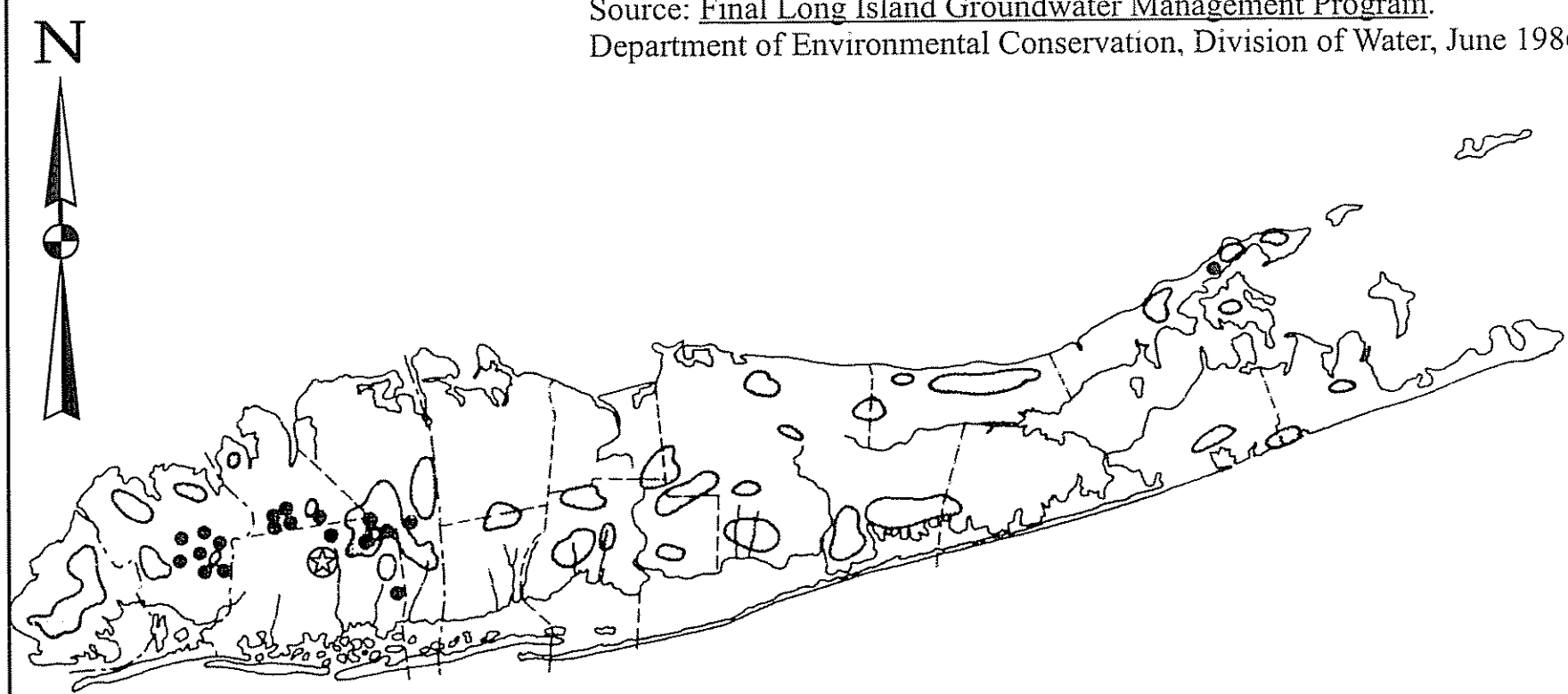
Source: Final Long Island Groundwater Management Program.
Department of Environmental Conservation, Division of Water, June 1986.



FREUDENTHAL & ELKOWITZ CONSULTING GROUP, INC.

Figure 5

Source: Final Long Island Groundwater Management Program.
Department of Environmental Conservation, Division of Water, June 1986.



Public water supply well contaminated with nitrate

General areas of shallow nitrate contamination

Approximate Location of Subject Site

April 1984

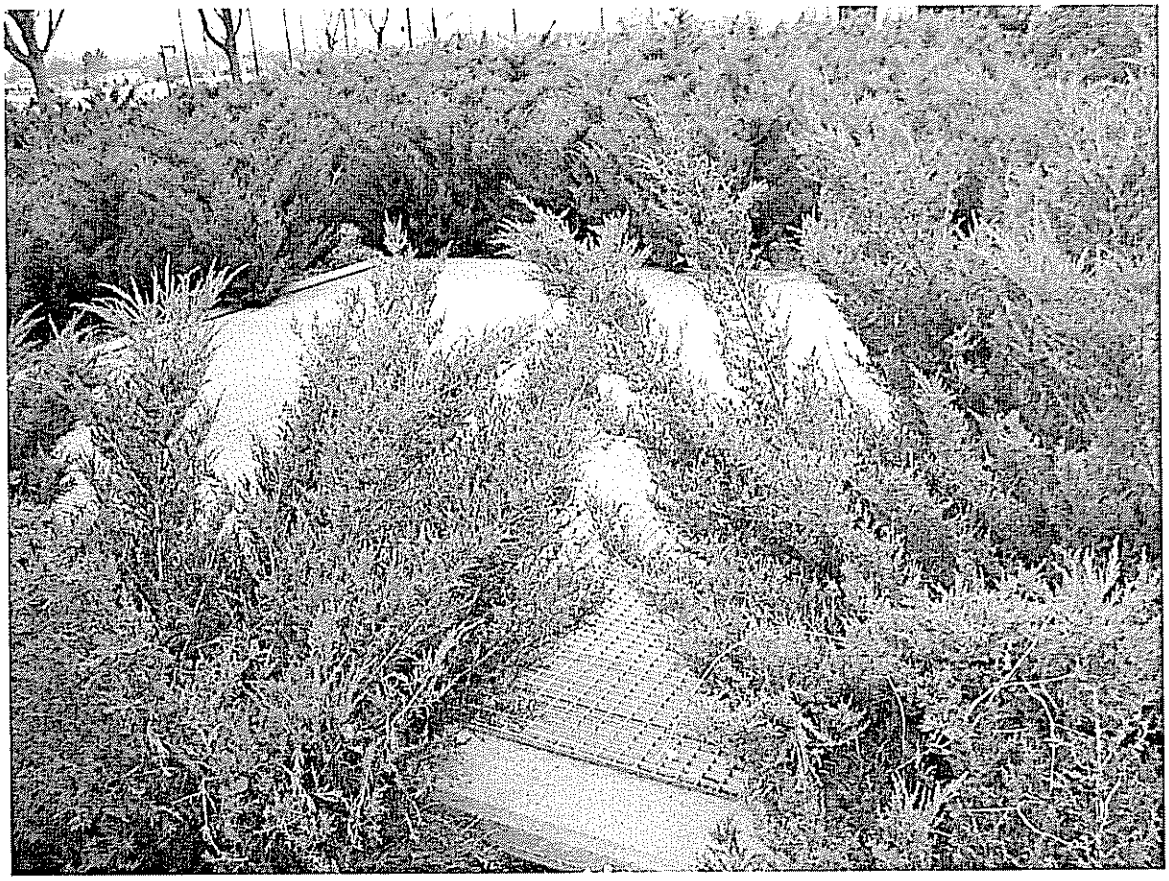
No Scale Provided

FREUDENTHAL & ELKOWITZ CONSULTING GROUP, INC.

Figure 6

APPENDIX B

Photograph No. 1: Nassau Veterans Memorial Coliseum.

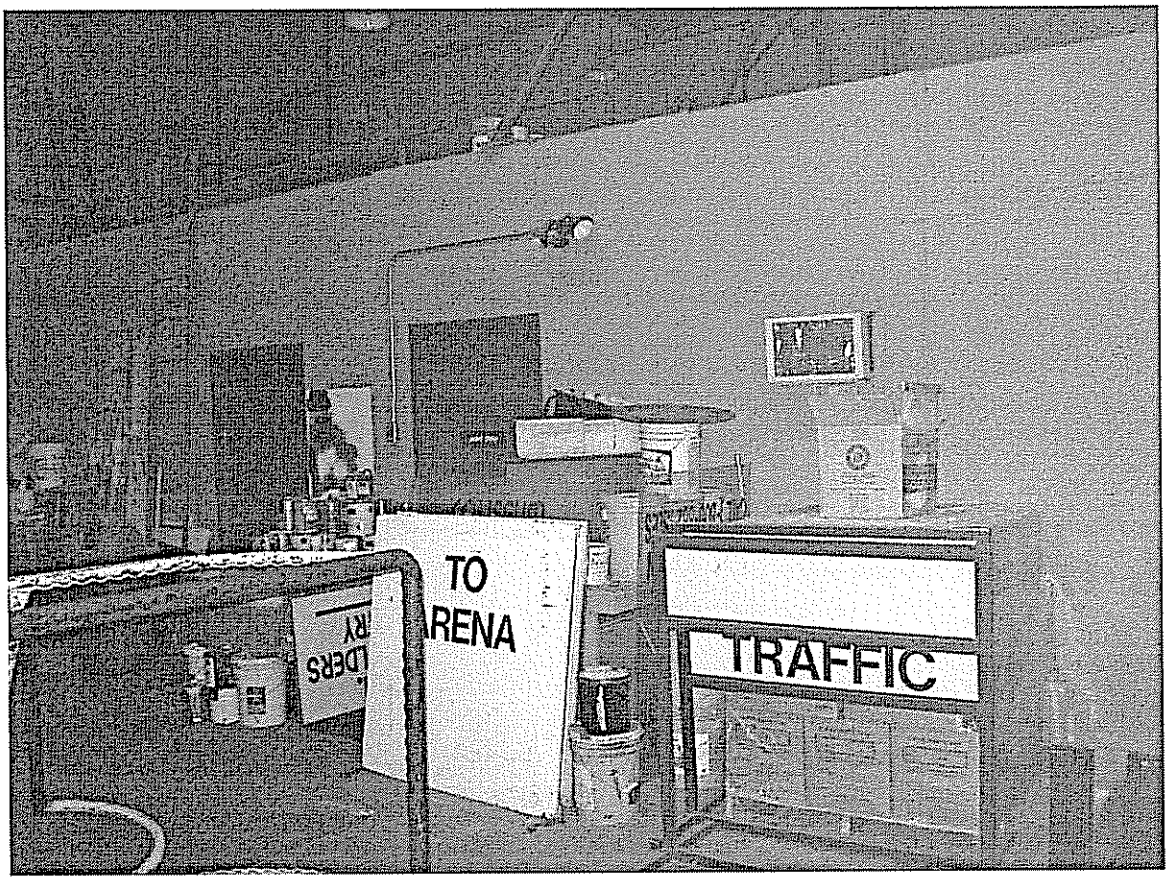


Photograph No. 2: Concealed air-intake system within a concrete-bounded planter area.

<u>Photograph No. 3:</u> Representative parking lot stormwater grate.

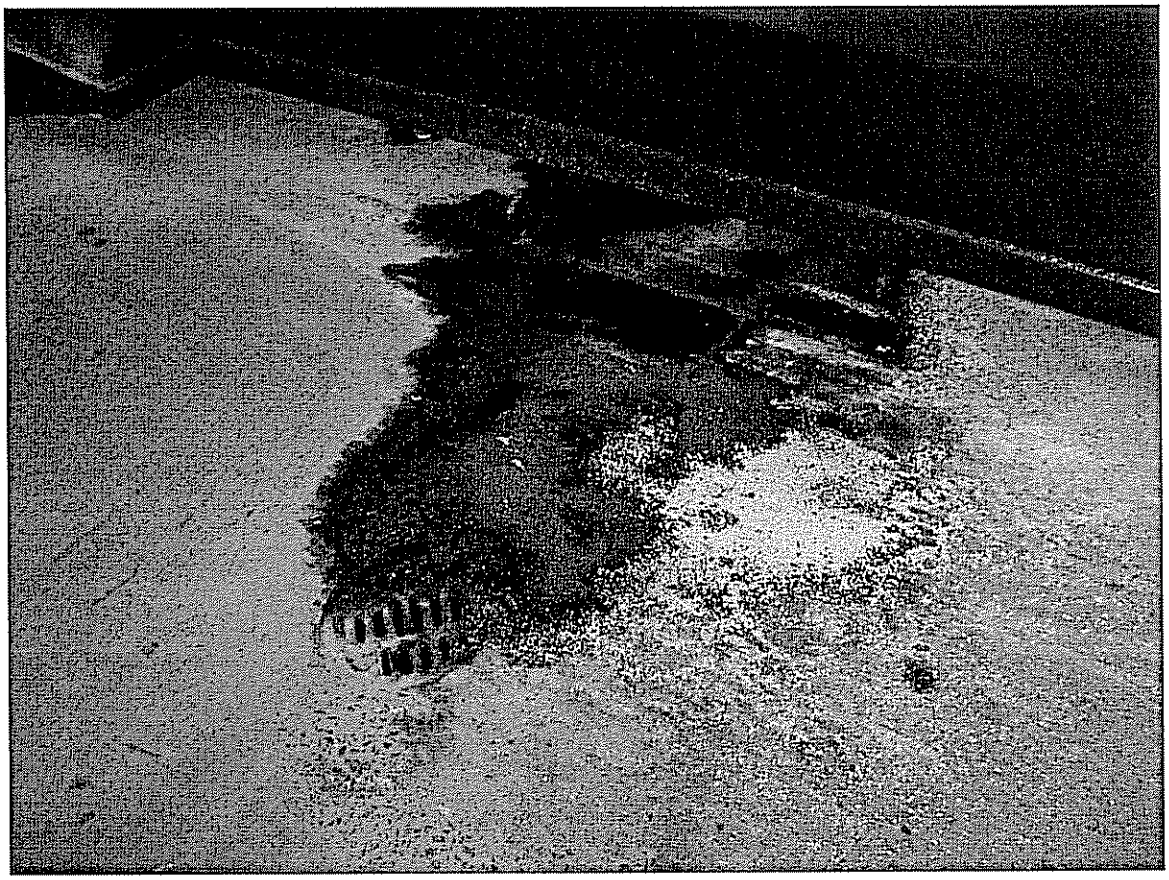
<u>Photograph No. 4:</u> Concrete-paved loading bay ramp.

Photograph No. 5: Subgrade truck loading bay.

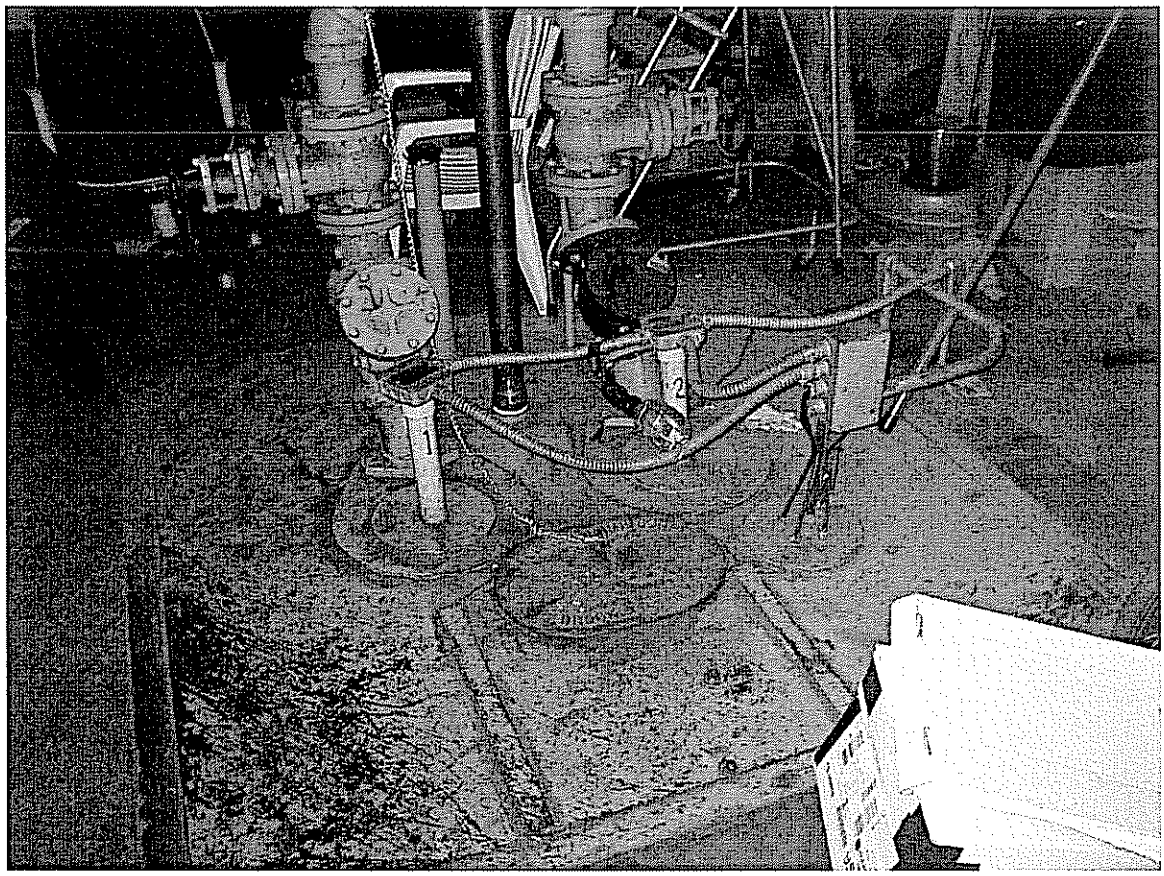


Photograph No. 6: Paint and plumbing shop within the loading bay.

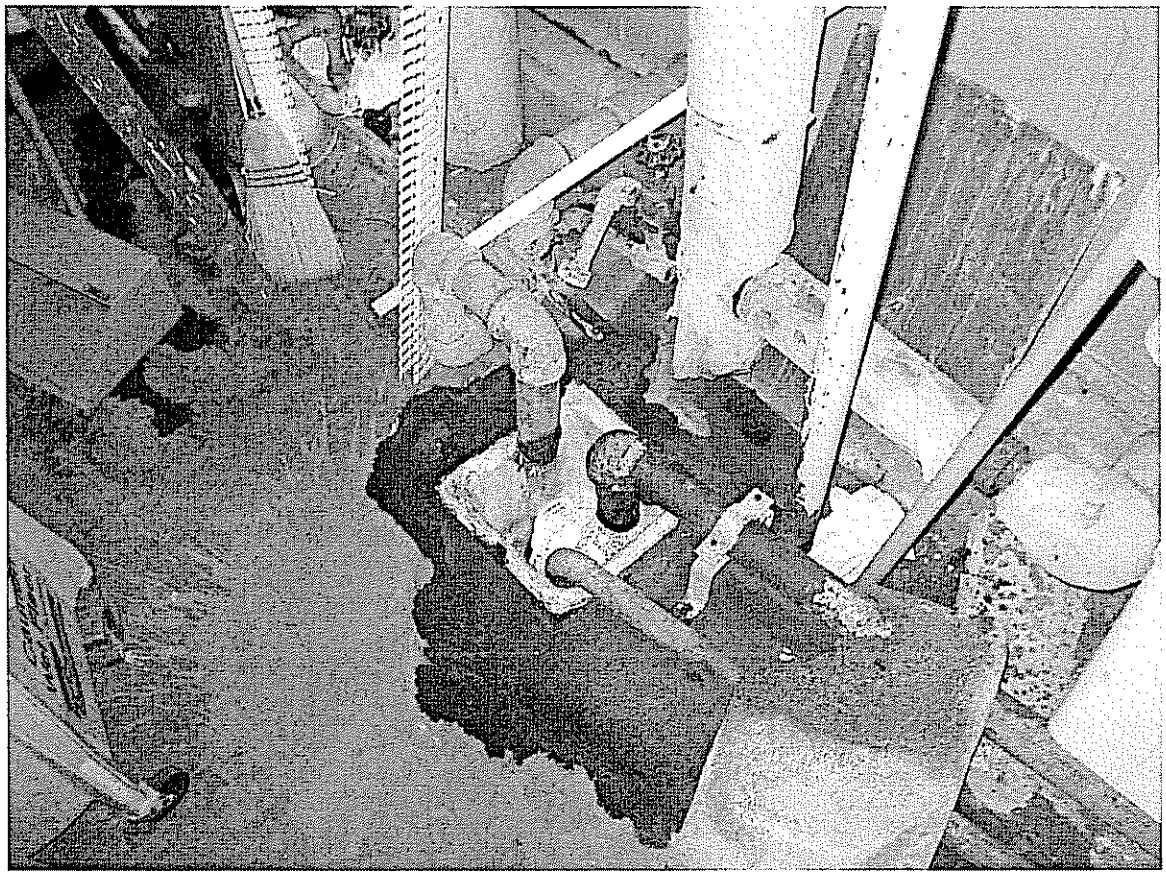
Photograph No. 7: Hard-piped loading bay trench drain.



Photograph No. 8: Visually impacted loading bay drain.

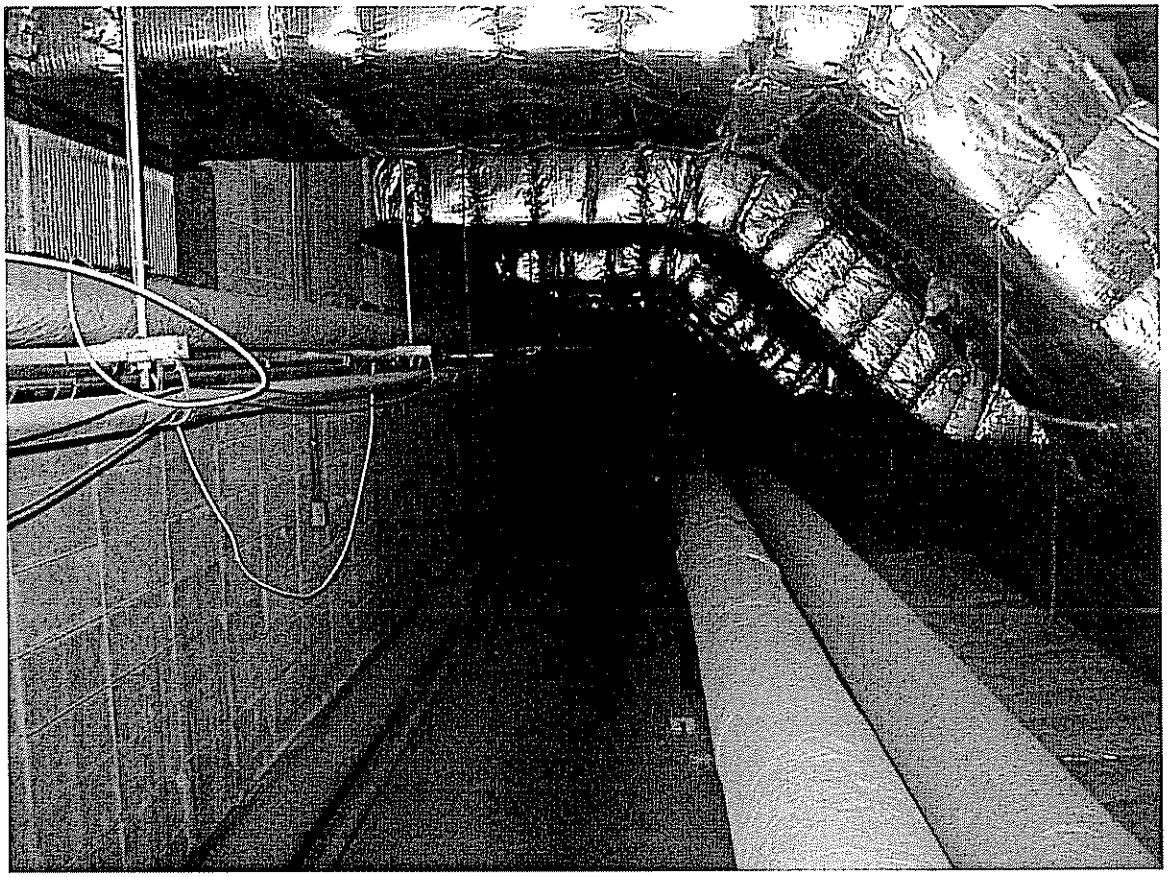


Photograph No. 9: Representative sewer-ejector pit.

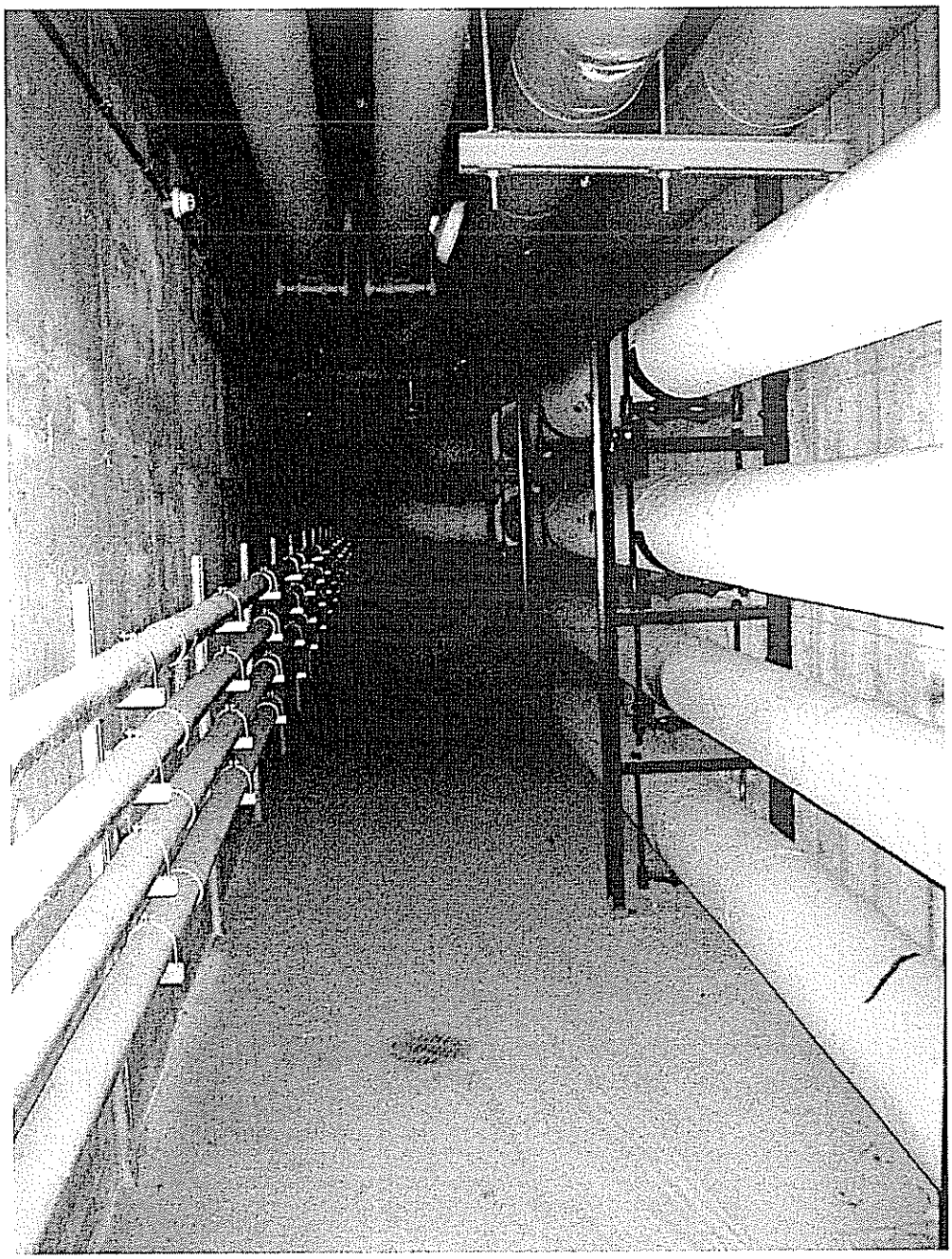


Photograph No. 10: Hard-piped slop sink discharge point.

Photograph No. 11: **Three 55-gallon waste oil drums, three 35-gallon oil drums and several five-gallon containers containing various oils and solvents.**



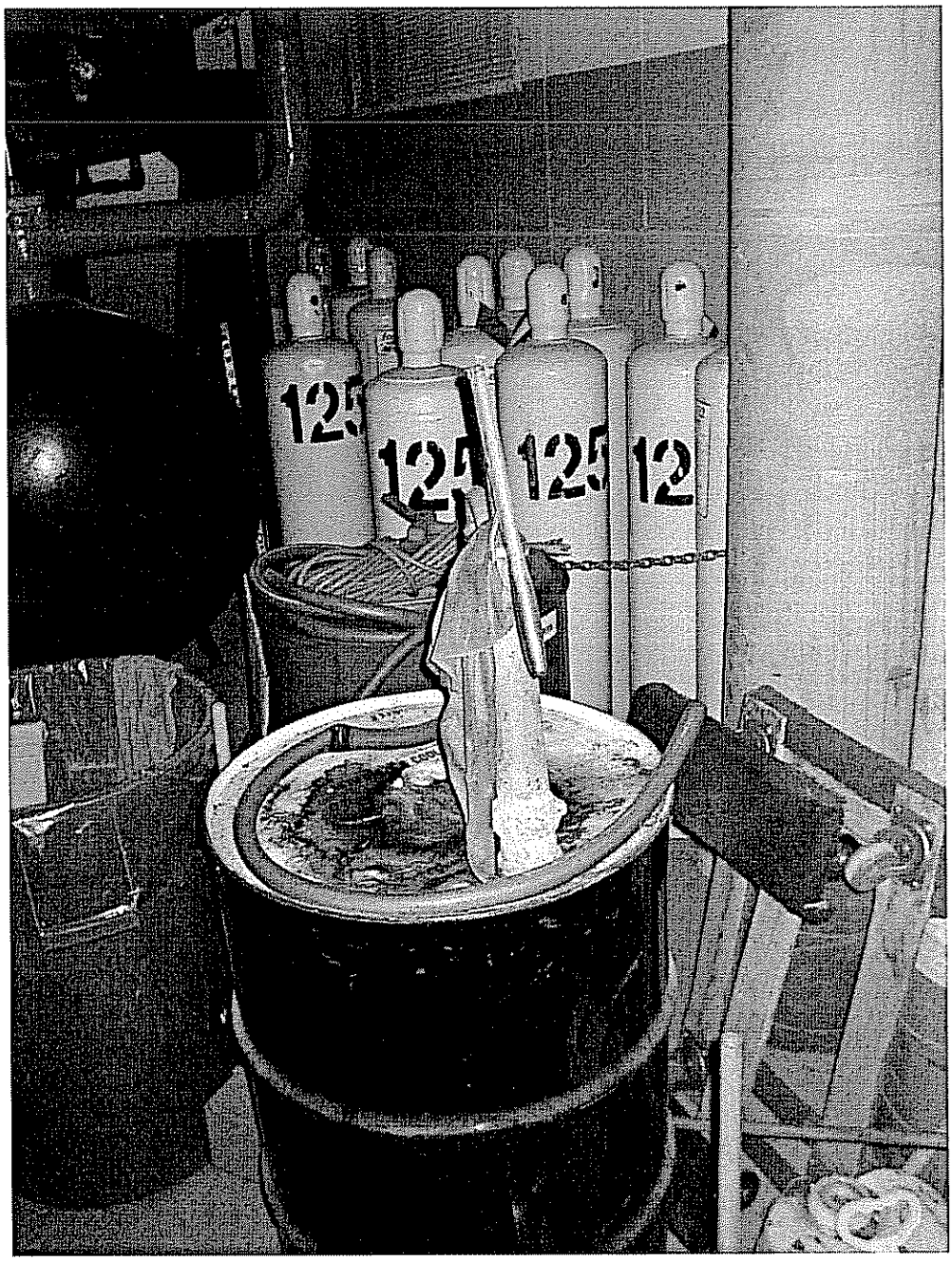
Photograph No. 12: **Subgrade utility corridor.**



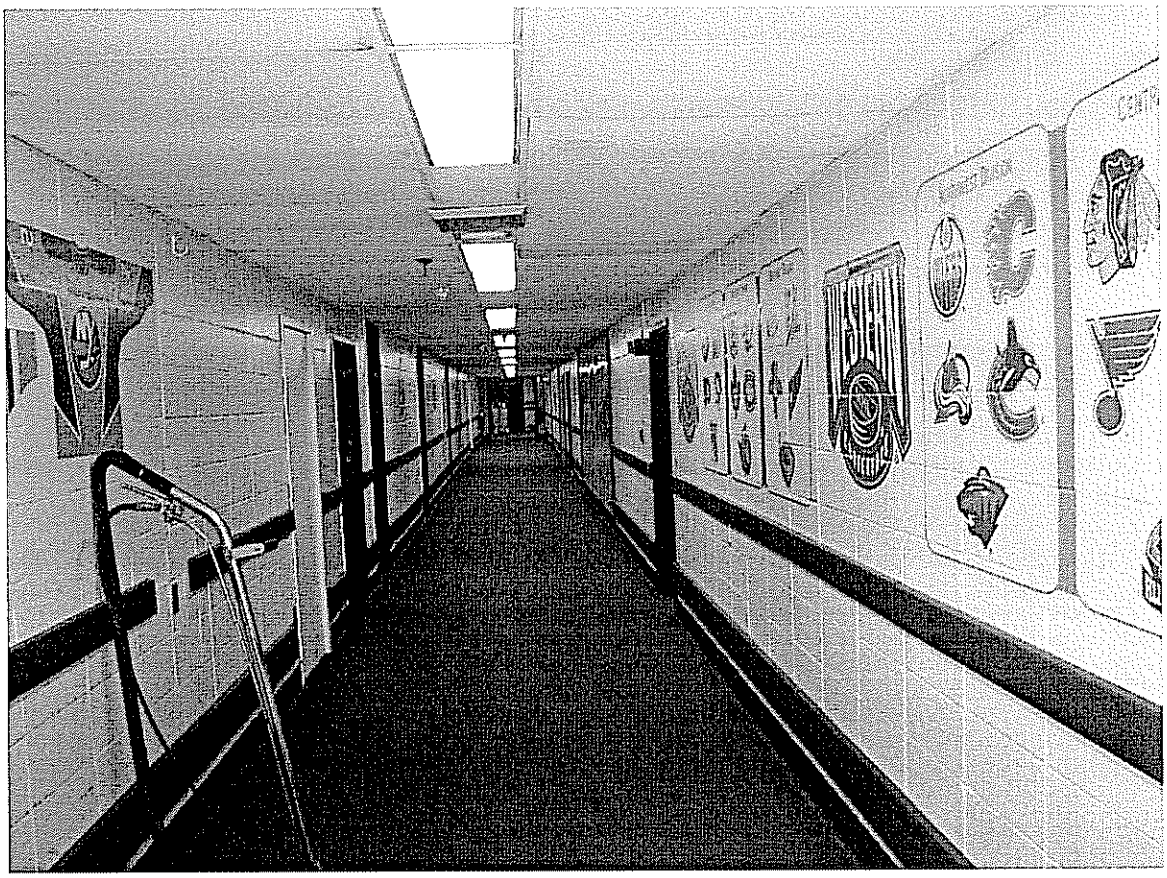
<u>Photograph No. 13:</u> Subgrade corridor associated with supply and return lines from the Trigen CUP.

Photograph No. 14: Stored 55-gallon drums of Evercool glycol.

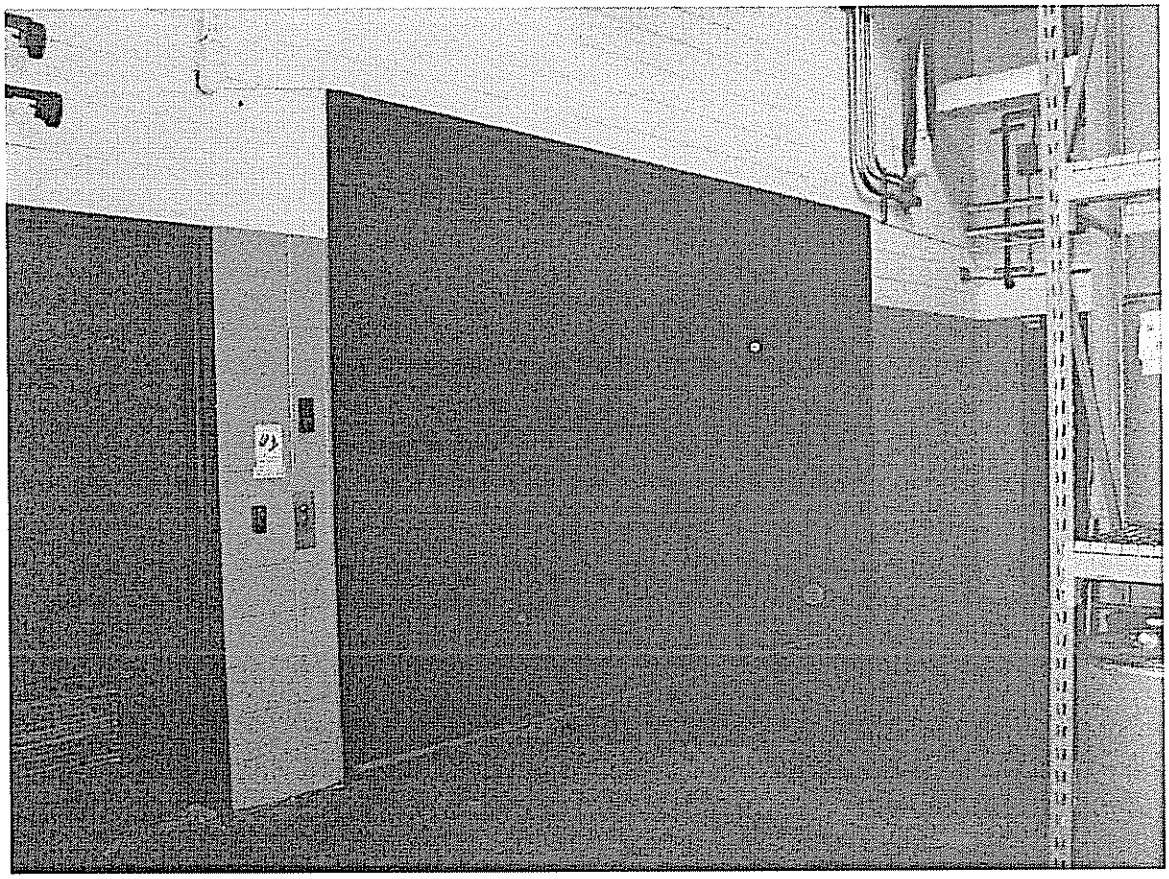
Photograph No. 15: 6,000-pound freon AST and two 55-gallon drums. A floor drain is partially-visible at the bottom of the photograph.



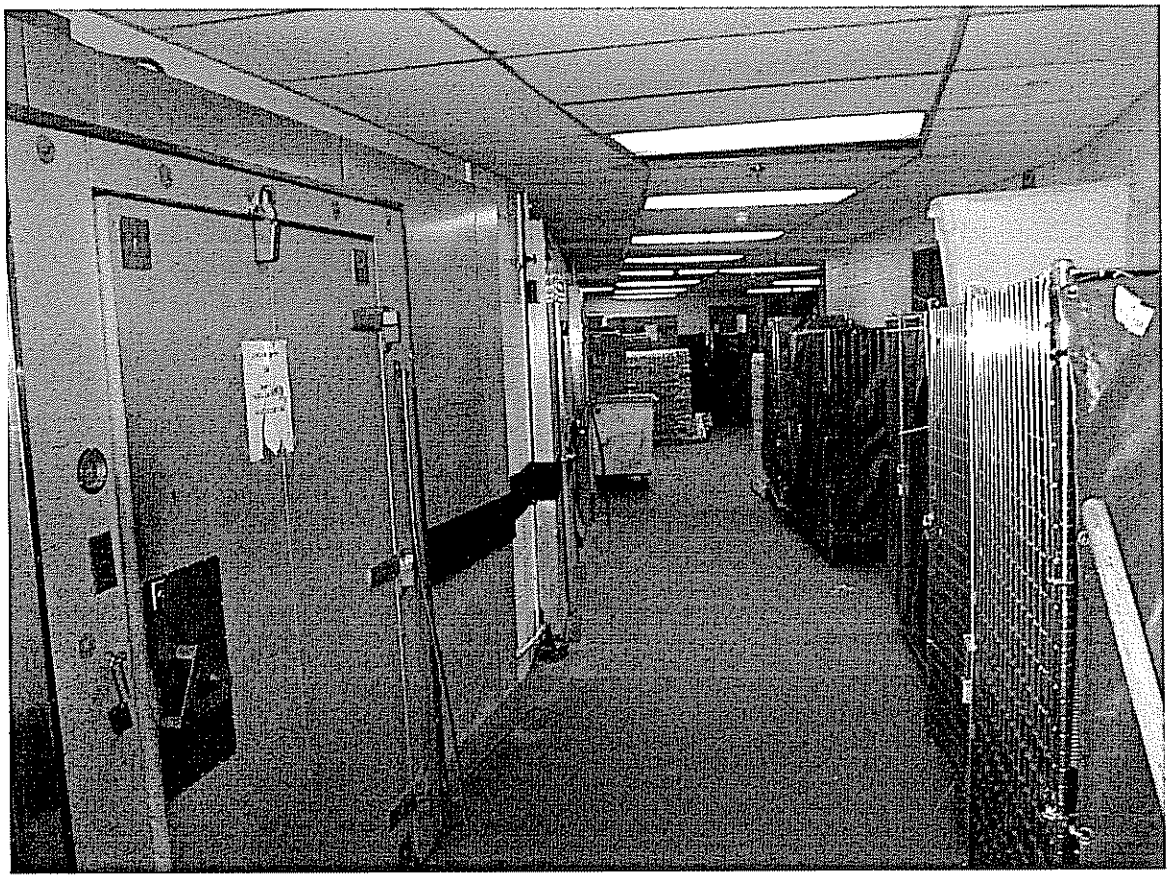
<u>Photograph No. 16:</u> Stored containers of R-22 (refrigerant) and a 55-gallon drum. The 6,000-pound freon AST is visible at the left side of the photograph.



Photograph No. 17: Locker room corridor.

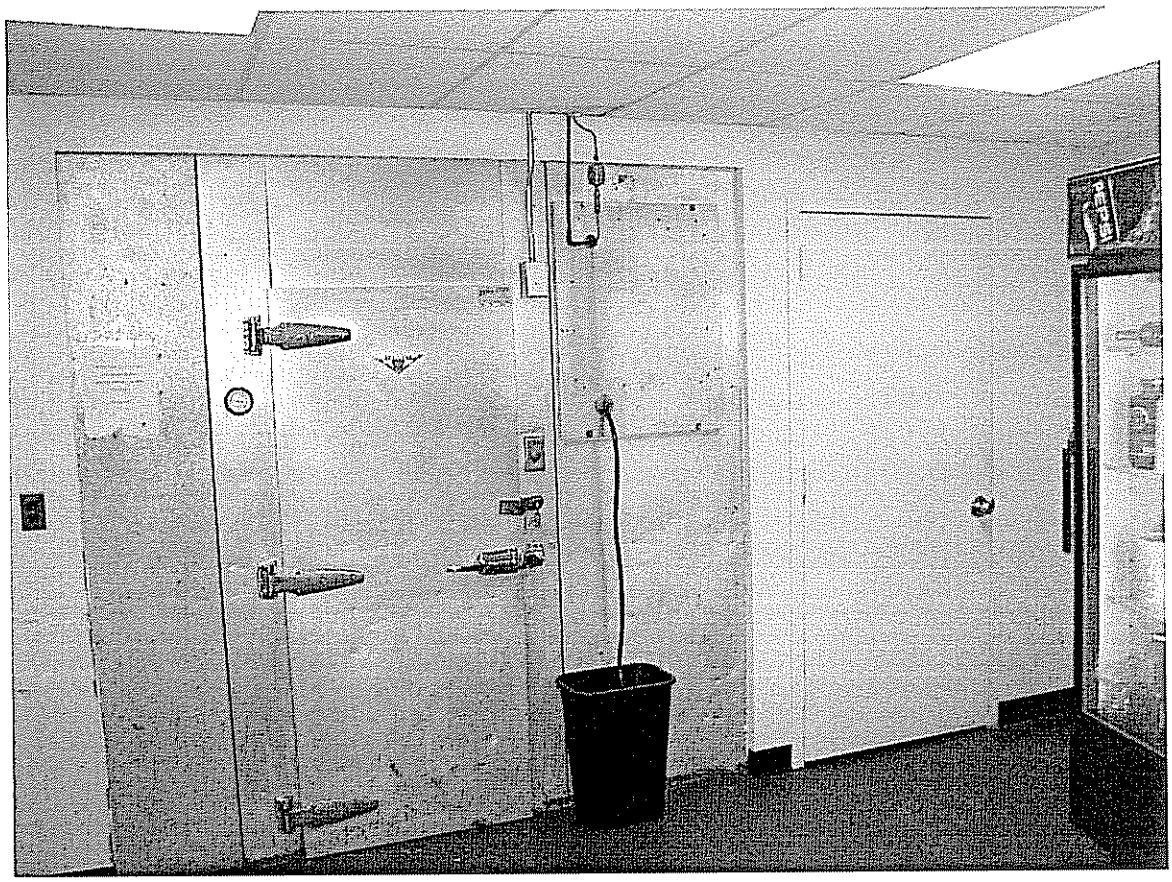


Photograph No. 18: Freight elevator.

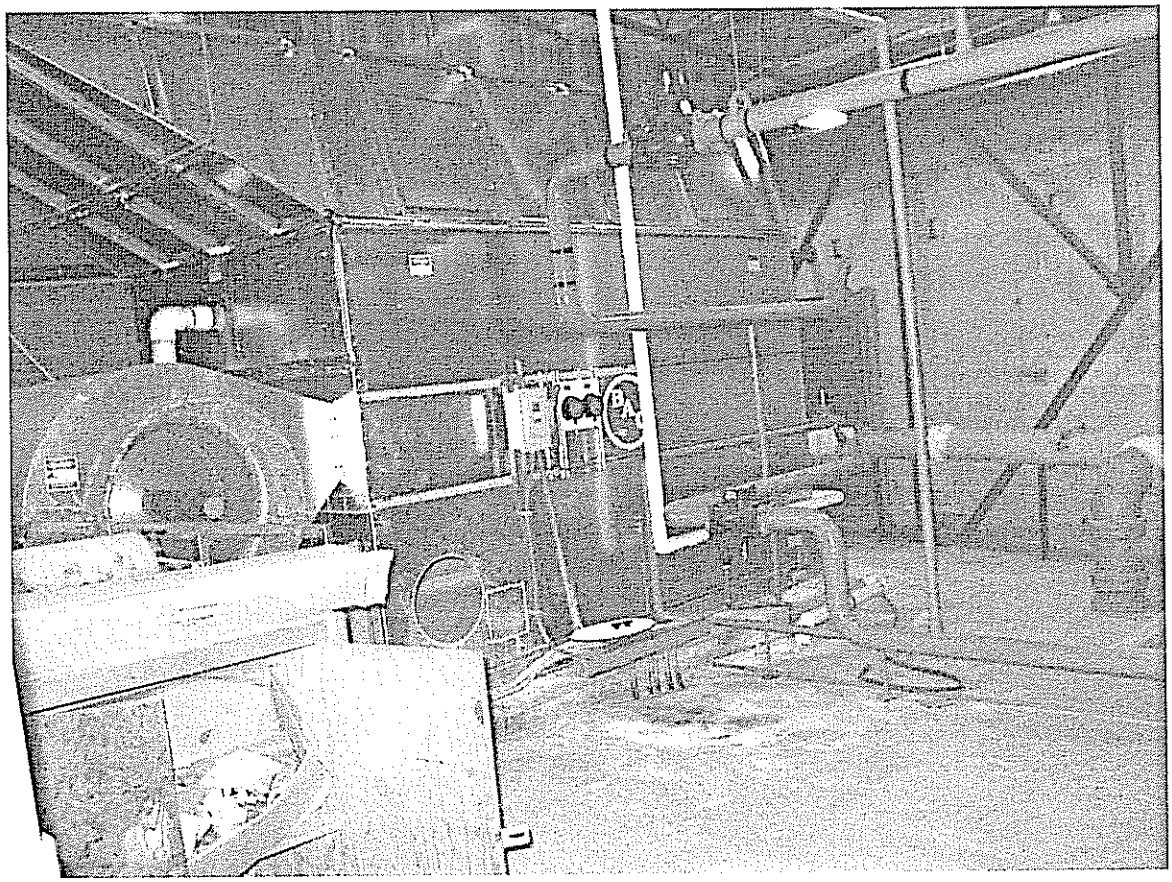


Photograph No. 19: Aramark food storage area.

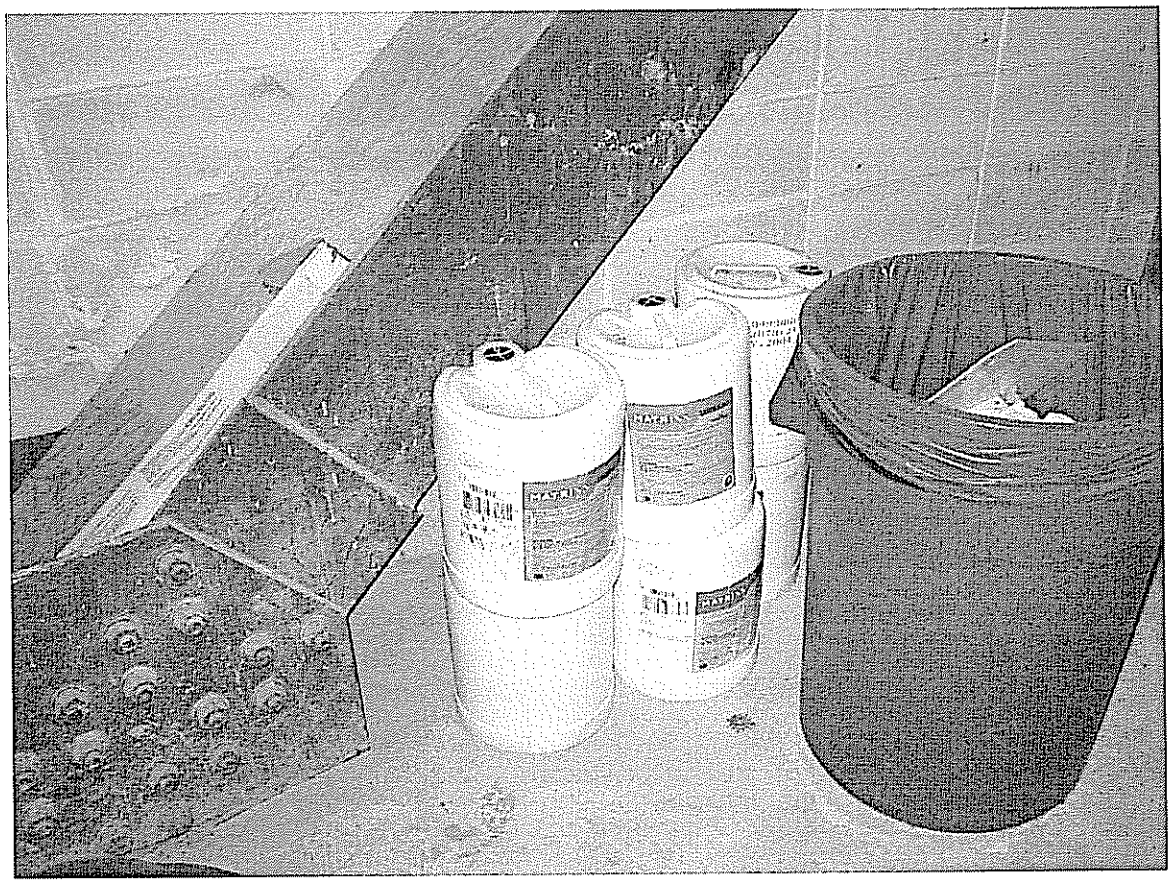
Photograph No. 20: Kitchen area.



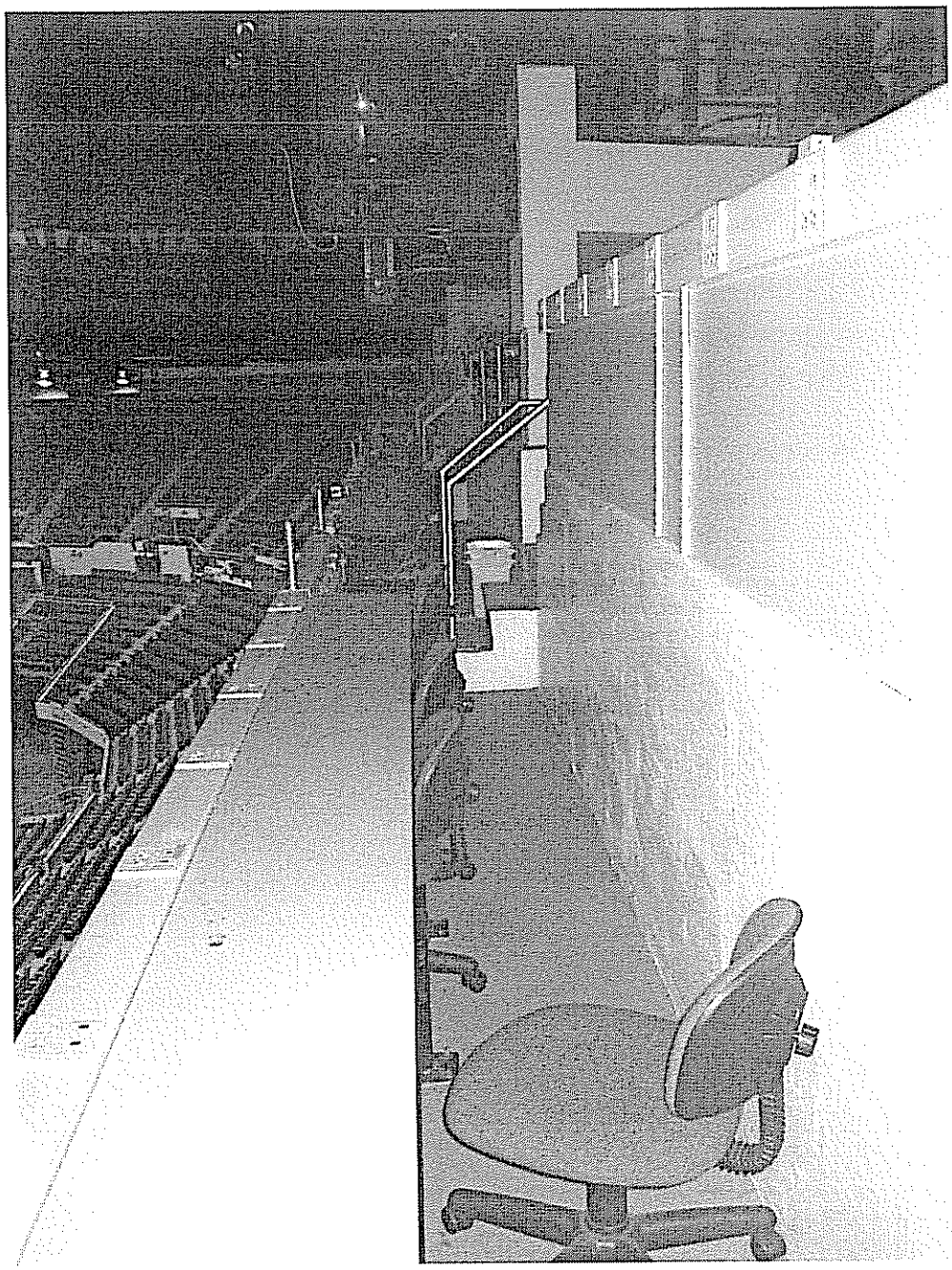
Photograph No. 21: **A refrigerating unit associated with the 300-level food service station.**



Photograph No. 22: **Chiller unit.**

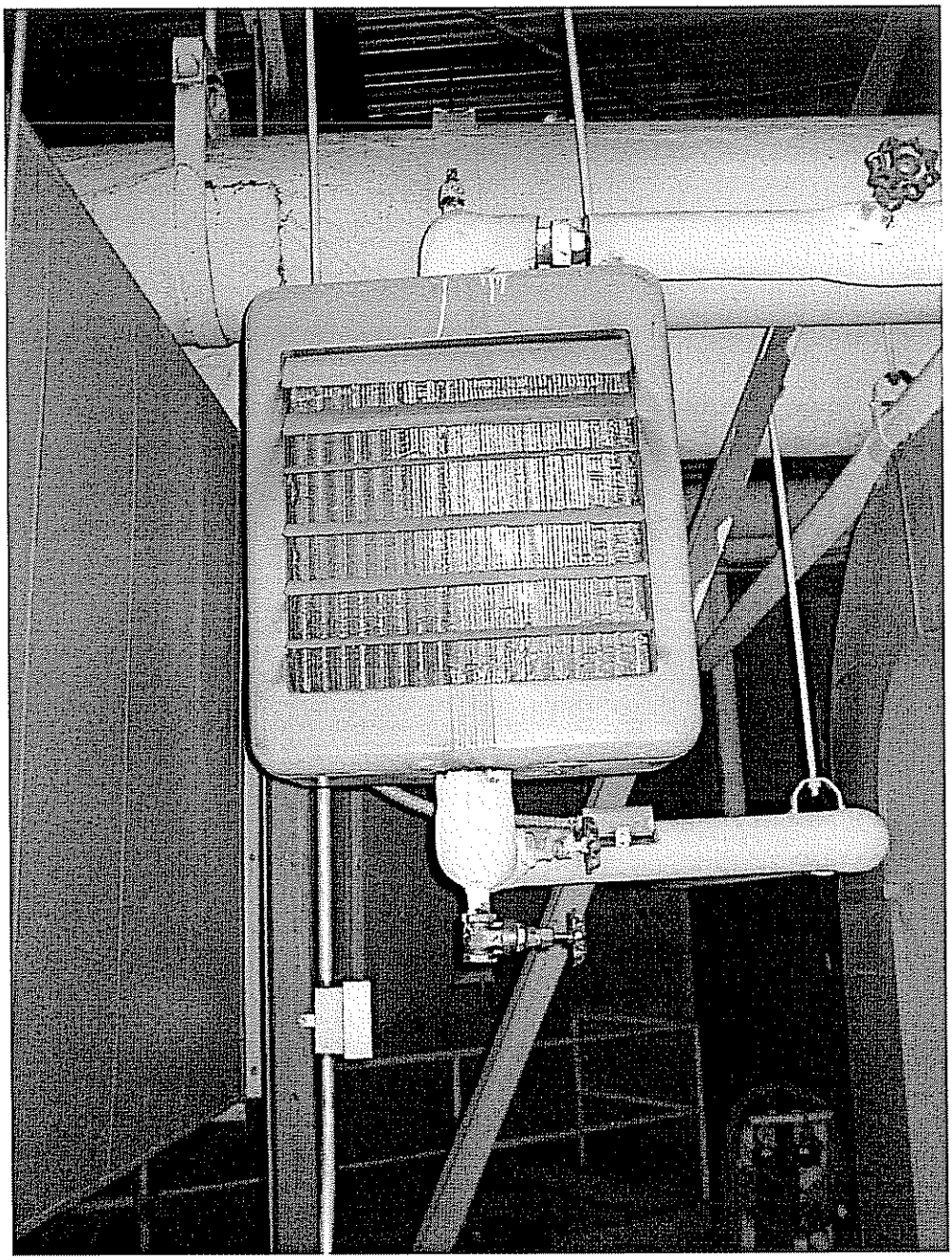


<u>Photograph No. 23:</u> Stored containers of water treatment chemicals.

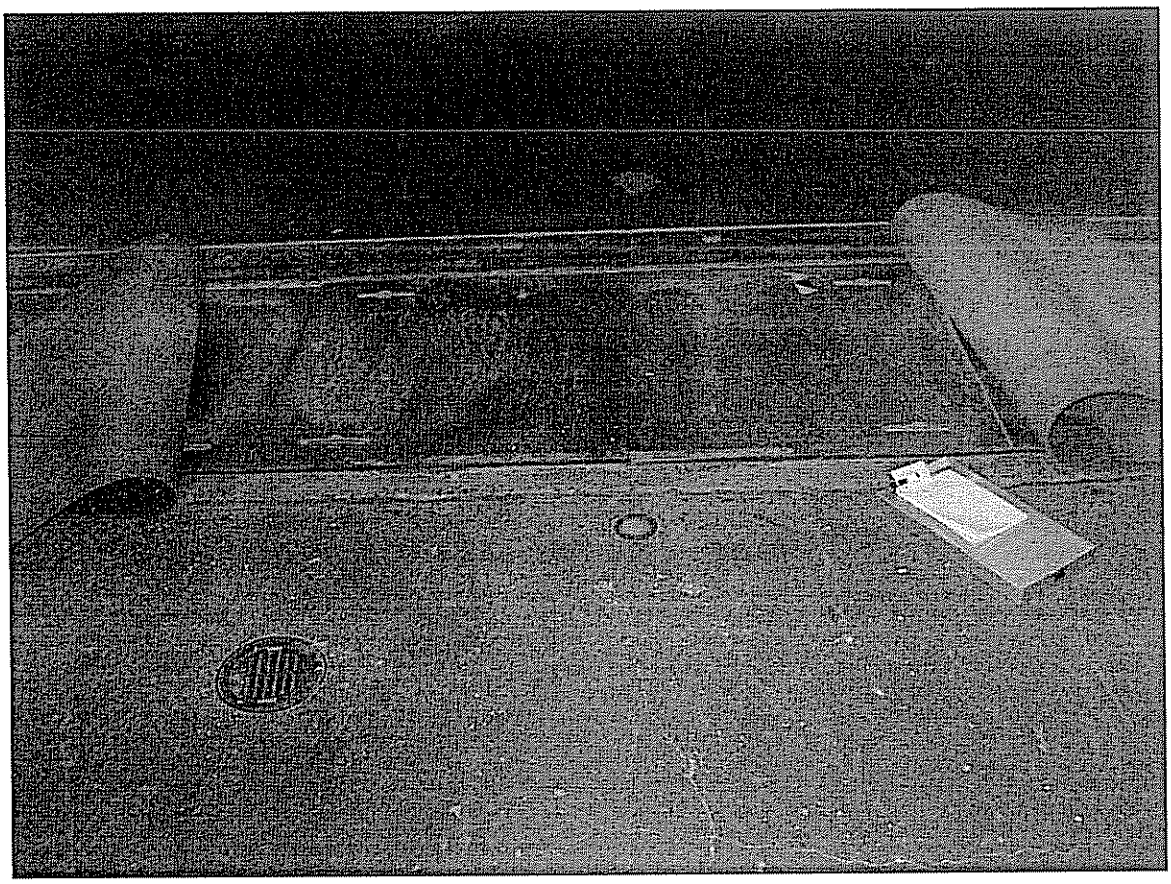


Photograph No. 24: **Press box seating.**

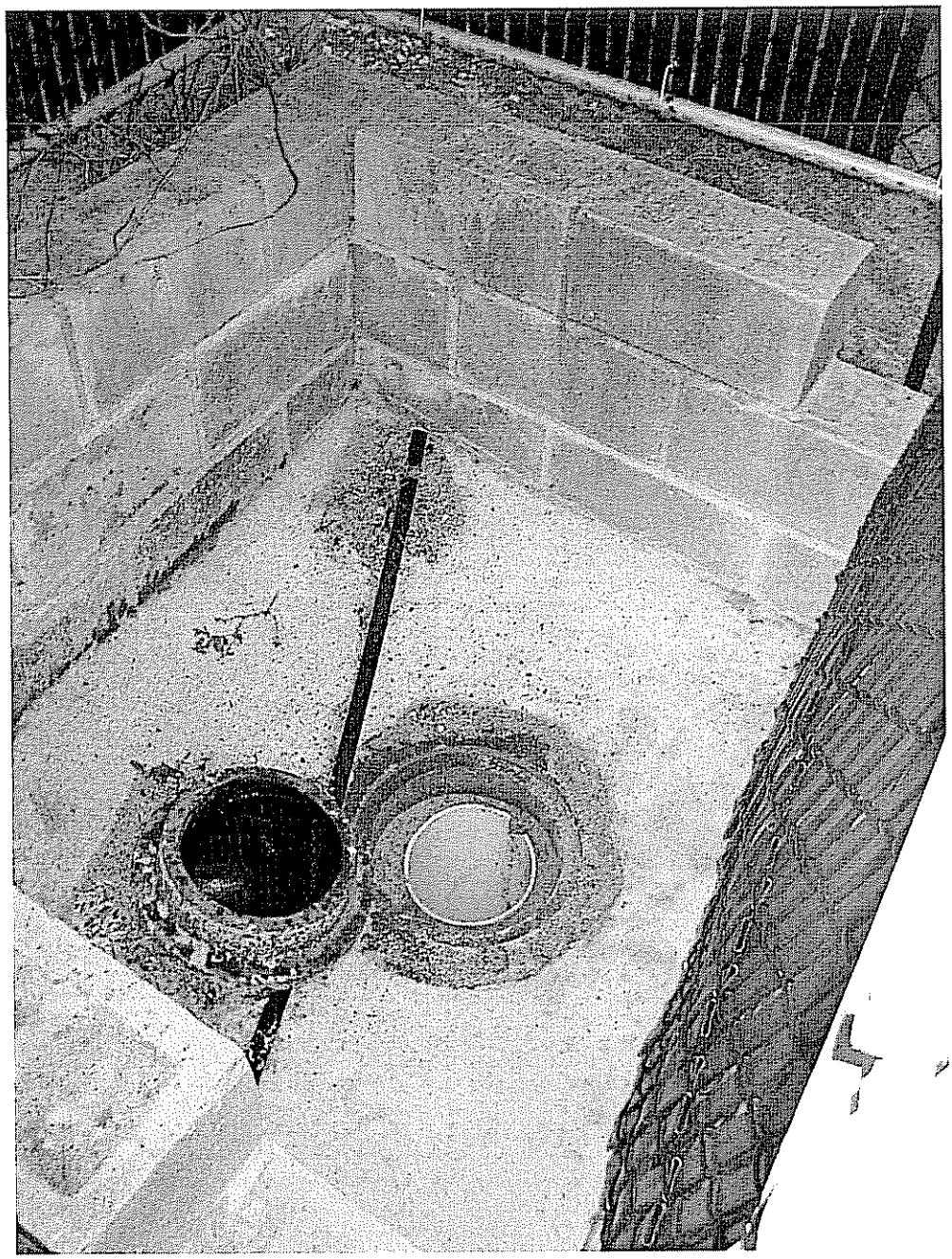
<u>Photograph No. 25:</u> Representative dry-type transformer unit.



<u>Photograph No. 26:</u> Ceiling-mounted forced hot-air unit.

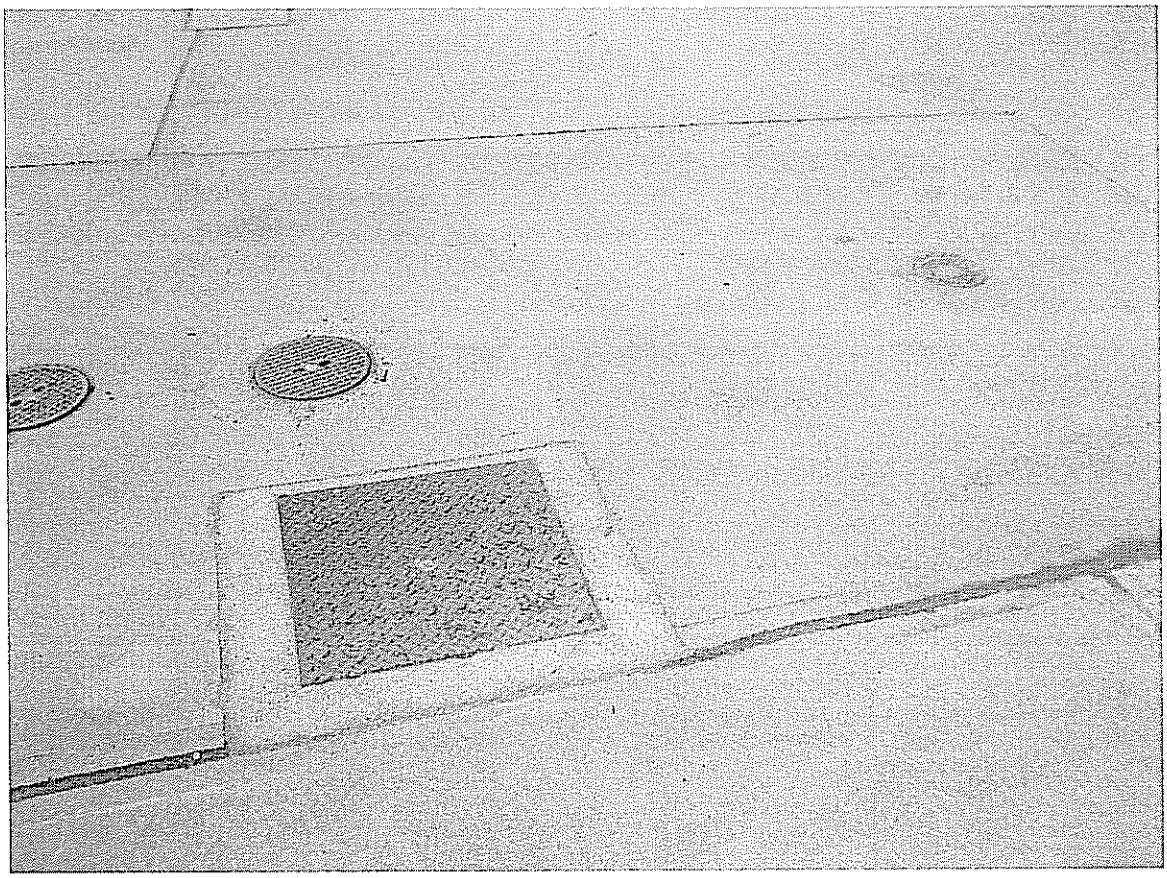


<u>Photograph No. 27:</u> Metal covers concealing the arena floor hard-piped trench drain.

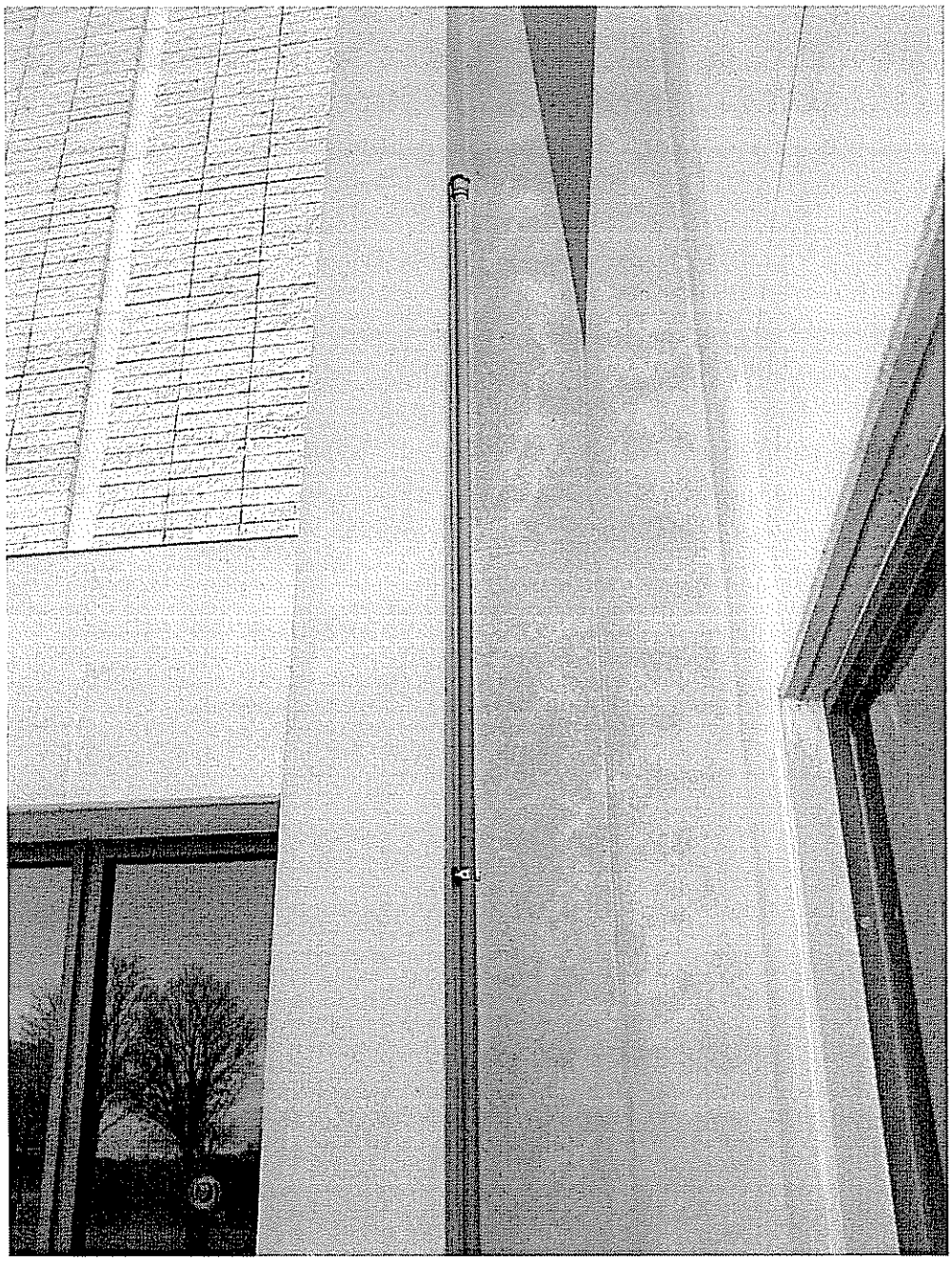


<u>Photograph No. 28:</u> Suspect sanitary cleanout.

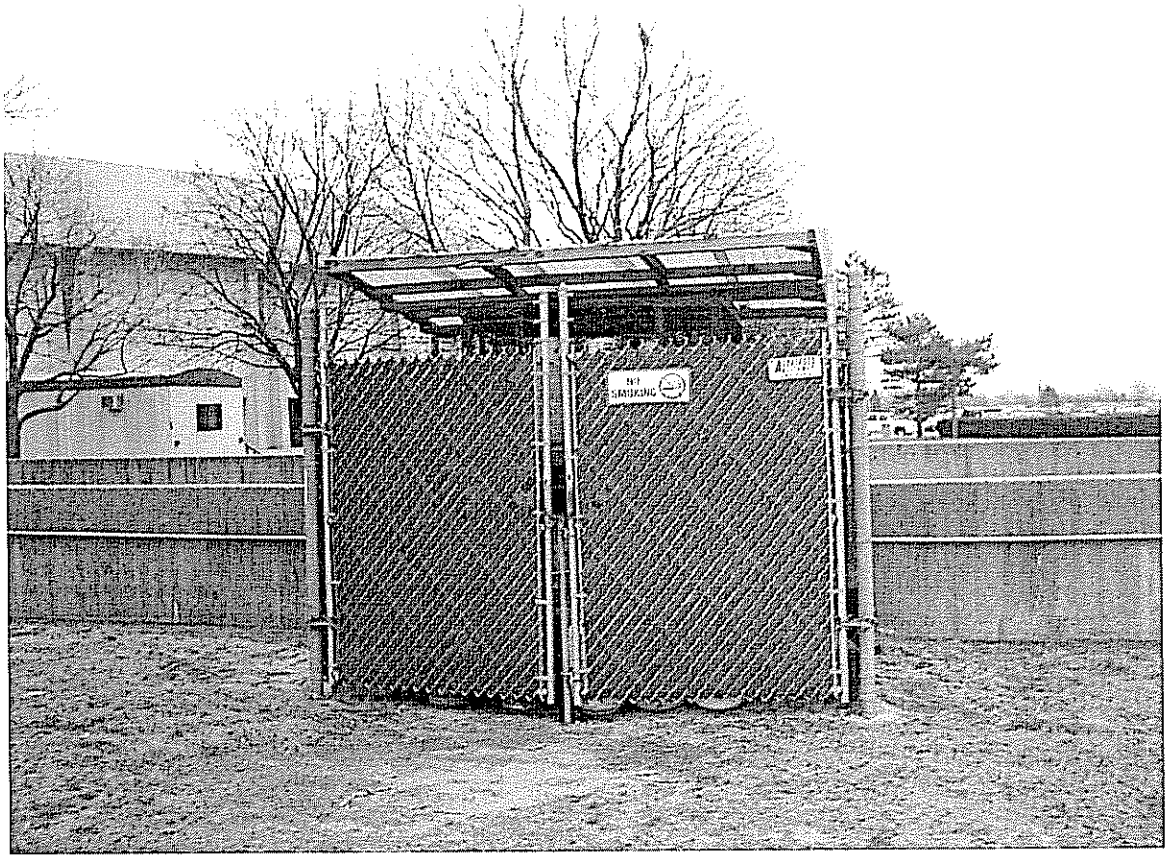
<u>Photograph No. 29:</u> Solid manhole cover and scarring associated with asphalt-repairs.



<u>Photograph No. 30:</u> Solid covers associated with a reportedly 1,000-gallon diesel UST.

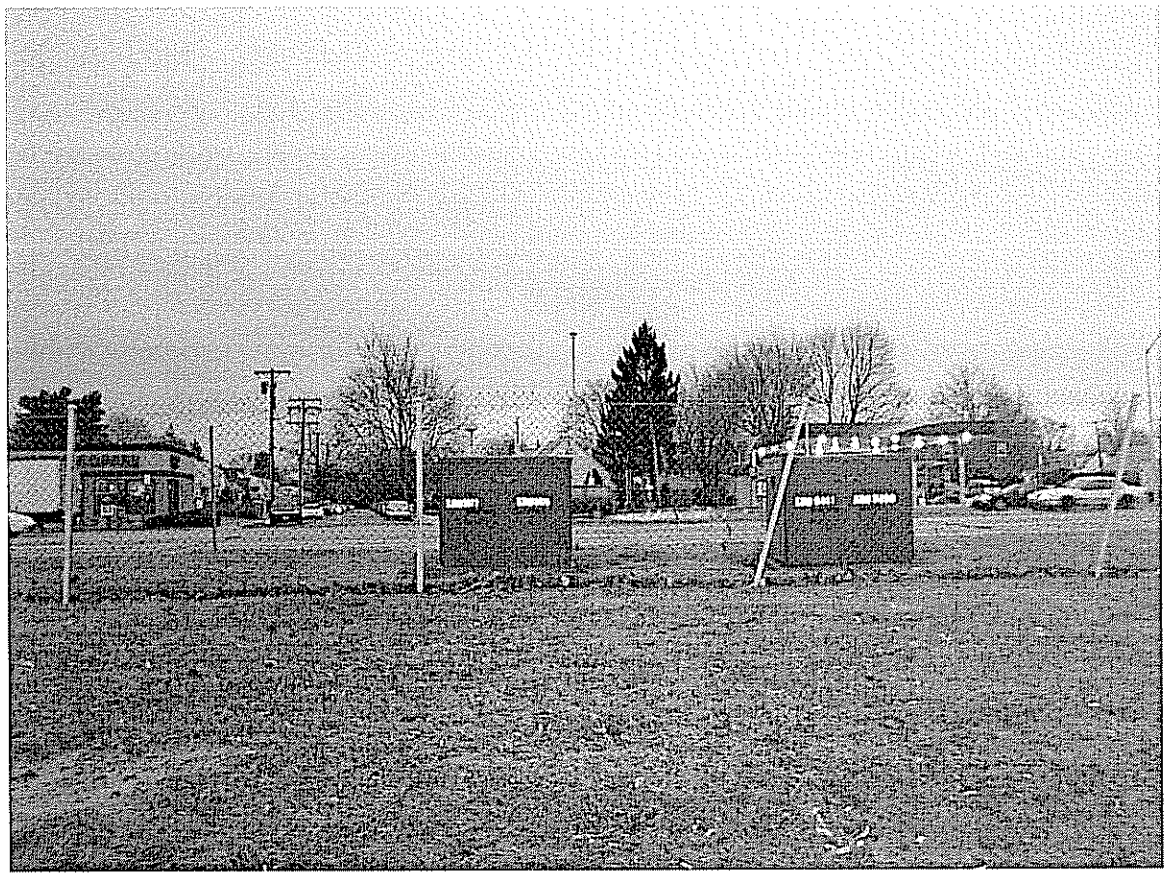


Photograph No. 31: Vent pipe associated with a reportedly 1,000-gallon diesel UST.



Photograph No. 32: Locked compressed propane gas tank storage area.

Photograph No. 33: Former location of Mitchell Field sewage treatment beds.



Photograph No 34: Two concrete pad-mounted transformers.

Photograph No. 35: RPZ unit.

Photograph No. 36: Easterly adjoining Marriott Hotel.

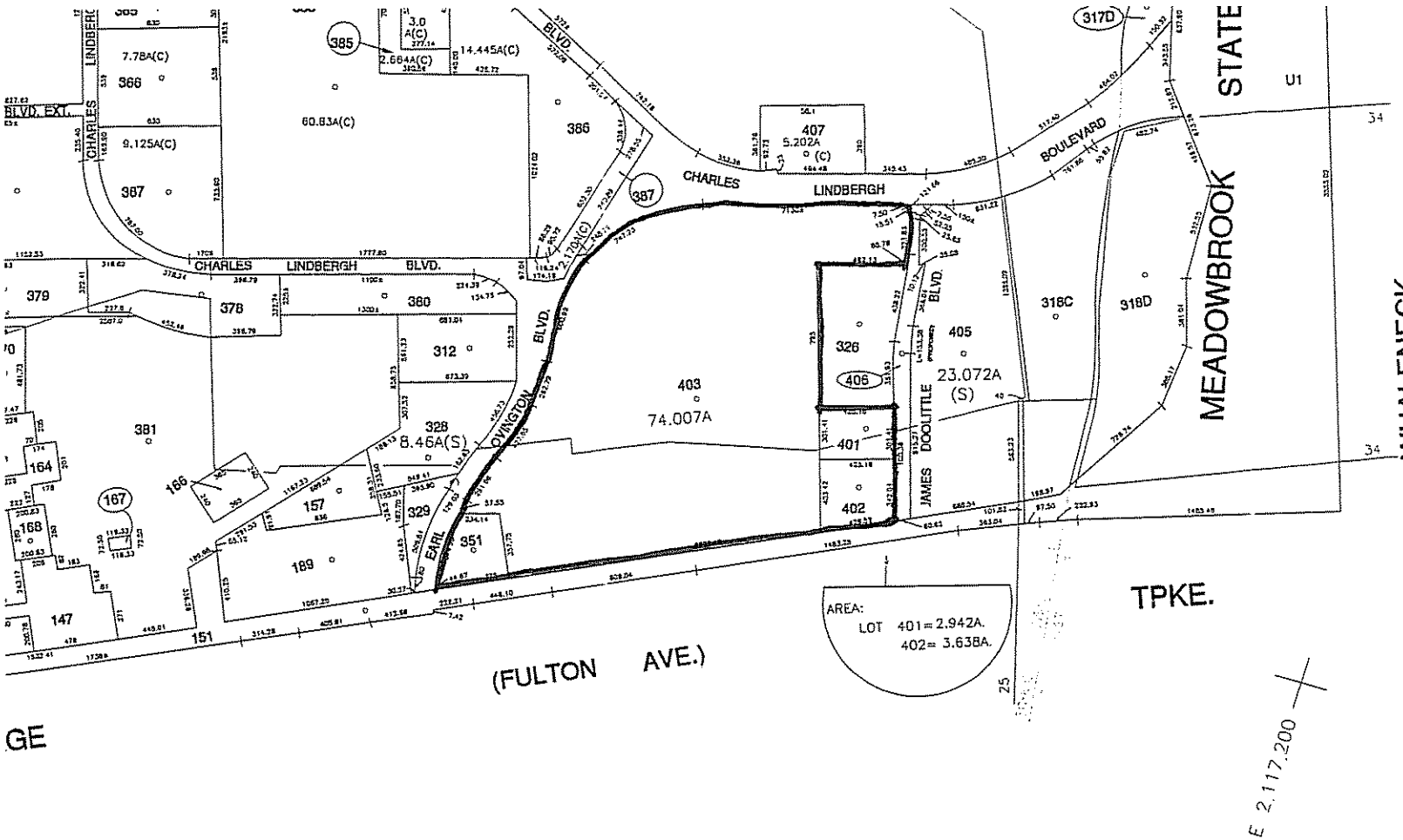
Photograph No. 37: EAB Plaza.

Photograph No. 38: Northerly adjoining Trigen CUP.

Photograph No. 39: View east along Hempstead Turnpike.

<u>Photograph No. 40:</u> View facing west along Hempstead Turnpike.

APPENDIX C



DIST		DIST
	FIRE PROTECTION	
3		
7	SANITARY	
9		
25	REFUSE & GARBAGE	
78	Town of Hempstead	L
	REFUSE DISPOSAL	
47	Town of Hempstead	X
	SEWAGE COLLECTION	
35	Sewage Collection District #3-CP-W	52
	Sewage Collection District #3-EM	24
62	Sewage Collection District #3-RIA	F
77		

SPECIAL DISTRICTS

	DIST
PUBLIC PARKING	
Uniondale	36
SEWER	
Nassau County Sewage Disposal District #3	30
PARK	
Town of Hempstead	V
IMPROVEMENT	
SIDEWALK	

	DIST
DRAINAGE	
FIRE HYDRANT RENTAL	
GARBAGE	
ESCALATOR	
WATER POLLUTION CONTROL	
Town, County, College, Police HQ	1
Town Building Dept, Zoning & Appeals, Unincorporated Area	2

MUNICIPALITIES

TOWN OF:	
HEMPSTEAD	
NORTH HEMPSTEAD	X
OYSTER BAY	
CITY OF:	
GLEN COVE	
LONG BEACH	
VILLAGE OF:	

SCHOOL DISTRICT	
East Meadow	3
Uniondale	2

CODE	SPECIAL								DISTRICT			WITHIN		
030	1	2	34	3	39	47	62	9	L	V	X			
050	1	2	25	3	35	36	39	47	52	62	L	V	X	

CODE	SPECIAL	DISTRICT	WITHIN

Nassau County
Department of Assessment
Charles O'Shea, Chairman
Land & Tax Map

Map Last Revised: March 27 2003

SEC. 44

BLK. F

SHEET 1 OF 1

SECTION 44 | BLOCK F | LOT 326 | ADDRESS W/S JAMES DOOLITTLE BLVD | CARD No.

	1984	REMARKS 1985	1986	1987
Bus Ex				
020	1170,600	1271600	1372600	1473600
020X	1010,200	909150	808150	709150

ASSESSMENT SUMMARY

83	LAND	97080
	BLDGS.	275000
	TOTAL	372,100
84	LAND	97080
	BLDGS.	2,019,402
	TOTAL	2116,500
19 84	LAND	160368
	BLDGS.	2020373
	TOTAL	2180750
19	LAND	
	BLDGS.	
	TOTAL	
19	LAND	
	BLDGS.	
	TOTAL	
19	LAND	
	BLDGS.	
	TOTAL	
19	LAND	
	BLDGS.	
	TOTAL	
19	LAND	
	BLDGS.	
	TOTAL	
19	LAND	
	BLDGS.	
	TOTAL	

020 -4
020B-4
020T-4

597,910 2,340,500 1,406,750
825,950 907,900
85203-1337
1-2-3-47-77-L-X-39-E-36-V-35
1-2-3-47-77-L-X-39-E-36-V-35
1-2-3-47-77-L-X-39-E-36-V-35
COUNTY OF NASSAU
SEC 44 BLOCK F
LOT 326

9210-162 CO-77198

BUS EX/TRANS

AY 72286
CLASS 414.14 EXEMPT 47600 REASON CODE 15

-16,500 020 -4

1,271,600 020 -4
909,150 020B-4

36-V-35
36-V-35

9210-162 CO-77198

R114083
USINESS EXEMPTION

,372,600 020
808,150 020B-4

-V-35
-V-35

9210-162 CO-77198

SINESS EXEMPTION

414.14 EXEMPT 47600

47600 REASON CODE 2

LAND RECORD

NO UTILITIES		LOW	
NO SEWER		HIGH	
NO WATER		ROUGH	
NO GAS		ROCKY	
NO ELECTRICITY		SWAMPY	
		HILLSIDE	
NO STREET		WOODED	
DIRT STREET		BRUSH LAND	
SEMI IMPROVED ST.		TILLABLE	
NO SIDEWALK		414.14	

LAND VALUE COMPUTATIONS

FRONTAGE FIGURED	AVERAGE DEPTH	UNIT PRICE	UNIT PERCENT	FRONT FT. PRICE	COR. INFL.	TOTAL	$ DEPR.	VALUE
8.09 AC @		12000 Rec	85			97080		
85,690 ft @	1.00					85690		
266,710 ft @	.38 ft					74678		
						160,368		

ASSESSMENT RECORD NASSAU COUNTY, NEW YORK

AR-33-10M-9/66

OCCUPANCY	CONSTRUCTION	SIZE	GRADE	AGE	REMODL'D	COND.	PHY. DEP.	FUNCT. DEP.	REPL. VALUE	PHYSICAL VALUE	SOUND VALUE
									2,056,415	1,004,723	
HOTEL	11 STD. REF & PRECAST CONC		A	1982		G	3		~~2,056,415~~	~~1,004,723~~	
PAVING	BLACK TOP	250,000 SF		1982		G	✓		25,000	23,750	
LITE POLES 25' @	50' FENCE 2000 L/F			1982		G	✓		2000	1,900	
									TOTAL	~~2,019,465~~ 2,020,373	

EXTERIOR WALLS		BSMT	1ST	2ND	3RD	4-11	PRICE	
942	~~SOLID CONC BRICK~~ CONC 4	✓					540	5086
	RUBBLE OR NATIVESTONE							
1244	CONCRETE 12	✓					16.50	20526
	CEMENT OR CINDER BLOCK							
1273	REF. CONC 10"	✓					162.00	206226
	COM. BR. ON TILE OR C. B.							
	FACE BR. ON TILE OR C. B.							
	FACE BR. ON COM. BR.							
	FACE BR. VENEER							
	COM. BR. VENEER							
1244	REF. CONC 18"	✓					270.00	34668
	ART. STONE FACING							266306
	STONE FACING							
	TERRA COTTA FACING							
	STONE OR T. C. TRIM							
	STUCCO ON TILE OR C. B.							
	STUCCO ON FRAME							
	SIDING OR SHINGLES							
	WOOD FRAME WINDOWS	FENESTRA SASH		DOORS				
	PLATE GLASS FRONT	METAL FRAME		WOOD FRAME				
	PLASTERED DIRECT							
	PLASTER ON FURRING							
	~~UN~~FINISHED INTERIOR	✓						

FLOORS & BSMT. AREAS		AREA EXCAVATION AV.			DEEP	
	BASEMENT AREA					
	CONCRETE	✓	✓			
	EARTH					
	PINE OR FIR					
	HARDWOOD					
	PRECAST Rug/Tile	✓	✓	✓	✓	✓
	SUB FLOOR					
	WOOD JOISTS					
	STEEL JOISTS					
	REINFORCED CONCRETE					
	FLAT ARCH TILE					
	MARBLE/Rug/Tile		✓			
	STEEL BEAMS					
	TIMBER BEAMS					
	REIN. CONC. BEAMS					
	PRE CAST	✓	✓	✓	✓	✓

CEILINGS						
	LATH AND PLASTER					
	PRESSED METAL					
	NO CEILING					
	PRE CAST		✓	✓	✓	✓

ROOFING & FRAMING					
	TAR & SLAG	SLATE	METAL		
	COMPOSITION	✓ GLASS RF. DOMING AREA		✓	
	SLIDE ROOF POOL AREA	✓ GLASS RF ATRIUM		✓	
	WOOD JOIST	METAL JOIST	SHEATHING		
	WOOD BEAMS	STEEL BEAMS			

3/9/82 F.F. HOTEL 275,000 bm

SKETCH BACK OF CARD.

12/20/82

MEASURED	
LISTED	✓
AREA COMP.	
PRICED	

MISCELLANEOUS ITEMS			
	CHIMNEYS		
	FIREPLACES	INCINERATORS	
1	BULKHEADS	AREAWAYS	250
✓	PENT HOUSES		1460
6	PASSENGER ELEVATOR		87,720
	FREIGHT ELEVATOR		
	DUMB WAITERS		
✓	SPRINKLER SYSTEM SMOKE DETECTORS		46050
	VENTILATING FANS		
	REFRIGERATORS		
	FIREPROOF CONST.	STEEL FRAME	
			134,480

LOCATION	GOOD	✓ FAIR	POOR
GROSS CUBAGE			

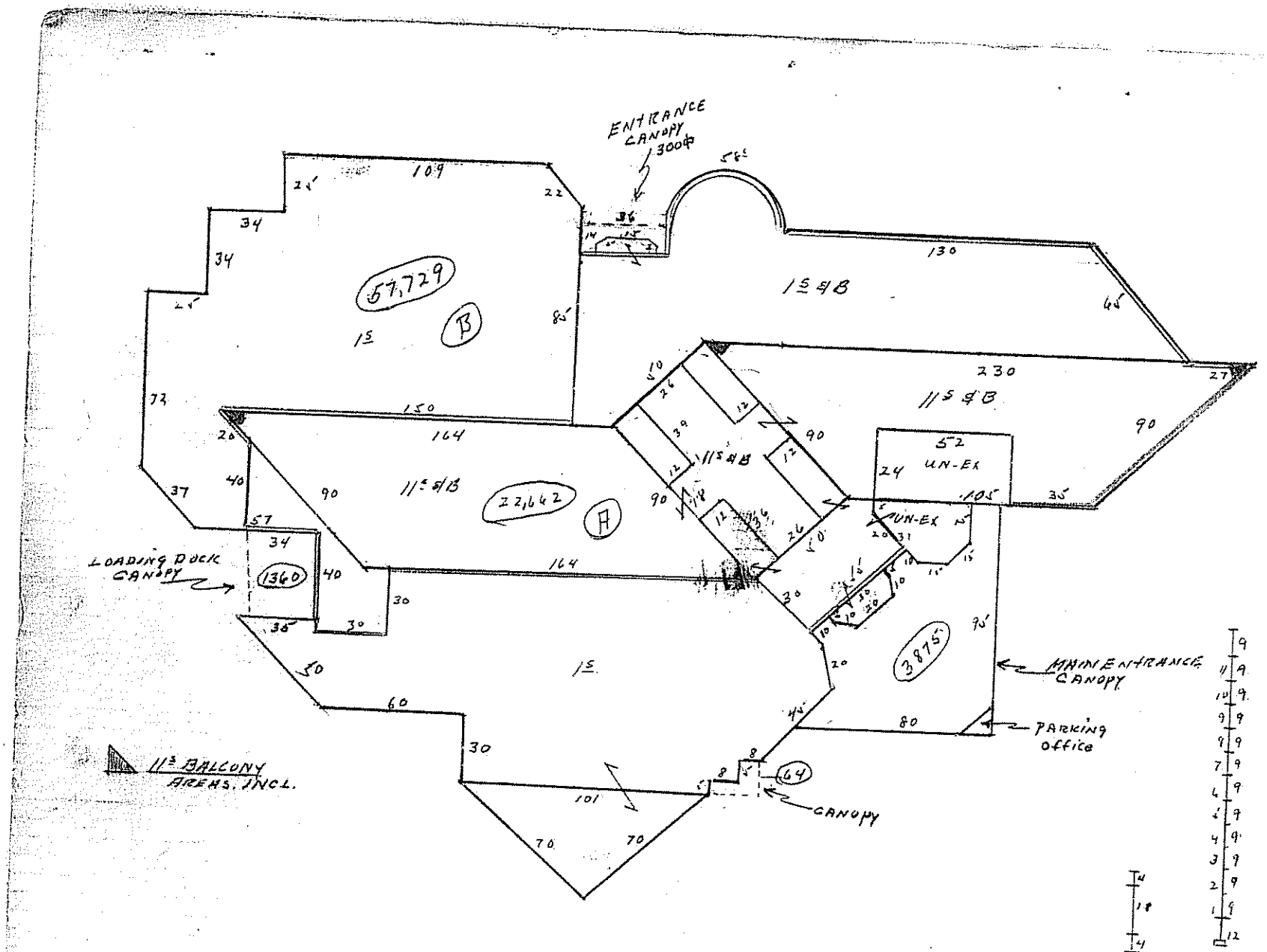
COMPUTATIONS

WALLS (VERTICAL)

	PRE CAST	✓		✓	✓	✓	✓				
	CEILINGS										
	LATH AND PLASTER										
	PRESSED METAL										
	NO CEILING										
	PRE CAST			✓	✓	✓	✓				
	ROOFING & FRAMING										

	TAR & SLAG		SLATE			METAL		✓			
	COMPOSITION	✓	GLASS RF. DINING AREA					✓			
	Slide Roof Pool AREA	✓	GLASS. RF ATRIUM					✓			
	WOOD JOIST		METAL JOIST			SHEATHING					
	WOOD BEAMS		STEEL BEAMS								
	WOOD TRUSSES		STEEL TRUSSES								
	SKY LIGHTS		VENTILATORS			ROOF DRAINS					
	REF CONC	✓						440	12		
	PARTITIONS							(A)	(B)		
	L. & P. ON WOOD STUDS					EXC	.20	.01			
	COM. WOOD BOARD		✓		PRO	B	FL	.75	1.00		
	PLST. BD. ON STUDS	✓				1	FL	1.50	.75		
	PLST. ON TILE OR C. B.					2-11	FL	10.00	—		
	PLST. ON BRICK						REC	1.00	1.50		
							FR	6.00	.50		
	STAIRS & FIRE ESCAPES						HVAC	10.50	1.00		
	PINE STAIRS						ELEC	3.30	.30		
	HARDWOOD STAIRS						SUP	1.20	.15		
4	METAL STAIRS	✓					INT	12.00	2.00		
								46.50	7.25		
	FIRE ESCAPES										
	INTERIOR FINISH										
	PINE DOORS & TRIM										
	HARDWOOD DOORS & TRIM										
	ENAMEL DOORS & TRIM										
			✓								
	FIRE PROOF DOORS / INCL.	✓									
	BUILT IN FEATURES										
	HEATING										
	STEAM										
	VAPOR										
	HOT WATER										
	HOT AIR										
	PIPELESS FURNACE		✓								
	H VAC	✓									
	NO HEATING SYSTEM										
	OIL BURNER		GAS BOILER			COAL STOKER					
	PLUMBING		LOCKER RMS.	✓		SAUNA	2	✓			
	TOILET ROOMS	✓	BATH ROOMS 391	✓							
	WATER CLOSETS EXTRA	✓	SINKS EXTRA			URINALS		✓			
	G. I. PIPING		BRASS PIPING								
	TILING										
	TOILET ROOM FL. & WAINSCOT		TOILET ROOM FL.								
	BATH ROOM FL. & WAINSCOT		BATH ROOM FL.								
	REST ROOMS	✓	KITCHEN	✓							
	LOCKER ROOMS		POOL AREA	✓							
	ELECTRICAL WIRING										
	FLEXIBLE CONDUIT		PIPE CONDUIT								
	KNOB & TUBE										

	REFRIGERATORS										
	FIREPROOF CONST.	STEEL FRAME									


ENTRANCE CANOPY 300#
57,729
B
22,642
A
3875
LOADING DOCK CANOPY
1360
MAIN ENTRANCE CANOPY
PARKING office
11s BALCONY AREAS, INCL.
CANOPY
64
UN-EX
11s SAB
1s SAB

7 4 2 1 TENS	7 4 2 1 UNITS	SPLIT	GLEN COVE	LONG BCH.	OYST. BAY	NO. HEMP	HEMP.	2 1 TENS	7 4 2 1 UNITS	7 4 2 1 TENS	7 4 2 1 UNITS
VILLAGE								SCHOOL DISTRICT		SECTION NUMBER	

VILLAGE	GLEN COVE	LONG BEACH	OYSTER BAY	NORTH HEMP	HEMP.	SCH. DIST.	SECTION	BLOCK	DATE	CHANGE ORDER NO.	EFFECTIVE YEAR
X					X	2	44	F	11-19-90	83698	90

RE
LOT 350

AUTH. CC# 88375 & 88376
DEED 10029 Cp 866 & 886
SURVEY BALDWIN & CORNELIUS

APPORTIONED AS FOLLOWS:

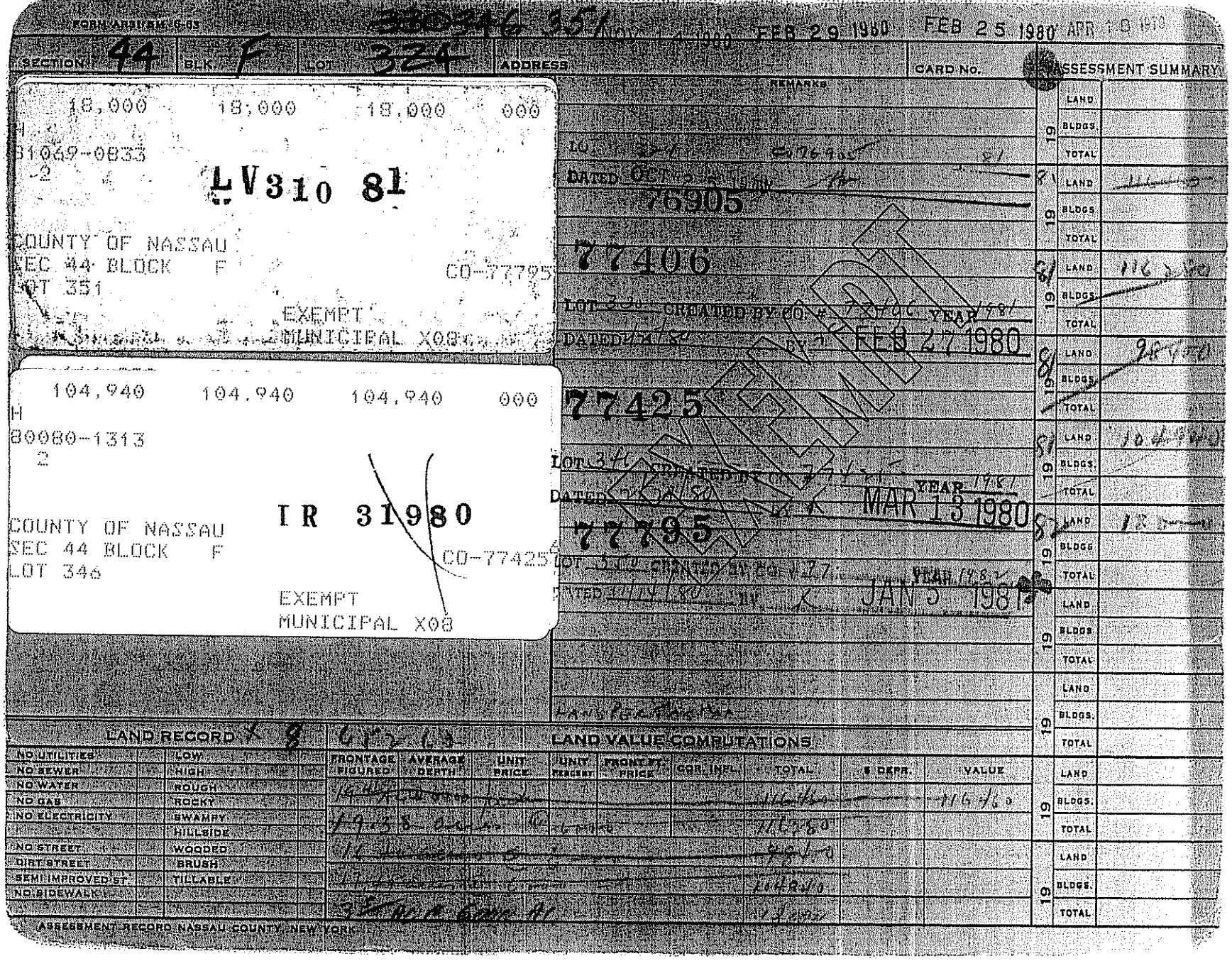
LOT 401 (Fully P/O LOT 350) TO IDA & COLISEUM HOTEL ASSOC.
AREA= 2.942 A
402 (Fully P/O LOT 350) TO IDA & COLISEUM HOTEL ASSOC.
AREA= 3.638 A.
403 (Fully P/O LOT 350) TO COUNTY OF NASSAU
AREA= 74.007 A

TAX MAP DIVISION
DEPT. OF ASSESSMENT
COUNTY OF NASSAU, N. Y.

PRICED BY

MEMO BY Lucie Macedo

V34989X


FORM ARSTEAK 6-63
SECTION 44
BLK F
LOT 324
ADDRESS
CARD No.
ASSESSMENT SUMMARY
FEB 29 1980
FEB 25 1980
APR 19 1979
18,000 18,000 18,000 000
H
81049-0833
2
LV310 81
COUNTY OF NASSAU
SEC 44 BLOCK F
LOT 351
CO-77795
EXEMPT
MUNICIPAL X08
104,940 104,940 104,940 000
H
80080-1313
2
IR 31980
COUNTY OF NASSAU
SEC 44 BLOCK F
LOT 346
CO-77425
EXEMPT
MUNICIPAL X08
REMARKS
DATED OCT 3 1979
76905
77406
CREATED BY CO #
YEAR
FEB 27 1980
77425
CREATED BY CO #
YEAR
MAR 13 1980
77795
CREATED BY CO #
YEAR
JAN 5 1981
LAND RECORD
NO UTILITIES
NO SEWER
NO WATER
NO GAS
NO ELECTRICITY
NO STREET
DIRT STREET
SEMI IMPROVED ST.
NO SIDEWALK
LOW
HIGH
ROUGH
ROCKY
SWAMPY
HILLSIDE
WOODED
BRUSH
TILLABLE
LAND VALUE COMPUTATIONS
FRONTAGE FIGURED
AVERAGE DEPTH
UNIT PRICE
UNIT PERCENT
FRONT FT. PRICE
COR. INFL.
TOTAL
% DEPR.
VALUE
ASSESSMENT RECORD NASSAU COUNTY, NEW YORK
LAND
BLDGS.
TOTAL

FORM AR31 SM 6-63

330 34 35 NOV 14 1980 FEB 29 1980 FEB 25 1980

SECTION	BLK.	LOT	ADDRESS	CARD No.
44	F	324		

LV 310 81

104,940 104,940 104,940 000

H

80080-1313

2

COUNTY OF NASSAU
SEC 44 BLOCK F
LOT 346

TR 31980

CO-77425

EXEMPT
MUNICIPAL X08

REMARKS

LO. 324 CO. 76

DATED OCT 25 1979 BY

76905

77406

LOT 324 CREATED BY CO. # 77406 YEAR 1981

DATED 2/27/80 BY FEB 27 1980

77425

LOT 346 CREATED BY CO. # 77425 YEAR 1981

DATED 2/28/80 BY MAR 13 1980

77795

LOT 346 CREATED BY CO. # 77795 YEAR 1981

DATED 11/14/80 BY JAN 5 1981

CANCELLED

ASSESSMENT SUMMARY

19	LAND	
	BLDGS.	
	TOTAL	
19	LAND	
	BLDGS.	
	TOTAL	
19	LAND	
	BLDGS.	
	TOTAL	
19	LAND	
	BLDGS.	
	TOTAL	
19	LAND	
	BLDGS.	
	TOTAL	
19	LAND	
	BLDGS.	
	TOTAL	
19	LAND	
	BLDGS.	
	TOTAL	
19	LAND	
	BLDGS.	
	TOTAL	

LAND RECORD 8

NO UTILITIES		LOW
NO SEWER		HIGH
NO WATER		ROUGH
NO GAS		ROCKY
NO ELECTRICITY		SWAMPY
		HILLSIDE
NO STREET		WOODED
DIRT STREET		BRUSH
SEMI IMPROVED ST.		TILLABLE
NO.SIDEWALK		

LAND VALUE COMPUTATIONS

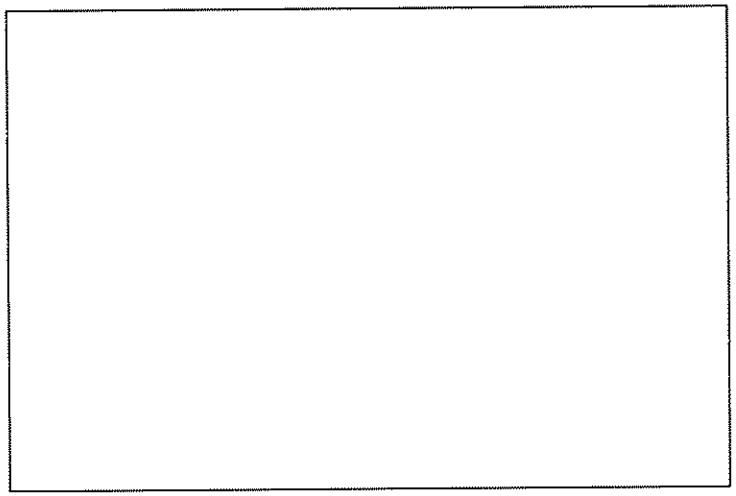
FRONTAGE FIGURED	AVERAGE DEPTH	UNIT PRICE	UNIT PERCENT	FRONT FT. PRICE	COR. INFL.	TOTAL	$ DEPR.	VALUE
19.38								
3± Ac @ Good Rt								

ASSESSMENT RECORD NASSAU COUNTY, NEW YORK

COMMERCIAL / INDUSTRIAL REVIEW DOCUMENT
NASSAU, NY

CARD 1 OF 1 TAX YEAR 2007 TIEBACK

44- F- -0351.0
ALT ID 351 MAP/ROUTE FIELD REVIEW FLAG ( )
TAX CODE 4 ZONING TAX DIST 025-4 025-4
ADDRESS FULTON AVE
NBHD C1102 RESTRICTIONS / /
LUC 6526 --O W N E R S H I P D A T A-- ---- S A L E S D A T A----
LVG UNIT 1 COUNTY OF NASSAU DATE TYPE PRICE S V
CLASS 4
BOOK/PAGE: 08802/0349 1 WEST STREET
MINEOLA NY 11501



---------- PROPERTY FACTORS ----------
TOPO 1/ / LEVEL /
UTIL 1/ / ALL PUBL /
ST/RD 1/ PAVED
TRAFFIC 2 MEDIUM

---ENTRANCE INFORMATION ---
DATE CD INFO CD ID
10/18/2001 0E 344

------------ LOCATION FACTORS ------------
FRONTING
LOCATION 7 COMMERCI LAND ADJ %
PARKING TYPE QUANTITY PROXIMITY EXEMPT
AVAIL / / COLLISEUM PARKING

---------- NOTES ------

------- LAND DATA -------
ACRES --------- C A L P T A B L E--------
TY SQFT/UNITS BASE BASE INCR
PE LN CD FRONT DEPTH PRICE INFL -FAC SIZE RATE /DECR LAND-VAL
SQ 1 1 117.500 23.14 0 23.14 23.14 2,718,950.00
PRIMARY SITE ADJ FACTOR(CA14) 1.0000

--------- APARTMENT INFORMATION ---------
USE MDL COUNT BED BATH HALF OTHER UNITS

GROSS LN CODE VALUE LAND-VAL
TOTAL ACRES 2.6974 TOTAL LAND-VALUE 2,718,950
TOT SIZE 2.6974 NBHD 611 ZONE 0 LOC 7 UTILITY 0 STREET 0
LAND ADJ ADJ FACTOR (CA11) 1.0000 ADJ FACTOR (AA44) 1.0000

MISC. IMPROVEMENTS 0
GROSS BUILDING SUMMARY
DESCR VALUE 0
---------- BUILDING PERMIT RECORD ---------
DATE NUMBER AMOUNT PURPOSE

INTERIOR / EXTERIOR INFORMATION

LINE	LNUM SCT	LEVELS FRM	TO	DIMENSION YRBLT	WDTH	LGTH	AREA	PERM	USE TYPE	HT	EXT	CON	INT FIN	PTN	HT	AC	PLB	LT	OTHER FEAT	RCN	BASE RCN	RCNICE PER SF	PHY	FUN	%RENT	% GD	%COMP

OTHER BUILDING & YARD IMPROVEMENTS

TYP	YEAR	EFF	SIZE	GRD	QN	MODS	C	F	%COMP	MA%	ADJFACT	VALUE
PA1	1974		117500	C	1		3	3		50	1.0000	261400
PAVING ASP												
WA1	1974		6X750	C	1		3	3		50	1.0000	8000
FENCE CHLK												

TOTAL OBY VALUE 269,400

PARKING DATA

COVERED 0 UNCOVERED 0

TOTAL SQUARE FEET:		0
BASE R.C.N.		0
	.00	/SQFT
GRADE FACTOR		
ADJ R.C.N.		0
	.00	/SQFT
OVERALL % GOOD		
R.C.N.L.D.		
	.00	/SQFT
NO IDENT UNITS		
TOTAL R.C.N.L.D.		0
ADJUSTMENT FACTOR (CA31)		
TOTAL YARD IMP VALUE		269,400
OTHER: _____		0
TOTAL CARD VALUE		269,400
ECF % (CA11)		

PARCEL SUMMARY VALUES

PARCEL TOTAL			COST APPROACH			INCOME APPROACH		
LAND SIZE	117,500	LAND	2,718,950	23.14 /SQFT	LAND	0	.00 /SQFT	
BLDG SIZE	0	IMP	269,400	269,400.00 /SQFT	IMP	0	.00 /SQFT	
		TOTAL	2,988,350	2,988,350.00 /SQFT	TOTAL	0	.00 /SQFT	

ADJUSTED R.C.N.	0	.00 /SQFT
OVERALL % GOOD	0	
R.C.N.L.D.	0	.00 /SQFT
(INCLUDES PERCENT COMPLETE - SEE CARD DETAIL)		
BLDG ADJ FACTOR (CA31)	1.0000	
TOTAL YARD IMP VALUE	269,400	
TOTAL OTHER IMP VALUE	0	
TOTAL IMP VALUE	269,400	
ECF 0%		
ADJ TOTAL IMP VALUE	269,400	
IMP VALUE	269,400	ADJ TOTAL IMP VALUE * BLDG ADJ FACTORS (AA44)· 1.0000 * (CA11)· 1.0000
LAND VALUE	2,718,950	
TOTAL VALUE	2,988,350	

PREVIOUS YEARS VALUES		PREV YEARS APPRAISED VALUES	
LAND	BUILDING	LAND	BUILDING
2,467,500	238,400	2,467,500	238,400

CURRENT LAND	2,718,950	BUILDING	269,400	TOTAL	2,988,350
ASSESSED LAND	0	BUILDING	0	TOTAL	0
REVIEW CODE	1 COST APPROACH	REVIEW REASON	REV	REVAL VALUE UPD	
REVIEW DATE	31-JUL-03	REVIEWER ID			
ESTIMATE LAND	_____	BUILDING	_____	TOTAL	_____
REVIEW CODE	REVIEW REASON _____				
REVIEW DATE	_____	REVIEWER ID	_____		
REVIEW STATUS	7				
MAINTAINED ON	17-APR-04 STATUS				

44- F- -0401.0 CARD 1 OF 1 TAX YEAR 2007 TIEBACK 44 F 03260
ALT ID MAP/ROUTE FIELD REVIEW FLAG ( )
TAX CODE 4 ZONING TAX DIST 020-4 020-4
ADDRESS 101 JAMES DOOLITTLE BLVD
NBHD C1102 RESTRICTIONS / /
LUC 4107 --O W N E R S H I P D A T A-- ---- S A L E S D A T A----
LVG UNIT 0 I D A & COLISEUM HOTEL ASSOC DATE TYPE PRICE S V
CLASS 4
BOOK/PAGE: 10029/0866 101 JAMES DOOLITTLE BLVD
UNIONDALE NY 11553

---------- PROPERTY FACTORS ----------
TOPO 1/ / LEVEL /
UTIL 1/ / ALL PUBL /
ST/RD 1/ PAVED
TRAFFIC 2 MEDIUM

---ENTRANCE INFORMATION ---
DATE CD INFO CD ID
05/01/2001 0C 114

------------ LOCATION FACTORS ------------
FRONTING
LOCATION 7 COMMERCI LAND ADJ %
PARKING TYPE QUANTITY PROXIMITY
AVAIL / /

---------- NOTES ------

------- LAND DATA -------
ACRES --------- C A L P T A B L E--------
TY SQFT/UNITS BASE BASE INCR
PE LN CD FRONT DEPTH PRICE INFL -FAC SIZE RATE /DECR LAND-VAL
SQ 1 1 128.154 23.14 0 23.14 23.14 2,965,480.00
PRIMARY SITE ADJ FACTOR(CA14) 1.0000

--------- APARTMENT INFORMATION ---------
USE MDL COUNT BED BATH HALF OTHER UNITS

GROSS LN CODE VALUE LAND-VAL
TOTAL ACRES 2.9420 TOTAL LAND-VALUE 2,965,480
TOT SIZE 2.9420 NBHD 611 ZONE 0 LOC 7 UTILITY 0 STREET 0
LAND ADJ ADJ FACTOR (CA11) 1.0000 ADJ FACTOR (AA44) 1.0000

MISC. IMPROVEMENTS 0
GROSS BUILDING SUMMARY
DESCR VALUE 0
---------- BUILDING PERMIT RECORD ---------
DATE NUMBER AMOUNT PURPOSE

INTERIOR / EXTERIOR INFORMATION

LINE	LNUM SCT	FRM	TO	LEVELS YRBLT	DIMENSION WDTH	LGTH	AREA	PERM	USE TYPE	HT	INT EXT CON	FIN	PTN	HT AC	PLB	LT	OTHER FEAT RCN	BASE RCN	RCNICE PER SF	PHY	FUN	%RENT	% GD	%COMP

OTHER BUILDING & YARD IMPROVEMENTS

TYP	YEAR	EFF	SIZE	GRD	QN	MODS	C	F	%COMP	MA%	ADJFACT	VALUE
PA1	1982		100000	C	1		3	3		50	1.0000	222500

PAVING ASP

TOTAL OBY VALUE 222,500

PARKING DATA

COVERED 0 UNCOVERED 0

TOTAL SQUARE FEET:		0
BASE R.C.N.		0
	.00	/SQFT
GRADE FACTOR		
ADJ R.C.N.		0
	.00	/SQFT
OVERALL % GOOD		
R.C.N.L.D.		
	.00	/SQFT
NO IDENT UNITS		
TOTAL R.C.N.L.D.		0
ADJUSTMENT FACTOR (CA31)		
TOTAL YARD IMP VALUE		222,500
OTHER:		0
TOTAL CARD VALUE		222,500
ECF % (CA11)		

44- F- -0401.0 CARD 1 OF 1 TAX YEAR 2007 TIEBACK 44 F 03260

ALT ID MAP/ROUTE FIELD REVIEW FLAG ( )

PARCEL SUMMARY VALUES

PARCEL TOTAL			COST APPROACH			INCOME APPROACH		
LAND SIZE	128,154	LAND	2,965,480	23.14	/SQFT	LAND 0	.00	/SQFT
BLDG SIZE	0	IMP	222,500	222,500.00	/SQFT	IMP 0	.00	/SQFT
		TOTAL	3,187,980	3,187,980.00	/SQFT	TOTAL 0	.00	/SQFT

ADJUSTED R.C.N.	0	.00	/SQFT
OVERALL % GOOD	0		
R.C.N.L.D.	0	.00	/SQFT

(INCLUDES PERCENT COMPLETE - SEE CARD DETAIL)

BLDG ADJ FACTOR (CA31)	1.0000	
TOTAL YARD IMP VALUE	222,500	
TOTAL OTHER IMP VALUE	0	
TOTAL IMP VALUE	222,500	
ECF 0%		
ADJ TOTAL IMP VALUE	222,500	
IMP VALUE	222,500	ADJ TOTAL IMP VALUE * BLDG ADJ FACTORS (AA44)· 1.0000 * (CA11)· 1.0000
LAND VALUE	2,965,480	
TOTAL VALUE	3,187,980	

PREVIOUS YEARS VALUES		PREV YEARS APPRAISED VALUES	
LAND	BUILDING	LAND	BUILDING
2,691,230	196,900	2,691,230	196,900

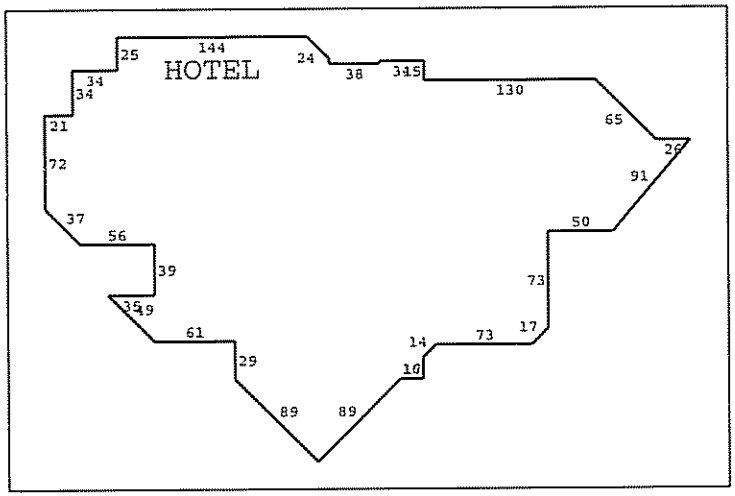
CURRENT LAND 2,965,480 BUILDING 222,500 TOTAL 3,187,980
ASSESSED LAND 0 BUILDING 0 TOTAL 0
REVIEW CODE 1 COST APPROACH REVIEW REASON FRF FIELD REVIEW FINAL
REVIEW DATE 01-OCT-03 REVIEWER ID HOTEL TB

ESTIMATE LAND _____ BUILDING _____ TOTAL _____
REVIEW CODE REVIEW REASON _____
REVIEW DATE _____ REVIEWER ID _____
REVIEW STATUS 7
MAINTAINED ON 17-APR-04 STATUS

COMMERCIAL / INDUSTRIAL REVIEW DOCUMENT
NASSAU, NY

44- F- -0326.0 CARD 1 OF 1 TAX YEAR 2007 TIEBACK 44 F 04010

ALT ID MAP/ROUTE FIELD REVIEW FLAG ( )
TAX CODE 4 ZONING TAX DIST 020-4 020-4
ADDRESS 101 JAMES DOOLITTLE BLVD
NBHD C1102 RESTRICTIONS / /
LUC 4141 --O W N E R S H I P D A T A-- ---- S A L E S D A T A----
LVG UNIT 618 COUNTY OF NASSAU DATE TYPE PRICE S V
CLASS 4
BOOK/PAGE: 09210/0162 101 JAMES DOOLITTLE BLVD
UNIONDALE NY 11553



---------- PROPERTY FACTORS ----------
TOPO 1/ / LEVEL /
UTIL 1/ / ALL PUBL /
ST/RD 1/ PAVED
TRAFFIC 2 MEDIUM

---ENTRANCE INFORMATION ---
DATE CD INFO CD ID
09/01/2004 7 GD
11/05/2003 BI
05/01/2001 0C 114

---------- LOCATION FACTORS ----------
FRONTING
LOCATION 7 COMMERCI LAND ADJ %
PARKING TYPE QUANTITY PROXIMITY
AVAIL / /

---------- NOTES ------
MARRIOT HOTEL
SEE MANUAL SKETCH

TIEBACK:44 F 04020

------- LAND DATA -------
ACRES
TY SQFT/UNITS
PE LN CD FRONT DEPTH PRICE INFL -FAC
SQ 1 1 364,508 23.14
PRIMARY SITE

--------- C A L P T A B L E--------

	BASE SIZE	BASE RATE	INCR /DECR	LAND-VAL
	0	23.14	23.14	8,434,720.00

ADJ FACTOR(CA14) 1.0000

--------- APARTMENT INFORMATION ---------
USE MDL COUNT BED BATH HALF OTHER UNITS

GROSS LN CODE VALUE LAND-VAL
TOTAL ACRES 8.3680 TOTAL LAND-VALUE 8,434,720
TOT SIZE 8.3680 NBHD 611 ZONE 0 LOC 7 UTILITY 0 STREET 0
LAND ADJ ADJ FACTOR (CA11) 1.0000 ADJ FACTOR (AA44) 1.0000

MISC. IMPROVEMENTS 0
GROSS BUILDING SUMMARY
DESCR VALUE 0

---------- BUILDING PERMIT RECORD ---------

DATE	NUMBER	AMOUNT	PURPOSE
09/01/04	FLY101739		22
09/19/03	200303719	65,000	29
02/04/03	290995		14

BLDG 1 YR BLT 1982 EFF YR # UNITS 618 STRUCTURE 314 HTL/MTL HIRI GRADE B+ ID. UNITS 1 MARRIOTT HOTEL INV RAT A

BUILDING OTHER FEATURES / ATTACHED IMPROVEMENTS

LN	LNUM	CODE	DESCRIPTION	+/-	MEAS1	MEAS2	STOPS	IU	UNIT COST	PRICE
1	2	EL2	ELEVATOR ELECTRIC PASNGR		3000	300	12	3		1,070,910
2	2	EL4	ELEVATOR HYDRAULIC PASNGR		3000	100	4	1		183,210
3	2	EL1	ELEVATOR ELECTRIC FREIGHT		4000	100	11	2		785,660
4	2	CP5	CANOPY ONLY		586	1		1	18.26	10,700
5	2	CP5	CANOPY ONLY		1156	1		1	18.26	21,110
6	2	LD4	TRUCK & TRAIN WELLS		2482	1		1	33.25	82,530
7	2	SC2	INDOOR POOL		1000	1		1	116.71	116,710
8	2	SC2	INDOOR POOL		1	223		1	116.71	26,020

*** LOOK AT BUILDING OTHER FEATURES DETAILED RECORD FOR MORE INFORMATION ***

INTERIOR / EXTERIOR INFORMATION

LINE	SCT	FRM	TO	LEVELS YRBLT	DIMENSION WDTH LGTH	AREA	USE PERM	USE TYPE	HT	EXT	CON	INT FIN	PTN	HT	AC	PLB	LT	OTHER FEAT RCN	BASE RCN	RCN PER SF	PHY	FUN	%RENT	% GD	%COMP
1	1	B1	B1	1982		21460	1050	086 00	10	00	3	100	2	1	1	2	2	0	1,409,707	65.69	3	3		77	
							SUPPORT ARE			NONE	FRF		NRM	HOT	CTR	NRM	NORM				AV	AV			
2	1	01	01	1982		92002	1105	012 02	9	14	3	100	2	1	1	2	2	3,110,830	15,992,950	140.02	3	3		77	
							HOTEL			CONC	FRF		NRM	HOT	CTR	NRM	NORM				AV	AV			
3	1	02	11	1982		22589	1105	012 02	9	14	3	100	2	1	1	2	2	0	30,635,202	135.62	3	3		77	
							HOTEL			CONC	FRF		NRM	HOT	CTR	NRM	NORM				AV	AV			
4	2	01	01	1982		33677	656	012 02	16	14	3	100	2	1	1	2	2	0	4,715,454	140.02	3	3		77	
							HOTEL			CONC	FRF		NRM	HOT	CTR	NRM	NORM				AV	AV			
5	3	01	01	1982		6863	240	012 02	20	14	3	100	2	1	1	2	2	0	960,957	140.02	3	3		77	
							HOTEL			CONC	FRF		NRM	HOT	CTR	NRM	NORM				AV	AV			
6	4	01	01	1982		17526	458	012 02	16	14	3	100	2	1	1	2	2	0	2,453,991	140.02	3	3		77	
							HOTEL			CONC	FRF		NRM	HOT	CTR	NRM	NORM				AV	AV			
7	5	B1	B1	1990		11791	463	086 00	10	00	3	100	2	1	1	2	2	0	774,551	65.69	3	3		85	
							SUPPORT ARE			NONE	FRF		NRM	HOT	CTR	NRM	NORM				AV	AV			
8	5	01	01	1990		11791	463	012 02	9	14	3	100	2	1	1	2	2	0	1,650,976	140.02	3	3		85	
							HOTEL			CONC	FRF		NRM	HOT	CTR	NRM	NORM				AV	AV			

*** LOOK AT INTERIOR/EXTERIOR DETAILED RECORD FOR MORE INFORMATION ***

OTHER BUILDING & YARD IMPROVEMENTS

TYP	YEAR	EFF	SIZE	GRD	QN	MODS	C	F	%COMP	MA%	ADJFACT	VALUE
PA1	1982		200000	C	1		3	3		50	1.0000	445000
PAVING ASP												
WA1	1982		6X1500	C	1		3	3		50	1.0000	16000
FENCE CHLK												
GT1	1982		1X72	C	1		3	3		89	1.0000	27400
GATE HOUSE												

TOTAL OBY VALUE 488,400

PARKING DATA

COVERED	0	UNCOVERED	300

TOTAL SQUARE FEET:	538,911	
BASE R.C.N.	74,584,733	
	138.40	/SQFT
GRADE FACTOR	1.35	
ADJ R.C.N.	100,689,390	
	186.84	/SQFT
OVERALL % GOOD	79	
R.C.N.L.D.	79,519,810	
	147.56	/SQFT
NO IDENT UNITS	1	
TOTAL R.C.N.L.D.	79,519,810	
ADJUSTMENT FACTOR (CA31)	1.0000	
TOTAL YARD IMP VALUE	488,400	
OTHER: _____	0	
TOTAL CARD VALUE	80,008,210	
ECF 53 % (CA11)	42,404,351	

MODEL TYPE -02 - MOTEL LR

MODEL NUM: 001

EST ECONOMIC INCOME

NO RENTABLE ROOMS	MODEL AV DAILY RATE @ 100%		ECO ADJ		ADJ AV DAILY RATE	ANNUALIZED POTENTIAL GROSS RENT	
618	180.00	X	90.0%	=	162.00	36,542,340	ROOM INCOME

VACANCY AND CREDIT LOSS

MODEL		AGE ADJ		ECO ADJ		ADJ VAC/CL		
32.0%	X	100.0%	X	110.0%	=	35.2%	-12,862,900	VACANCY ROOMS

EFFECTIVE GROSS INCOME	23,679,440	AV ACT DAILY RATE	104.98
FOOD - BEV - OTHER SALES INCOME	12,786,895		
ADDITIONAL INCOME	0		

MODEL RATE PSF		ECO ADJ		ADJ UTIL EXP PSF			
45.0%	X	54.0%	=	24.3%	12,786,895	PER ROOM	56.69
TOTAL EFFECTIVE GROSS INCOME					36,466,330		

EXPENSES

DEPARTMENTAL (ROOM SERVICE-FOOD-BEV-PHONE)
GENERAL OPERATING EXPENSES

ADJ RATIO	
77.0%	-28,079,070

NET INCOME 8,387,256

OPERATING / DEPARTMENTAL EXPENSES

MODEL RATIO		AGE ADJ		ECO ADJ		ADJ EXP
70.0	X	100.0%	X	110.0%	=	77.0%

CAPITALIZATION SUMMARY

	NET LEASABLE AREA	NET INCOME
02 - MOTEL LR	505,659	8,387,256

CAPITALIZATION RATE COMPONENTS
OVERALL RETURN RATE

MODEL OR	OVERRIDE	=	CAP RATE
.1000	.0000%	=	.1000%

TAX RATE	=	ADJ RATE
.0515	=	.0515

ADJUSTED CAP RATE % .1515 %

TOTAL NET LEASEABLE AREA (EXCLUDING ENCLOSURES, PARKING GARAGE, ETC.)	505,659
TOTAL NET INCOME	8,387,256
DIRECT OVERALL CAPITALIZATION	.1515%
INDICATED VALUE (INCOME)	55,356,310
RESIDUAL LAND VALUE	0
LESS VALUE - PERSONAL PROPERTY	10,833,848
TOTAL INDICATED VALUE (INCOME)	44,522,460

PARCEL SUMMARY VALUES

			COST APPROACH			INCOME APPROACH	
PARCEL TOTAL LAND SIZE	364,508	LAND	8,434,720	23.14 /SQFT	LAND	8,434,720	23.14 /SQFT
BLDG SIZE	538,911	IMP	42,404,350	78.69 /SQFT	IMP	36,087,740	66.96 /SQFT
		TOTAL	50,839,070	94.34 /SQFT	TOTAL	44,522,460	82.62 /SQFT

ADJUSTED R.C.N.		100,689,390	186.84 /SQFT
OVERALL % GOOD		79	
R.C.N.L.D.		79,519,810	147.56 /SQFT
(INCLUDES PERCENT COMPLETE - SEE CARD DETAIL)			
BLDG ADJ FACTOR (CA31)		1.0000	
TOTAL YARD IMP VALUE		488,400	
TOTAL OTHER IMP VALUE		0	
TOTAL IMP VALUE		80,008,210	
ECF	53%		
ADJ TOTAL IMP VALUE		42,404,351	
IMP VALUE		42,404,350	ADJ TOTAL IMP VALUE * BLDG ADJ FACTORS (AA44) 1.0000 * (CA11) 1.0000
LAND VALUE		8,434,720	
TOTAL VALUE		50,839,070	

PREVIOUS YEARS VALUES		PREV YEARS APPRAISED VALUES	
LAND	BUILDING	LAND	BUILDING
7,654,670	38,063,020	7,654,670	38,063,020

CURRENT LAND	8,434,720	BUILDING	36,087,740	TOTAL	44,522,460
ASSESSED LAND	0	BUILDING	0	TOTAL	0
REVIEW CODE	4 INCOME APPROACH	REVIEW REASON	CDO CHANGE DATA OTHER		
REVIEW DATE	08-NOV-04	REVIEWER ID	HOTEL TB		
ESTIMATE LAND	_____	BUILDING	_____	TOTAL	_____
REVIEW CODE	REVIEW REASON _____	REVIEWER ID	_____		
REVIEW DATE	_____				
REVIEW STATUS	7				
MAINTAINED ON	08-DEC-04 STATUS				

44- F- -0403.0 CARD 1 OF 1 TAX YEAR 2007 TIEBACK
ALT ID MAP/ROUTE FIELD REVIEW FLAG ( )
TAX CODE 4 ZONING TAX DIST 020-4 020-4
ADDRESS CHARLES LINDBERGH BLVD
NBHD C1102 RESTRICTIONS / /
LUC 6526 --O W N E R S H I P D A T A-- ---- S A L E S D A T A----
LVG UNIT 0 COUNTY OF NASSAU DATE TYPE PRICE S V
CLASS 4
BOOK/PAGE: 09340/0017 1 WEST STREET
MINEOLA NY 11501

---------- PROPERTY FACTORS ----------
TOPO 1/ / LEVEL /
UTIL 1/ / ALL PUBL /
ST/RD 1/ PAVED
TRAFFIC 2 MEDIUM

---ENTRANCE INFORMATION ---
DATE CD INFO CD ID
10/18/2001 8E 344

------------ LOCATION FACTORS ------------
FRONTING
LOCATION 7 COMMERCI LAND ADJ %
PARKING TYPE QUANTITY PROXIMITY
AVAIL / /

---------- NOTES ------
EXEMPT - SIZE AS PER
THOMAS ZWICKE - DIRECTOR OF OPERATIONS
STADIUM =457X337=154,009. 32 LUXURY BOX
INCL 60,000 SF ARENA

------- LAND DATA -------
ACRES --------- C A L P T A B L E--------
TY SQFT/UNITS BASE BASE INCR
PE LN CD FRONT DEPTH PRICE INFL -FAC SIZE RATE /DECR LAND-VAL
SQ 1 1 3,223,745 23.14 0 23.14 23.14 74,597,460.00
PRIMARY SITE ADJ FACTOR(CA14) 1.0000

--------- APARTMENT INFORMATION ---------
USE MDL COUNT BED BATH HALF OTHER UNITS

GROSS LN CODE VALUE LAND-VAL
TOTAL ACRES 74.0070 TOTAL LAND-VALUE 74,597,460
TOT SIZE 74.0070 NBHD 611 ZONE 0 LOC 7 UTILITY 0 STREET 0
LAND ADJ ADJ FACTOR (CA11) 1.0000 ADJ FACTOR (AA44) 1.0000

MISC. IMPROVEMENTS 0
GROSS BUILDING SUMMARY
DESCR VALUE 0
---------- BUILDING PERMIT RECORD ---------
DATE NUMBER AMOUNT PURPOSE
06/09/03 200301993 22

INTERIOR / EXTERIOR INFORMATION

LINE	LNUM SCT	LEVELS FRM	TO	DIMENSION YRBLT	WDTH	LGTH	AREA	PERM	USE TYPE	HT	INT EXT CON	FIN	PTN	HT	AC	PLB	LT	OTHER FEAT RCN	BASE RCN	RCNICE PER SF	PHY	FUN	%RENT	% GD	%COMP

OTHER BUILDING & YARD IMPROVEMENTS

TYP	YEAR	EFF	SIZE	GRD	QN	MODS	C	F	%COMP	MA%	ADJFACT	VALUE
AI1 INDR ARENA	1972		2X9000	B	1		3	3		50	1.0000	121047100
PA1 PAVING ASP	1972		2613600	C	1		3	3		50	1.0000	5815300
PC1 PAVING CON	1972		80000	C	1		3	3		50	1.0000	341800
WA1 FENCE CHLK	1972		6X7963	C	1		3	3		50	1.0000	85100
RS1 FRAME SHED	1974		15X25	C	1		3	3		50	1.0000	5200

TOTAL OBY VALUE 127,294,500

PARKING DATA

COVERED 0 UNCOVERED 0

TOTAL SQUARE FEET:		0
BASE R.C.N.		0
	.00	/SQFT
GRADE FACTOR		
ADJ R.C.N.		0
	.00	/SQFT
OVERALL % GOOD		
R.C.N.L.D.		
	.00	/SQFT
NO IDENT UNITS		
TOTAL R.C.N.L.D.		0
ADJUSTMENT FACTOR (CA31)		
TOTAL YARD IMP VALUE		127,294,500
OTHER: _____		0
TOTAL CARD VALUE		127,294,500
ECF % (CA11)		

PARCEL SUMMARY VALUES

PARCEL TOTAL			COST APPROACH				INCOME APPROACH			
LAND SIZE	3,223,745	LAND	74,597,460	23.14	/SQFT	LAND	0	.00	/SQFT	
BLDG SIZE	0	IMP	127,294,500	127,294,500.00	/SQFT	IMP	0	.00	/SQFT	
		TOTAL	201,891,960	201,891,960.00	/SQFT	TOTAL	0	.00	/SQFT	

ADJUSTED R.C.N.	0	.00	/SQFT
OVERALL % GOOD	0		
R.C.N.L.D.	0	.00	/SQFT
(INCLUDES PERCENT COMPLETE - SEE CARD DETAIL)			
BLDG ADJ FACTOR (CA31)	1.0000		
TOTAL YARD IMP VALUE	127,294,500		
TOTAL OTHER IMP VALUE	0		
TOTAL IMP VALUE	127,294,500		
ECF 0%			
ADJ TOTAL IMP VALUE	127,294,500		
IMP VALUE	127,294,500	ADJ TOTAL IMP VALUE * BLDG ADJ FACTORS (AA44)	1.0000 * (CA11)· 1.0000
LAND VALUE	74,597,460		
TOTAL VALUE	201,891,960		

PREVIOUS YEARS VALUES		PREV YEARS APPRAISED VALUES	
LAND	BUILDING	LAND	BUILDING
67,698,650	112,634,100	67,698,650	112,634,100

CURRENT LAND	74,597,460	BUILDING	127,294,500	TOTAL	201,891,960
ASSESSED LAND	0	BUILDING	0	TOTAL	0
REVIEW CODE	5 COST SUPPRESS INCOME	REVIEW REASON	REV	REVAL VALUE UPD	
REVIEW DATE	31-JUL-03	REVIEWER ID			
ESTIMATE LAND	_____	BUILDING	_____	TOTAL	_____
REVIEW CODE	REVIEW REASON _____				
REVIEW DATE	_____	REVIEWER ID	_____		
REVIEW STATUS	7				
MAINTAINED ON	17-APR-04 STATUS				

44- F- -0402.0 CARD 1 OF 1 TAX YEAR 2007 TIEBACK 44 F 03260
ALT ID MAP/ROUTE FIELD REVIEW FLAG ( )
TAX CODE 4 ZONING TAX DIST 020-4 020-4
ADDRESS HEMPSTEAD TPKE
NBHD C1102 RESTRICTIONS / /
LUC 4380 --O W N E R S H I P D A T A-- ---- S A L E S D A T A----
LVG UNIT 0 COUNTY OF NASSAU DATE TYPE PRICE S V
CLASS 4
BOOK/PAGE: 10029/0866 380 MADISON AVENUE
NEW YORK NY 10017

---------- PROPERTY FACTORS ----------
TOPO 1/ / LEVEL /
UTIL 1/ / ALL PUBL /
ST/RD 1/ PAVED
TRAFFIC 3 HEAVY

---ENTRANCE INFORMATION ---
DATE CD INFO CD ID
05/01/2001 0C 114

------------ LOCATION FACTORS ------------
FRONTING
LOCATION 4 MAJOR ST LAND ADJ %
PARKING TYPE QUANTITY PROXIMITY
AVAIL / /

---------- NOTES ------

------- LAND DATA -------
ACRES --------- C A L P T A B L E--------
TY SQFT/UNITS BASE BASE INCR
PE LN CD FRONT DEPTH PRICE INFL -FAC SIZE RATE /DECR LAND-VAL
SQ 1 1 158,471 28.96 0 28.96 28.96 4,589,320.00
PRIMARY SITE ADJ FACTOR(CA14) 1.0000

--------- APARTMENT INFORMATION ---------
USE MDL COUNT BED BATH HALF OTHER UNITS

GROSS LN CODE VALUE LAND-VAL
TOTAL ACRES 3.6380 TOTAL LAND-VALUE 4,589,320
TOT SIZE 3.6380 NBHD 611 ZONE 0 LOC 4 UTILITY 0 STREET 0
LAND ADJ ADJ FACTOR (CA11) 1.0000 ADJ FACTOR (AA44) 1.0000

MISC. IMPROVEMENTS 0
GROSS BUILDING SUMMARY
DESCR VALUE 0
---------- BUILDING PERMIT RECORD ---------
DATE NUMBER AMOUNT PURPOSE

INTERIOR / EXTERIOR INFORMATION

LINE	LNUM SCT	FRM	TO	LEVELS YRBLT	DIMENSION WDTH	LGTH	AREA	PERM	USE TYPE	HT	EXT CON	INT FIN	PTN	HT AC	PLB	LT	OTHER FEAT	RCN	BASE RCN	RCNICE PER SF	PHY	FUN	%RENT	% GD	%COMP

OTHER BUILDING & YARD IMPROVEMENTS

TYP	YEAR	EFF	SIZE	GRD	QN	MODS	C	F	%COMP	MA%	ADJFACT	VALUE
PA1	1975		145000	C	1		3	3		50	1.0000	322600
PAVING ASP												

TOTAL OBY VALUE 322,600

PARKING DATA

COVERED 0 UNCOVERED 0

TOTAL SQUARE FEET.		0
BASE R.C.N.		0
	.00	/SQFT
GRADE FACTOR		
ADJ R.C.N.		0
	.00	/SQFT
OVERALL % GOOD		
R.C.N.L.D.		
	.00	/SQFT
NO IDENT UNITS		
TOTAL R.C.N.L.D.		0
ADJUSTMENT FACTOR (CA31)		
TOTAL YARD IMP VALUE		322,600
OTHER:		0
TOTAL CARD VALUE		322,600
ECF % (CA11)		

PARCEL SUMMARY VALUES

PARCEL TOTAL			COST APPROACH			INCOME APPROACH		
LAND SIZE	158,471	LAND	4,589,320	28.96 /SQFT	LAND	0	.00 /SQFT	
BLDG SIZE	0	IMP	322,600	322,600.00 /SQFT	IMP	0	.00 /SQFT	
		TOTAL	4,911,920	4,911,920.00 /SQFT	TOTAL	0	.00 /SQFT	

ADJUSTED R.C.N.	0	.00 /SQFT
OVERALL % GOOD	0	
R.C.N.L.D.	0	.00 /SQFT
(INCLUDES PERCENT COMPLETE - SEE CARD DETAIL)		
BLDG ADJ FACTOR (CA31)	1.0000	
TOTAL YARD IMP VALUE	322,600	
TOTAL OTHER IMP VALUE	0	
TOTAL IMP VALUE	322,600	
ECF 0%		
ADJ TOTAL IMP VALUE	322,600	
IMP VALUE	322,600	ADJ TOTAL IMP VALUE * BLDG ADJ FACTORS (AA44) 1.0000 * (CA11) 1.0000
LAND VALUE	4,589,320	
TOTAL VALUE	4,911,920	

PREVIOUS YEARS VALUES		PREV YEARS APPRAISED VALUES	
LAND	BUILDING	LAND	BUILDING
4,159,860	285,500	4,159,860	285,500

CURRENT LAND	4,589,320	BUILDING	322,600	TOTAL	4,911,920
ASSESSED LAND	0	BUILDING	0	TOTAL	0
REVIEW CODE	1 COST APPROACH	REVIEW REASON	REV	REVAL VALUE UPD	
REVIEW DATE	31-JUL-03	REVIEWER ID			
ESTIMATE LAND	_____	BUILDING	_____	TOTAL	_____
REVIEW CODE	REVIEW REASON _____				
REVIEW DATE	_____	REVIEWER ID	_____		
REVIEW STATUS	7				
MAINTAINED ON	17-APR-04 STATUS				

THOMAS R. SUOZZI
COUNTY EXECUTIVE

DAVID M. ACKMAN, M.D., M.P.H.
COMMISSIONER

NASSAU COUNTY
DEPARTMENT OF HEALTH

240 OLD COUNTRY ROAD
MINEOLA, NEW YORK 11501-4250
FAX: 516 571-1475

Date: 11/18/05

Re: Nassau Coliseum
1255 Hempstead Tpke
Uniondale, NY

Dear: Ms. Schwarz

Your request for access to records of the Department of Health has been approved. Records will be made available during normal working hours at 240 Old Country Road, Mineola, and there will generally be a 25-cent per page fee for photo copying any Nassau County Records.*

The Nassau County Department of Health shall not be responsible for inaccuracies in electronic information due to programming and/or clerical error.

Listed below are the Bureau(s) which have searched their files for records pertaining to your request. Please call the Bureau(s) checked below and speak to the contact person to make an appointment to see the records:

	PROGRAMS	CONTACT PERSON	
	ENVIRONMENTAL PROTECTION		
☐	Water Supply Protection, Bottled Water, Realty Subdivisions, Private Sewage Disposal, Sewer Connections, Underground Injection Control, Source Water Assessment Program (SWAP)	Mr. Wayne Kempski or Mr. John Gaglione	571-3323
☐	Toxic and Hazardous Material, Tanks and Bulk Storage, Petroleum and Chemical Tanks, Air Emission Permits	Ms. Christine Pienkoski	571-1523
	ENVIRONMENTAL INVESTIGATION		
☐	Tobacco Smoking, Odors, Asbestos	Mr. Paul Hamann	571-4963
☐	Housing, Rodent Control, Heat, General Nuisance	Ms. Laurie Lutzker	571-3678
	ENVIRONMENTAL SANITATION		
☐	Food Protection	Mr. John Lynch	571-3680
☐	Summer Camps, Temporary Residences, Bathing Facilities	Mrs. Angela Petinelli	571-3680
☐	Radiological Health	Mr. Jim Selock	571-3313
☑	**No Records Noted**		

(*Fees may be higher if the actual cost of reproduction is higher or a different fee is prescribed by statute)

Yours truly,

Abby Liff
(516) 571-3571

APPLICATION FOR PUBLIC ACCESS TO ENVIRONMENTAL HEALTH RECORDS
NASSAU COUNTY DEPARTMENT OF HEALTH

TO: Records Access Officer
Nassau County Department of Health
240 Old Country Road
Mineola, New York 11501

Date of Request: December 28, 2004

Fax: (516) 571-1475, 571-3369

I Karen Schwarz
Print your name

Karen Schwarz
Signature

REPRESENTING Firm Freudenthal & Elkowitz Consulting Group, Inc Client _____

Your Mailing Address 368 Veterans Memorial Highway, Commack NY 11725

Phone Number 631-499-2222 Fax Number 631-499-5928

HEREBY APPLY TO INSPECT RECORDS FOR THE FOLLOWING ESTABLISHMENT:
Complete One Application For Each Establishment

Name Nassau Coliseum Previous Name N/A

Address 1255 Hempstead Turnpike, Uniondale, New York 11553
No., Street, Community *(We cannot identify parcels by their Section/Block/Lot)*

Is the Establishment still in business? Yes X or No ___.
If no, enter year closed _____ (This is necessary to retrieve the file.)

REASON FOR REQUEST: Information is necessary to complete Environmental Assessment for property

PLEASE CHECK THE BUREAUS WHOSE FILES YOU REQUEST TO BE SEARCHED:
Note: Requests for Lead Files MUST use separate Lead FOIL Form available from Records Access Officer

☒ **Bureau of Environmental Protection** has files concerning: Drinking Water; Private Wells; Ground Water Quality; Backflow Prevention Devices; Bottled Water; Realty Subdivision; Private Sewage Disposal; Sewer Extensions, Sewer Connections, Underground Injection Control; Petroleum & Chemical Tanks & Bulk Storage, including Spills and Leaks; Medical Wastes; Solid Wastes; Air Emission Permits; Road Salt Storage;

☒ **Bureau of Environmental Investigation** has files concerning: Environmental Investigations and Complaints including Odors; Asbestos; Tobacco Smoking; Housing; Rodent Control; Heat; General Nuisance; Animal Bites.

☐ **Bureau of Environmental Sanitation** has files concerning: Food Protection; Summer Camps; Temporary Residences; Bathing Facilities; Radiological Health; West Nile Virus and Mosquito Control.

FOR HEALTH DEPARTMENT USE ONLY BELOW THIS LINE

Signature Date	☐ Approved ☐ Denied

THOMAS R SUOZZI
COUNTY EXECUTIVE

THOMAS E. TILLEY
FIRE MARSHAL

NASSAU COUNTY FIRE COMMISSION
OFFICE OF THE FIRE MARSHAL
899 JERUSALEM AVENUE
P O BOX 128
UNIONDALE, NEW YORK 11553-0128
516-572-1000

Date 1-10-05

To Whom It May Concern:

Your request to review the attached location has been approved.
The inspection number for this location is: 17210

In order to review this record, you must contact

Fire Inspector FLOWER

at (516) 572-1047 to schedule an appointment.

You must bring the original Freedom of Information Form and this letter.

YOU MUST ALSO BRING A PHOTO ID.

INDUSTRIAL DIVISION

17210

THOMAS S. GULOTTA
COUNTY EXECUTIVE

JOHN R. SPECHT
FIRE MARSHAL

NASSAU COUNTY FIRE COMMISSION
OFFICE OF FIRE MARSHAL
899 JERUSALEM AVENUE
P.O. BOX 128
UNIONDALE, NEW YORK 11553
516-566-5200

APPLICATION FOR PUBLIC ACCESS TO RECORDS

TO: Records Access Officer

DATE: December 28, 2004

I hereby apply to inspect the following record: (Exact address including Number & Street)

History of storage tank registration (above and underground), documentation regarding the storage or handling of chemical or toxic materials and flammables, NCFM inspection reports, violations of NCFM codes for Nassau Coliseum
1255 Hempstead Turnpike
Uniondale, New York 11553

Reason for inspection: (Be specific)

Information is necessary to complete Environmental Assessment for property

Karen Schwarz
Name (Please Print)

Karen Schwarz
Signature

Freudenthal & Elkowitz
Consulting Group, Inc.
Representing (Business Name)

368 Veterans Memorial Highway
Mailing Address: Commack, New York 11725

Phone No.: (631) 499-2222

Pending Litigation YES ☐ NO ☒

--
Person or Firm your office represents

--
Address

FOR FIRE MARSHAL USE ONLY

- ☒ Approved
- ☐ Denied for reason(s) checked
- ☐ Confidential Disclosure - Part of Investigatory Files
- ☐ Unwarranted Invasion of Personal Privacy
- ☐ Record of which this Agency is Legal Custodian cannot be found
- ☐ Record is not Maintained by this Agency
- ☐ Exempted by Statute other than Freedom of Information Act
- ☐ Other

Signature

Fire Inspector
Title

01/04/05
Date

NOTICE: You have a right to appeal denial of this application to the head of this agency.
Fire Marshal _____, 899 Jerusalem Avenue, PO Box 128, Uniondale, NY 11553, who must fully explain his reasons for such denial in writing within seven days of receipt of an appeal

I hereby Appeal: _____ _____
Signature Date

FMACCESS[011401]

--

LID # 17210

"SOLUTIONS AT WORK"®

Fenley & Nicol Environmental Inc.

445 Brook Avenue, Deer Park, NY 11729 (631) 586-4900 • NYC (718) 204-4993 FAX (631) 586-4920

Date: 11/17/03 Job#: 0324049

Customer: Nassau Coliseum
Address: 1255 Hempstead Tpke.
Uniondale, NY 11553

ENTERED

Attn: Ben Bizzoja

Site Location: 1255 Hempstead Tpke.
Uniondale, NY

LID # 17210

The underground storage tank(s)/line(s) listed below have been tested in accordance to the Precision Test Criteria established by N.F.P.A. publication 329 The following is an outline of events that occurred:

DATE	TANK	METHOD	TYPE	RESULTS
11/17/03	1,000 gal Diesel UST	Horner	Ezy Chek II	System passed @ -.004 GPH
		Horner	Ezy Chek II	suction line passed @ -.0037 GPH
		Horner	Ezy Chek II	return line passed @ -.0018 GPH
		Horner	Ezy Chek II	

As required by law, we have forwarded a copy of this report to the following authorities where an "X" appears next to their name:

[X] Ms. Maritza Dubas
Nassau County Fire Marshal
899 Jerusalem Avenue – P O Box 128
Uniondale, NY 11553

Confirmation #: 6574930

[ ] Ms. Mary Henning
NYS DEC –Spills Dept
SUNY Building 40
Stony Brook, NY 11790

Spill #:

[ ] Ms. Robin Putnam
Nassau County Health Department
240 Old Country Road
B.L.R.M. – Room 500
Mineola, NY 11501

Confirmation #.

Tank Tester: Michael Sepe

OFFICE OF THE FIRE MARSHAL — NASSAU COUNTY FIRE PREVENTION ORDINANCE - ARTICLE III
APPLICATION FOR STORAGE OF FLAMMABLE/COMBUSTIBLE LIQUIDS REGISTRATION
FORM 2 - TANK REGISTRATION
SEE INSTRUCTION SHEET

FACILITY NAME: NASSAU COLISEUM (DIV. OF ENERGY - DEPT. OF GENERAL SERVICES)

FACILITY ADDRESS: UNIONDALE N.Y.

FOR OFFICE USE ONLY

DATE APP RECEIVED	FMKEY TR-1044
REVIEWED BY H	DATE REVIEWED 9-21-87
ACTION ☒ APRVD ☐ DISAPVD	☐ NOT REQ'D EXP DATE 10/31/92

ACTION	UNIT #	TANK #	UNIT TYPE	DESIGN CAPACITY (GALLONS)	CONST. MAT.	INT. PROT.	EXT. PROT.	PIPING	MATERIAL CURRENTLY STORED: TYPE	MATERIAL CURRENTLY STORED: FOR OFFICE USE DOT #	MATERIAL CURRENTLY STORED: TECHNICAL NAME OF CONTENTS	STATUS	INSTALL DATE	TEST DATE	LEAK DETEC.	SEC. CON.	DISP. METHOD	FILL	DATE LAST USED
3	1	7	1000	1	2	2	1	3-1993-01	DIESEL	2	0000	6-30-87	5	5	2	1	6-30-87		
2	2	7	1000	2	2	3	4	3-1993-01	DIESEL	P	9-1-87	9-2-87	3	4	2	1	218730		

SEZ 002686

Data Chart for Tank System Tightness Test

petro Tite
TANK TESTER

PLEASE PRINT

1. OWNER Property ☑ Tank(s) ☐

Name	Address	Representative	Telephone
Nassau Coliseum	Hempstead TPKE Uniondale New York		794-9300
		Bob Leithen	

2. OPERATOR

Name	Address	Telephone
Nassau Coliseum	Hempstead TPKE Uniondale, New York	794-9300

3. REASON FOR TEST (Explain Fully)

Company request

4. WHO REQUESTED TEST AND WHEN

Name	Title	Company or Affiliation	Date
Bob Leithen		Nassau Coliseum	6/29/87

Address: Hempstead TPKE Uniondale, New York — Telephone:

5. WHO IS PAYING FOR THIS TEST?

Company Agency or Individual: Nassau Coliseum — Person Authorizing: Bob Leithen — Title: — Telephone:

Billing Address: Hempstead TPKE — City: Uniondale, New York — State: — Zip:

Attention of: Bob Leithen — Order No.: — Other Instructions:

6. TANK(S) INVOLVED

Identify by Direction	Capacity	Brand/Supplier	Grade	Approx Age	Steel/Fiberglass
1	1000		#2 F/O		Steel

7. INSTALLATION DATA

Location	Cover	Fills	Vents	Siphones	Pumps
1	Concrete & Asphalt	2"	1½"	N/A	N/A
North inside driveway Rear of station, etc	Concrete, Black Top Earth, etc.	Size Titefill make, Drop tubes Remote Fills	Size, Manifolded	Which tanks?	Suction, Remote, Make if known

8. UNDERGROUND WATER

Depth to the Water table 25' " — Is the water over the tank? ☐ Yes ☒ No

9. FILL-UP ARRANGEMENTS

Tanks to be filled Risk hr 6/30/87 Date — Arranged by Bob Leithen — Name — 794-9300 Telephone

Extra product to top off and run TSTT — How and who to provide? — Consider NO Lead

Terminal or other contact for notice or inquiry — Company — Name — Telephone

10. CONTRACTOR, MECHANICS, any other contractor involved

Larry E Tyree Corp.
208 Route 109
Farmingdale, New York 11735

11. OTHER INFORMATION OR REMARKS

Additional information on any items above. Officials or others to be advised when testing is in progress or completed. Visitors or observers present during test etc

12. TEST RESULTS

Tests were made on the above tank systems in accordance with test procedures prescribed for petro Tite as detailed on attached test charts with results as follows:

Tank Identification	Tight	Leakage Indicated	Date Tested
1	NO	-.296	6/30/87

13. CERTIFICATION

This is to certify that these tank systems were tested on the date(s) shown. Those indicated as "Tight" meet the criteria established by the National Fire Protection Association Pamphlet 329

6/30/87 — Date

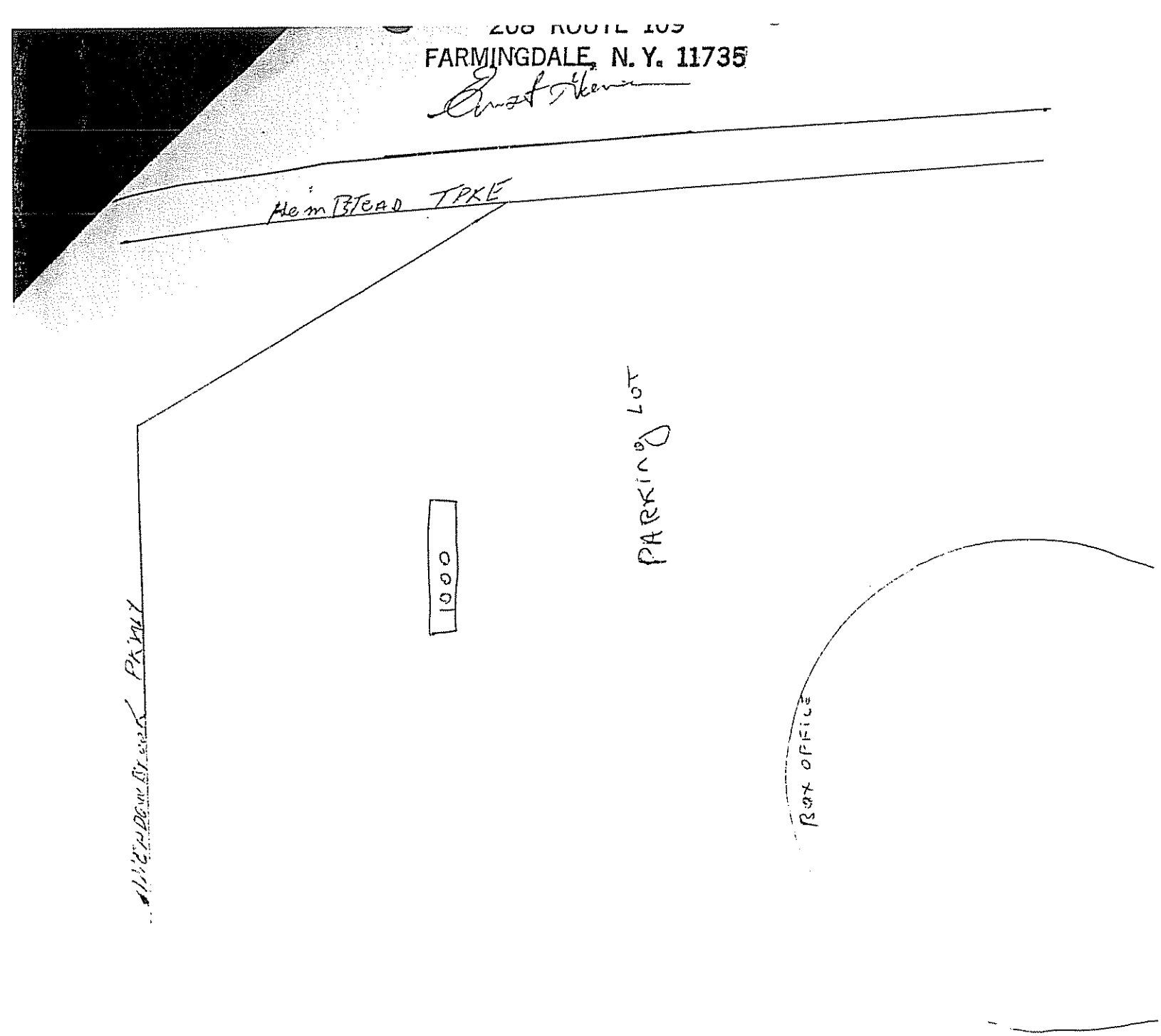
757 — Serial No. of Thermal Sensor

Lou Liggiani
JJ — Technicians

Larry E Tyree Corp. — Testing Contractor or Company — By: — Signature

208 Route 109 Farmingdale, New York 11735 — Address

208 ROUTE 109
FARMINGDALE, N.Y. 11735



FMIGS75 00056 PERMIT NO. 01044

STATE OF NEW YORK
COUNTY OF NASSAU
OFFICE OF FIRE MARSHAL

TR FLAMMABLE/COMBUSTIBLE LIQUID STORAGE TANK REGISTRATION

LOCATION: NASSAU COLISEUM HEMPSTEAD TPK UNIONDALE, NY 11553

ISSUED TO: NAME NASSAU COLISEUM DATE ISSUED: 09/29/87
ADDRESS HEMPSTEAD TPK
UNIONDALE, NY 11553

TANK	SIZE	PRODUCT	DATE INSTALLED	DATE TESTED	CONSTRUCTION
HB01	1K	3 01993 01	01/01/73	06/01/87	STL
HC01	1K	3 01993 01	09/01/87	09/02/87	SFG

****

POST IN A CONSPICUOUS LOCATION

William J. Rhodes

ASSISTANT FIRE MARSHAL

LOCATION ID 17210

PERMIT NO TR 000003948

COPY

STATE OF NEW YORK
COUNTY OF NASSAU
OFFICE OF FIRE MARSHAL
F/C TANK REGISTRATION

LOCATION: NC NASSAU COLISEUM, 1255 HEMPSTEAD TPKE, UNIONDALE, NY 11553

ISSUED TO: NAME NASSAU VETERANS MEMORIAL

ADDRESS 1255 HEMPSTEAD TPKE
UNIONDALE, NY 11553-1200

EFFECTIVE DATE: 05/05/2003

EXPIRATION DATE 10/31/2007

TANK ID	SIZE	PRODUCT	DATE INSTALLED	DATE TESTED	CONSTRUCTION
25205	1000	3013302	09/01/1987	09/25/1998	SFG

END OF LISTING

JUNE 10, 2003

DATE

Stephen Ward

ASSISTANT FIRE MARSHAL

MUST BE POSTED IN A CONSPICUOUS LOCATION

Newsday

IT HAPPENED ON LONG ISLAND

A DAILY FEATURE PRODUCED BY THE NEWSDAY MARKETING DEPARTMENT.

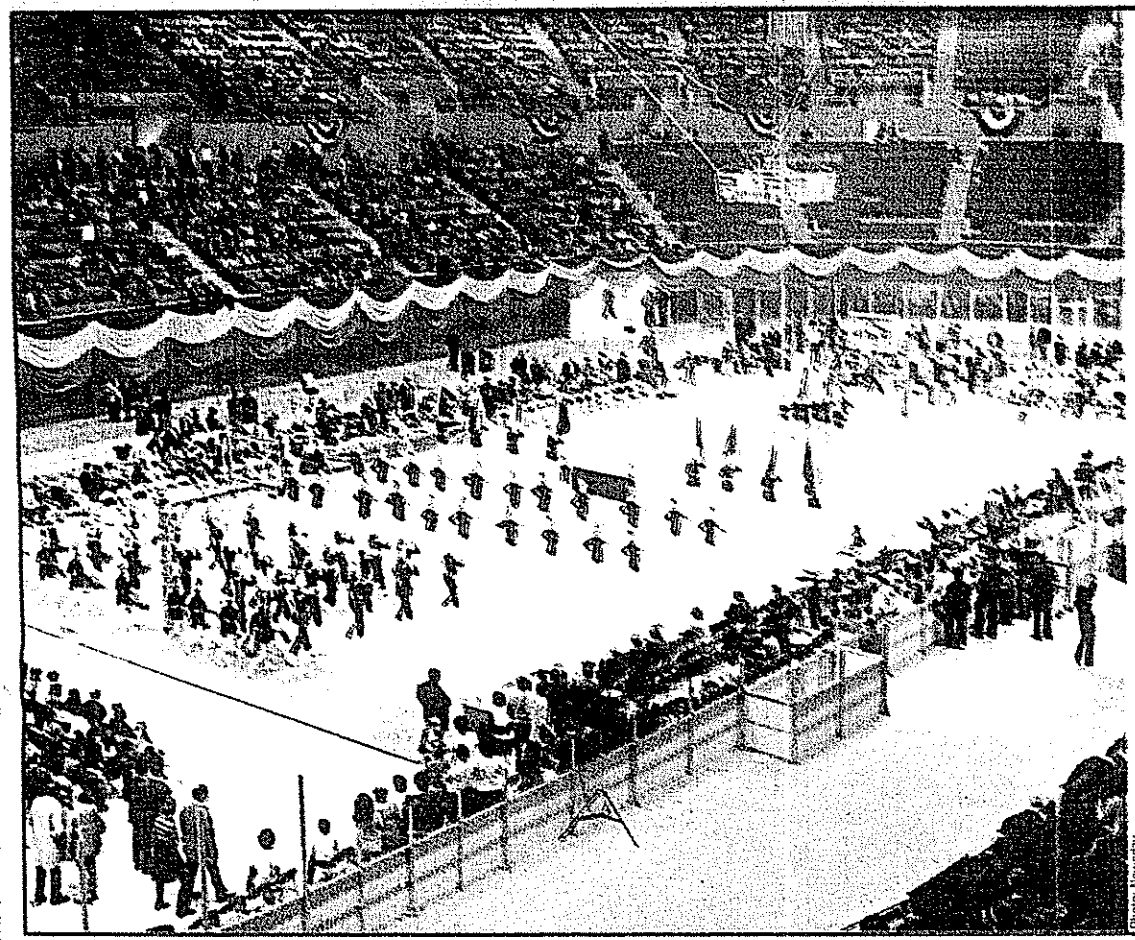


Photo: Newsday

1972: Nassau Veterans Memorial Coliseum Opens

In March 1968, the Nassau County Board of Supervisors approved plans for an arena that could accommodate major league sporting events, concerts, entertainment spectacles, trade shows, and conventions. On May 29, 1972, the Nassau Veterans Memorial Coliseum officially opened. It was dedicated to American veterans who had died while serving their country. The $28 million facility, built in Uniondale on land that was previously part of the Mitchel Field Air Force Base, offered seating with unobstructed views for up to 17,000 spectators and parking for 6,000 cars and 40 buses. Its arena floor and an adjacent underground exhibition hall provided more than 100,000 square feet of exhibition space. The Coliseum had unofficially opened on February 11, 1972 with a basketball game between the Nets and the Pittsburgh Condors. The Coliseum's February 11, 1972 opening is pictured here. --Cynthia Blair

TOMORROW: BRIAN SETZER FORMS THE STRAY CATS

Reduce Your Energy Costs... By Design

Introducing LIPA's Smart Building Design Practices

Planning new construction or major renovations?

New York State Department of Environmental Conservation

Bldg. 40, SUNY, Stony Brook, NY 11794

(516) 751-7900 or (516) 751-7725

Henry G. Williams
Commissioner

June 18, 1987

CERTIFIED - RETURN RECEIPT REQUESTED

Nassau Coliseum
Hempstead Turnpike
Uniondale, NY 11553

Re: Oil Spill No. 87-2169

Gentlemen:

This office has been informed by Tyree Brothers Environmental Services that one 1,000 gallon underground diesel fuel tank failed a Petrotite systems test. In accordance with Article 12 of the New York State Navigation Law, I must determine if there has been any harm to the groundwaters of the State. In order for me to make this determination, you have three options:

1. Prove that it was not a leaking tank by removing all the piping from the tank and separately Petrotite test the tank. If the tank passes the Petrotite test, it is a piping leak. The tank may then be abandoned or the piping can be repaired, attached to the tank, and the system Petrotite tested.

2. Excavate and remove the tank in the presence of a representative from this office so that an inspection of the tank and the soil can be made. If the tank is sound, and there is no evidence of product loss, nothing further need be done. If there is a problem, proceed as in 3 below.

3. Abandon the tank in-place and install several four(4) inch diameter PVC site wells extending ten(10) feet into the groundwater with a screen length of twenty(20) feet, with slot size of .020 inches. The exact location and number of wells will be determined by a representative from this office. These wells will be checked for a period of twelve months by New York State, and if there is no evidence of product for that period, the spill will be removed from our listing. If product appears, recovery must begin immediately.

Please call Chris O'Neill or myself at 751-7900 or 751-7725 and let me know which option you will select to resolve this problem. If no response is received from you by July 2, 1987, this office will proceed with the installation of site wells and will seek reimbursement from you in accordance with Article 12 of the New York State Navigation Law.

Very truly yours,

John A. Licata, P.E.
Regional Oil Spill Engineer

JAL:pn
CC: S. Silvers, NCHD
D. Bartow, NCFM ✓

THOMAS S. GULOTTA
COUNTY EXECUTIVE

JOSEPH G. BOSLET JR
FIRE MARSHAL

NASSAU COUNTY FIRE COMMISSION
OFFICE OF FIRE MARSHAL
899 JERUSALEM AVENUE
P.O. BOX 129
UNIONDALE, NEW YORK 1153

TEST RESULTS

FMKey # GS75-56

PLType/ # _____

Test Date: 1/11/17

Business Name: NASSAU [illegible]

Business Street: [illegible]
No Street Intersection

Business Village: UNIONDALE NY Zip: _____ Phone Number: 774-9300
BOB LEIGHTON

Permittee Name: _____

Permittee Street: _____
No Street Intersection

Permittee Village: _____ Zip: _____ Phone Number: _____

Type of Test: _____

INDICATE SIPHON TANK

TANK #	UNIT TYPE	CONTENTS	CONST.	NEW/OLD	SIZE	P/F	RESULT
1		DIESEL	STEEL	OLD	1000	F	-.511 GPH

Comments: _____

Testing Firm: _____ Performed By: _____

COF # : _____ COF Expiration Date: _____

Inspector: _____ Shield # : _____

[illegible] WHITE [illegible] YELLOW - T[illegible] BLUE - Owner

Data Chart for Tank System Tightness Test

petro tite
TANK TESTER

PLEASE PRINT

1 OWNER Property [X] Tank(s) [Y]

Name: Nassau Collision | Address: Uniondale | Representative: Francis | Telephone: 794-9300

Name: | Address: | Representative: Francis | Telephone: 794-9300

2. OPERATOR

Name: Nassau Collision | Address: Uniondale New York | Telephone: 794-9300

3. REASON FOR TEST (Explain Fully)

Computer report

4 WHO REQUESTED TEST AND WHEN

Name: Francis | Title: Uniondale New York | Company or Affiliation: Nassau Collision | Date: 8/16/87

Address: | Telephone:

5 WHO IS PAYING FOR THIS TEST?

Company, Agency or Individual: Nassau Collision | Person Authorizing: Francis | Title: | Telephone: 794-930

Billing Address: Uniondale New York | City: | State: | Zip:

Attention of: Francis | Order No: | Other Instructions:

6. TANK(S) INVOLVED

Identify by Direction	Capacity	Brand/Supplier	Grade	Approx Age	Steel/Fiberglass
1	1000		Diesel		Steel

7. INSTALLATION DATA

Location	Cover	Fills	Vents	Siphones	Pumps
1	Concrete + Asphalt	2"	1½"	n/a	n/a
North inside driveway Rear of station, etc	Concrete, Black Top Earth etc	Size Tiefill make Drop tubes Remote Fills	Size, Manifolded	Which tanks?	Suction Remote Make if known

8 UNDERGROUND WATER

Depth to the Water table _____

Is the water over the tank? [ ] Yes [X] No

9 FILL-UP ARRANGEMENTS

Tanks to be filled Asap hr 8/16/87 Date | Arranged by Francis Name | 794-930 Telephone

Extra product to top off and run TSTT | How and who to provide? | Consider NO Lead

Terminal or other contact for notice or inquiry _____ Company | Name | Telephone

10 CONTRACTOR, MECHANICS, any other contractor involved

Leak Test Co Inc
105 Route 109
Farmingdale, New York 11735

11 OTHER INFORMATION OR REMARKS

Additional information on any items above Officials or others to be advised when testing is in progress or completed Visitors or observers present during test etc

12 TEST RESULTS

Tests were made on the above tank systems in accordance with test procedures prescribed for petro tite as detailed on attached test charts with results as follows:

Tank Identification	Tight	Leakage Indicated	Date Tested
1	No	Test	8/16/87

13 CERTIFICATION

Date

Serial No of Thermal Sensor

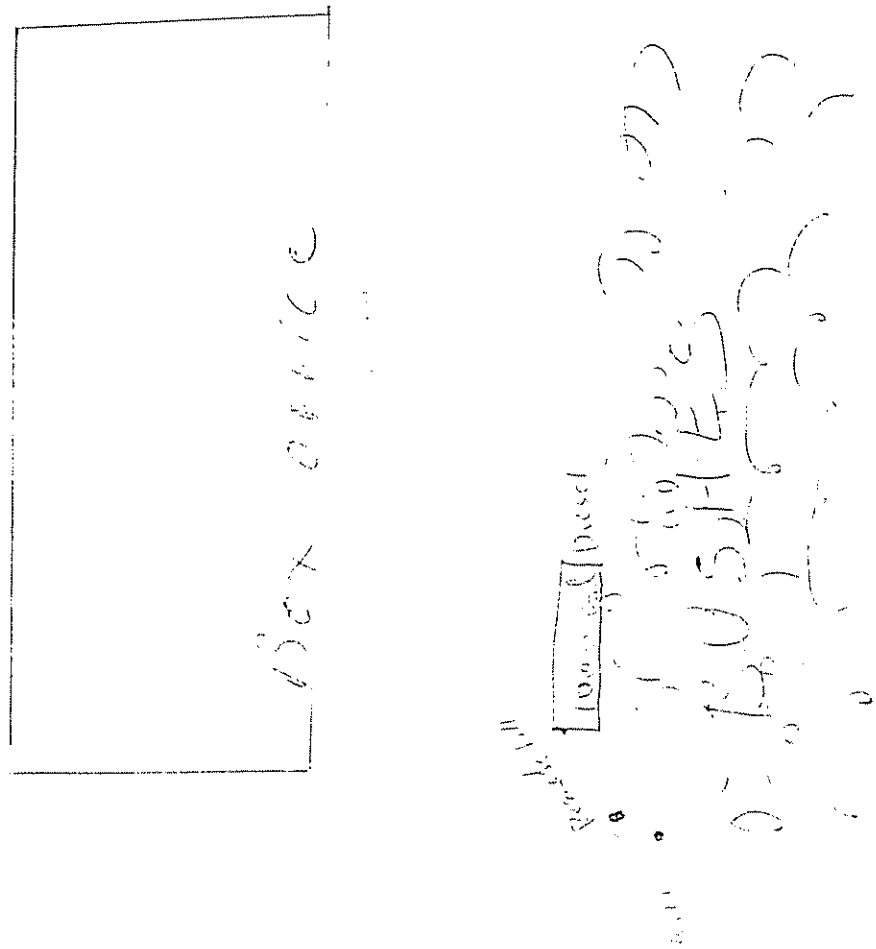
This is to certify that these tank systems were tested on the date(s) shown Those indicated as Tight meet the criteria established by the National Fire Protection Association Pamphlet 329

Technicians

Testing Contractor or Company | By | Certificate

Address: 105 Route 109 Farmingdale, New York 11735

LARRY E. TYREE CO. INC.
208 ROUTE 109
FARMINGDALE, N. Y. 11735



New York State Department of Environmental Conservation
Bldg. 40, SUNY, Stony Brook, NY 11794

(516) 751-7900 or (516) 751-7725

Henry G. Williams
Commissioner

June 5, 1987

CERTIFIED - RETURN RECEIPT REQUESTED

Mr. Robert Laighton
Nassau Coliseum
Hempstead Turnpike
Uniondale, NY 11553

65-75-56

Re: Oil Spill No. 87-1759

Dear Mr. Laighton:

This office has been informed by Fenley and Nicol Company that one 1,000 gallon underground diesel fuel tank failed a Petrotite systems test. In accordance with Article 12 of the New York State Navigation Law, I must determine if there has been any harm to the groundwaters of the State. In order for me to make this determination, you have three options:

1. Prove that it was not a leaking tank by removing all the piping from the tank and separately Petrotite test the tank. If the tank passes the Petrotite test, it is a piping leak. The tank may then be abandoned or the piping can be repaired, attached to the tank, and the system Petrotite tested.

2. Excavate and remove the tank in the presence of a representative from this office so that an inspection of the tank and the soil can be made. If the tank is sound, and there is no evidence of product loss, nothing further need be done. If there is a problem, proceed as in 3 below.

3. Abandon the tank in-place and install several four(4) inch diameter PVC site wells extending ten(10) feet into the groundwater with a screen length of twenty(20) feet, with slot size of .020 inches. The exact location and number of wells will be determined by a representative from this office. These wells will be checked for a period of twelve months by New York State, and if there is no evidence of product for that period, the spill will be removed from our listing. If product appears, recovery must begin immediately.

Please call Chris O'Neill or myself at 751-7900 or 751-7725 and let me know which option you will select to resolve this problem. If no response is received from you by June 19, 1987, this office will proceed with the installation of site wells and will seek reimbursement from you in accordance with Article 12 of the New York State Navigation Law.

Very truly yours,

John A. Licata, P.E.
Regional Oil Spill Engineer

JAL:pn
CC: D. Bartow, NCFM
S. Silvers, NCHD

Fenley & Nicol Co. Inc.

445 Brook Avenue Deer Park New York 11729 (516) 586-4900 • (718) 204-4993 Gasoline Pump & Tank • Environmental Services

NOTIFICATION OF TANK TESTING

Date: 6/2/87

For: NASSAU Coliseum
Hempstead Turke
Uniondale, NY

GS-75-56

Gentlemen:

Please be advised that the following tanks at the subject premise will be tested by our firm:

ID# IDENTIFICATION	RESULT	DATE
In Diesel Generator System	Tank Tight	6/1/87

Sincerely,

Scott Schultz

cc: (X) Nassau County Fire Marshal

X Mr. John Licata
New York State D.E.C.

Mr. John Decker
Nassau County Health Dept.

X Customer

LOCATION ID **17210**

PERMIT NO. **TR 000003948**

STATE OF NEW YORK
COUNTY OF NASSAU
OFFICE OF FIRE MARSHAL

FILE COPY

F/C TANK REGISTRATION

Amendment

LOCATION: NASSAU COLISEUM, 1255 HEMPSTEAD TPKE, UNIONDALE, NY 11553

ISSUED TO: NAME **NASSAU VETERANS MEMORIAL**

ADDRESS **1255 HEMPSTEAD TURNPIKE**
UNIONDALE, NY 115531200

EFFECTIVE DATE: **01/03/1998**

EXPIRATION DATE: **10/31/2002**

TANK ID	SIZE	PRODUCT	DATE INSTALLED	DATE TESTED	CONSTRUCTION
25205	1000	30199302	09/01/1987	09/25/1998	SFG

********** END OF LISTING **********

NOVEMBER 02, 1998

DATE

ASSISTANT FIRE MARSHAL

MUST BE POSTED IN A CONSPICUOUS LOCATION

Data Chart for Tank System Tightness Test

petro tite
TANK TESTER

PLEASE PRINT

1. OWNER Property ☑ Tank(s) ☐	Nassau Coliseum, Hempstead Tpk. Uniondale			Representative Louises		Telephone
	Name	Address		Representative		Telephone
2. OPERATOR	Name	Address				Telephone
3. REASON FOR TEST (Explain Fully)						
4. WHO REQUESTED TEST AND WHEN	Name	Title	Company or Affiliation			Date
		Address				Telephone
5. WHO IS PAYING FOR THIS TEST?	Company, Agency or Individual	Person Authorizing		Title		Telephone
	Billing Address	City		State		Zip
	Attention of:	Order No.	Other Instructions			

6. TANK(S) INVOLVED

Identify by Direction	Capacity	Brand/Supplier	Grade	Approx. Age	Steel/Fiberglass
	1,000 gal		diesel	17 yrs	steel

7. INSTALLATION DATA

Location (North Inside Dispenser, Rear of station, etc.)	Cover (Concrete, Black Top, Earth, etc.)	Fills (Size, Tilefill mats, Drop tubes, Remote Fills)	Vents (Size, Manifolded)	Siphoners (Which tanks?)	Pumps (Suction, Remote, Make if known)
South East corner of building	Earth (uncovered	2"	1"		1"

8. UNDERGROUND WATER

Depth to the Water table _____" Is the water over the tank? ☐ Yes ☑ No

9. FILL-UP ARRANGEMENTS

Tanks to be filled _____ hr. _____ Date Arranged by _____ (Name) (Telephone)

Extra product to "top off" and run TSTT. How and who to provide? Consider HO Lead.

Terminal or other contact for notice or inquiry _____ (Company) (Name) (Telephone)

10. CONTRACTOR, MECHANICS, any other contractor involved

Fenley & Nicol Mark Kissinger

11. OTHER INFORMATION OR REMARKS

Additional information on any items above. Officials or others to be advised when testing is in progress or completed. Visitors or observers present during test etc.

12. TEST RESULTS

Tests were made on the above tank systems in accordance with test procedures prescribed for petro tite (tank name) as detailed on attached test charts with results as follows:

Tank Identification	Tight	Leakage Indicated	Date Tested
1m diesel		failed -.068	6/1/87

13. CERTIFICATION

6-1-87
Date

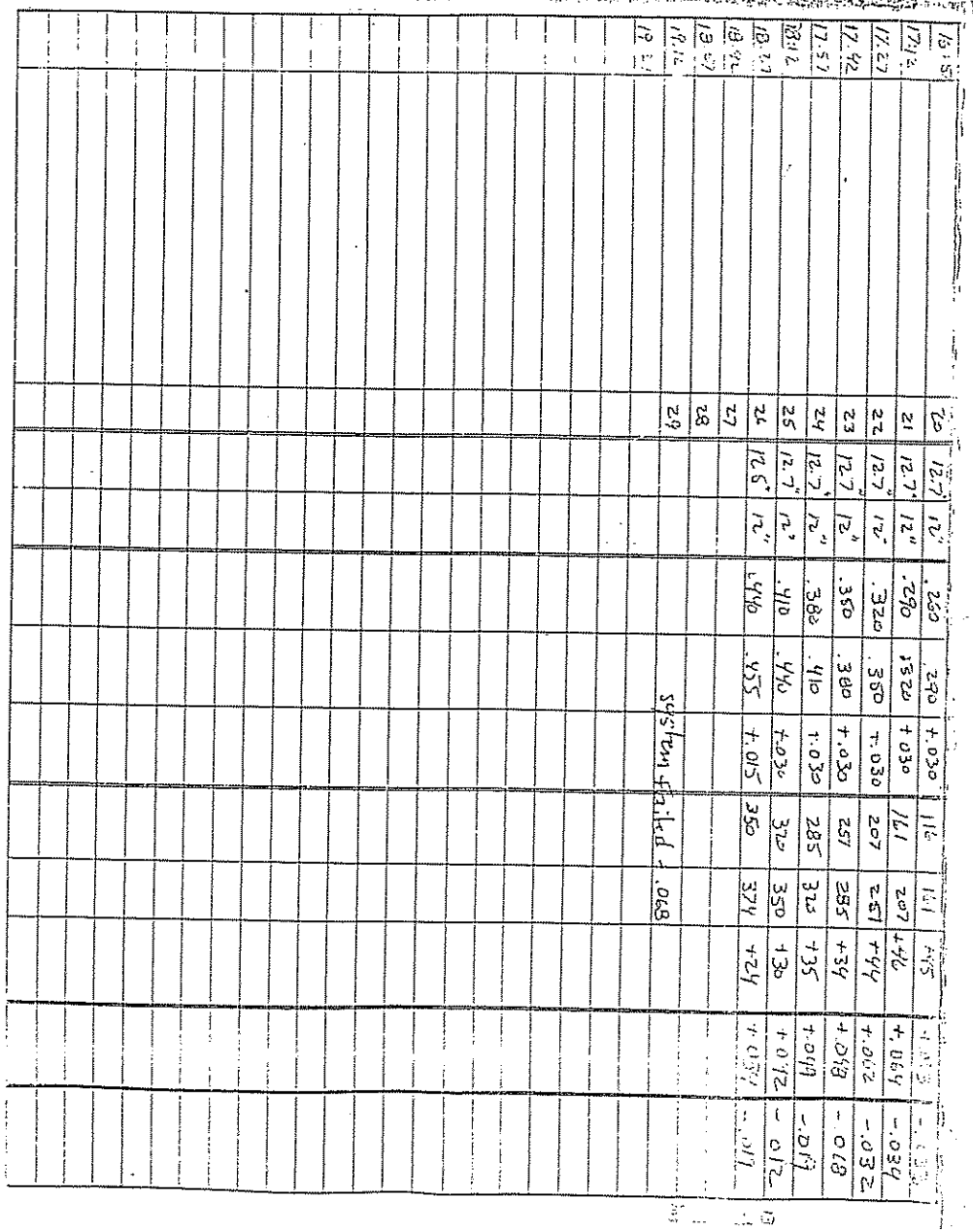
Serial No. of Thermal

This is to certify that these tank systems were tested on the date(s) shown. Those indicated as "Tight" meet the criteria established by the National Fire Protection Association Pamphlet 329.

Mark Kissinger
Technician

FENLEY & NICOL CO., INC.
445 BROOK AVENUE,
DEER PARK, NEW YORK 11729

| | | | | | |



Data Chart for Tank System Tightness Test

petro tite
TANK TESTER

PLEASE PRINT

1. OWNER Property ☑ Tank(s) ☐
Name: Nassau Coliseum — Address: Hempstead Tpk. Uniondale — Representative: Frances — Telephone:
Name — Address — Representative — Telephone:

2. OPERATOR
Name — Address — Telephone:

3. REASON FOR TEST (Explain Fully)

4. WHO REQUESTED TEST AND WHEN
Name — Title — Company or Affiliation — Date
Address — Telephone:

5. WHO IS PAYING FOR THIS TEST?
Company, Agency or Individual — Person Authorizing — Title — Telephone
Billing Address — City — State — Zip
Attention of: — Order No. — Other Instructions

6. TANK(S) INVOLVED

Identify by Direction	Capacity	Brand/Supplier	Grade	Approx. Age	Steel/Fiberglass
	1,000 gal		diesel	17 yrs	steel

7. INSTALLATION DATA

Location (North, South, Dispenser, Rear of station, etc.)	Cover (Concrete, Black Top, Earth, etc.)	Fills (Size, Tank# make, Drop tubes, Remote Fills)	Vents (Size, Manifolded)	Siphones (Which tanks?)	Pumps (Suction, Remote, Make if known)
South East Corner of Entry	Earth (uncovered	2"	1"		1"

8. UNDERGROUND WATER
Depth to the Water table _____" — Is the water over the tank? ☐ Yes ☑ No

9. FILL-UP ARRANGEMENTS
Tanks to be filled _____ hr. _____ Date — Arranged by _____ Name — Telephone
Extra product to "top off" and run TSTT. How and who to provide? Consider HO Lead.
Terminal or other contact for notice or inquiry _____ Company — Name — Telephone

10. CONTRACTOR, MECHANICS, any other contractor involved
Fenley & Nicol — Mark Kissinger

11. OTHER INFORMATION OR REMARKS
Additional information on any items above. Officials or others to be advised when testing is in progress or completed. Visitors or observers present during test etc.

12. TEST RESULTS
Tests were made on the above tank systems in accordance with test procedures prescribed for petro tite as detailed on attached test charts with results as follows:

Tank Identification	Tight	Leakage Indicated	Date Tested
1 in diesel		failed - .068	6/1/87

13. CERTIFICATION
6-1-87 — Date
Signature of Tester — Mark Kissinger — Technician

This is to certify that these tank systems were tested on the date(s) shown. Those indicated as "Tight" meet the criteria established by the National Fire Protection Association Pamphlet 329.

FENLEY & NICOL CO., INC.
415 BROCK AVENUE
NORTH BABYLON, NEW YORK 11703

14. NASSAU Coliseum — Hempstead Tpke. — Uniondale — NY — 6/1/87
Name of Supplier, Owner or Dealer — Address (No. and Street(s)) — City — State — Date of Test

15 TANK TO TEST
South/East Corner of building
Identity by position
Diesel (Generator)
Brand and Grade

16 CAPACITY
Nominal Capacity 1000 Gallons
By most accurate capacity chart available 1002 Gallons
Is there doubt as to True Capacity? ☐
See Section "DETERMINING TANK CAPACITY"
From
☐ Station Ch. 1
☐ Tank Manufacturer's Chart
☐ Company Engineering Data
☐ Charts supplied with petro tite
☐ Other

17 FILL-UP FOR TEST
Stick Water Bottom before Fill-up 0' to ½ in. — 0 gallons Gallons
Inventory — Stick Readings to ½ in. 48" — Gallons — Total Gallons as Reading 1002
0 gall. water
+ 20 ½ off +7.0
1072
Fill up STICK BEFORE AND AFTER EACH COMPARTMENT DROP OR EACH METERED DELIVERY QUANTITY
351 @ 89° = 32.941 = 330 = .00044950
Tank Diameter 48
Product in full tank (up to fill pipe)

18 SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK
See manual sections applicable. Check below and record procedure in log (26)
☐ Water in tank ☐ High water table in tank excavation ☐ Line(s) being tested with LVLLT
VAPOR RECOVERY SYSTEM
☐ Stage I ☐ Stage II

19 TANK MEASUREMENTS FOR TSTT ASSEMBLY
Bottom of tank to Grade* 84"
Add 30" for 4" L
Add 24" for 3" L or air seal
Total tubing to assemble. Approximate 132"

20 EXTENSION HOSE SETTING
Tank top to grade* 36"
Extend hose on suction tube 6" or more below tank top

*If Fill pipe extends above grade, use top of fill.

21 TEMPERATURE/VOLUME FACTOR (a) TO TEST THIS TANK
Is Today Warmer? ( ) Colder? ( ) ___°F Product in Tank ___°F Fill up Product on Truck ___°F Correction Change (+ or −)
22 Thermal Sensor reading after circulation 11975 (digits) 58/59 (liters)
23 Digits per °F in range of expected change 318 (digits)
24 1072 (total quantity in full tank (16 or 17)) × .00044950 (coefficient of expansion for involved product) = .459389 (volume change in this tank per °F) gallons
25 .459389 (volume change per °F (24)) ÷ 318 (Digits per °F in test Range (23)) = .0014446 = .0014 (Volume change per digit. Compute to 4 decimal places.) This is total factor (a)

26 LOG OF TEST PROCEDURES		30 HYDROSTATIC PRESSURE CONTROL		31 VOLUME MEASUREMENTS (V) RECORD TO .001 GAL			34 TEMPERATURE COMPENSATION USE FACTOR (a)			38 NET VOLUME CHANGES EACH READING	39 ACCUMULATED CHANGE
27 DATE / TIME (24 hr.)	28 Record details of setting up and running test. (Use full length of line if needed.)	29 Reading No.	Standpipe Level in Inches: Beginning of Reading	Standpipe Level in Inches: Level to which Restored	32 Product in Graduate: Before Reading	32 Product in Graduate: After Reading	Product Replaced (−) Product Recovered (+)	35 Thermal Sensor Reading	36. Change Higher (+) Lower (−) (c)	37. Computation (c) × (a) = Expansion (+) Contraction (−)	Temperature Adjustment: Volume Above Expansion (+) or Contraction (−) = #32(a) − #31(b)	If high limit prohibits Change per Hour enter actual
8:30	Arrived at site checked in with											
office at job site. Tank had no												
access to test through. Cut												
2" remote fill and installed												
tee replacing elbo to be able to												
test through. Setup Re-piped												
saving on remote fill, set up												
test equipment and began filling												
up system.												
11:55	Pump primed and running											
12:12	First sensor reading	1	42"		.600			11976				
12:27		2	40"	42"	.600	.500	−.100	975	12070	+95	+.133	−.233
12:42		3	40.5"	42"	.500	.430	−.070	070	195	+125	+.175	−.345
12:57		4	40.7"	42"	.635	.565	−.070	195	297	+102	+.143	−.513
13:13		5	40.5"	42"	.565	.495	−.070	297	378	+81	+.113	−.183
13:15	dropped to low level		12"		.495							
13:27		6	11.6"	12"	.495	.470	−.025	378	461	+83	+.116	−.141
13:42		7	11.2"	12"	.470	.430	−.040	461	514	+53	+.074	−.114
13:57		8	11.1"	12"	.430	.390	−.040	514	571	+57	+.080	−.120
14:12		9	11.2"	12"	.390	.355	−.035	571	620	+49	+.069	−.104
14:27		10	11.2"	12"	.365	.315	−.040	620	669	+49	+.069	−.109
14:42		11	11.4"	12"	.315	.290	−.025	669	724	+55	+.077	−.102
14:57		12	11.5"	12"	.290	.270	−.020	724	775	+51	+.071	−.091
15:12		13	11.4"	12"	.270	.245	−.025	775	816	+42	+.059	−.084
15:27		14	11.4"	12"	.245	.220	−.025	816	864	+48	+.067	−.092
15:42		16	11.8"	12"	.220	.215	−.005	864	916	+52	+.073	−.078
15:57		16	12.1"	12"	.215	.220	+.005	916	968	+52	+.073	−.068
16:12		17	12.2"	12"	.220	.230	+.010	968	13020	+52	+.073	−.058
16:27		18	12.2"	12"	.230	.240	+.010	020	068	+48	+.067	−.057
16:42		19	12.4"	12"	.240	.260	+.020	068	116	+48	+.067	−.047
16:57		20	12.7	12"		.290	+.030	116	161	+45	+.063	−.033
	Turn over											

petro tite TANK TESTER
FENLEY & NICOL CO., INC. 455 ERICKA AVENUE DEER PARK, NEW YORK 11729 516 586-6000

14. NASSAU Coliseum (Name of Supplier, Owner or Dealer) | Hempstead Tpke. (Address/No. and Street) | Uniondale (City) | NY (State) | 6/1/87 (Date of Test)

15. TANK TO TEST
South/East Corner of building (Identity by position)
Diesel (Generator) (Brand and Grade)

16. CAPACITY
Nominal Capacity 1000 Gallons
By most accurate capacity chart available 1002 Gallons
Is there doubt as to True Capacity? ☐ See Section "DETERMINING TANK CAPACITY"
From: ☐ Station Chart ☐ Tank Manufacturer's Chart ☐ Company Engineering Data ☐ Charts supplied with petro tite ☐ Other

17. FILL-UP FOR TEST

		Stick Readings to ⅛ in.	Gallons	Total Gallons ea. Reading
Stick Water Bottom before Fill-up 0" to ⅛ in.	0 gallons Gallons			
Inventory		48"		1002
			0 gall. water	
			+ 20 Topoff	+20
				1022

Fill up STICK BEFORE AND AFTER EACH COMPARTMENT DROP OR EACH METERED DELIVERY QUANTITY
351 @ 89° = 32.941 = 330 = .00044950
Tank Diameter 48 Product in full tank (up to fill pipe)

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK
See manual sections applicable. Check below and record procedure in log (26).
☐ Water in tank ☐ High water table in tank excavation ☐ Line(s) being tested with LVLLT

VAPOR RECOVERY SYSTEM
☐ Stage I ☐ Stage II

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY
Bottom of tank to Grade* 84"
Add 30" for 4" L
Add 24" for 3" L or air seal
Total tubing to assemble Approximate 132"

20. EXTENSION HOSE SETTING
Tank top to grade* 36"
Extend hose on suction tube 6" or more below tank top
*If Fill pipe extends above grade, use top of fill.

21. TEMPERATURE/VOLUME FACTOR (a) TO TEST THIS TANK
Is Today Warmer? ( ) Colder? ( ) ___° F Product in Tank ___° F Fill-up Product on Truck ___° F Expected Change (+ or −)

22. Thermal-Sensor reading after circulation 11975 digits 58/59 Nearest °F
23. Digits per °F in range of expected change 318 digits
24. 1022 (total quantity in full tank (16 or 17)) × .00044950 (coefficient of expansion for involved product) = .459389 gallons (volume change in this tank per °F)
25. .459389 (volume change per °F (24)) ÷ 318 (Digits per °F in test Range (23)) = .0014446 = .0014 (Volume change per digit. Compute to 4 decimal places. This is test factor (a))

26. LOG OF TEST PROCEDURES			30. HYDROSTATIC PRESSURE CONTROL		31. VOLUME MEASUREMENTS (V) RECORD TO .001 CU.			34. TEMPERATURE COMPENSATION USE FACTOR (a)			38. NET VOLUME CHANGES EACH READING	39. ACCUMULATED CHANGE
27. DATE / TIME (24 hr.)	28. Record details of setting up and running test. (Use full length of line if needed.)	29. Reading No.	Standpipe Level in Inches: Beginning of Reading	Level to which Restored	32. Product in Graduate: Before Reading	After Reading	Product Replaced (−) / Product Recovered (+)	35. Thermal Sensor Reading	36. Change Higher + Lower − (c)	37. Computation (c) × (a) = Expansion + Contraction −	Temperature Adjustment / Volume Minus Expansion (+) or Contraction (−) #33(V) − #37(T)	All High Level record Total End Correction / All Low Level compute Change per Hour (NFPA criteria)
8:30	Arrived at site checked in with											
	office at job site. Tank had no											
	access to test through. Cut											
	2" remote fill and installed											
	tee replacing elbo to be able to											
	test through. Setup Re-piped											
	swing on remote fill. set up											
	test equipment and began filling											
	up system.											
11:55	Pump primed and running											
12:12	First sensor reading	1	42"		.600			11976				
12:27		2	40"	42"	.600	.500	−.100	975	12070	+95	+.133	−.233
12:42		3	40.5"	42"	.500	.430	−.070	070	196	+126	+.175	−.245
12:57		4	40.7"	42"	.635	.565	−.070	195	297	+102	+.143	−.213
13:12		5	40.5"	42"	.565	.495	−.070	297	378	+81	+.113	−.183
13:15	dropped to low level		12"		.495							
13:27		6	11.6"	12"	.495	.470	−.025	378	461	+83	+.116	−.141
13:42		7	11.2"	12"	.470	.430	−.040	461	514	+53	+.074	−.114
13:57		8	11.1"	12"	.430	.390	−.040	514	571	+57	+.080	−.120
14:12		9	11.2"	12"	.390	.355	−.035	571	620	+49	+.069	−.104
14:27		10	11.2"	12"	.365	.315	−.040	620	669	+49	+.069	−.109
14:42		11	11.4"	12"	.315	.290	−.025	669	724	+55	+.077	−.102
14:57		12	11.5"	12"	.290	.270	−.020	724	775	+51	+.071	−.091
15:12		13	11.4"	12"	.270	.245	−.025	775	816	+42	+.059	−.084
15:27		14	11.4"	12"	.245	.220	−.025	816	864	+48	+.067	−.092
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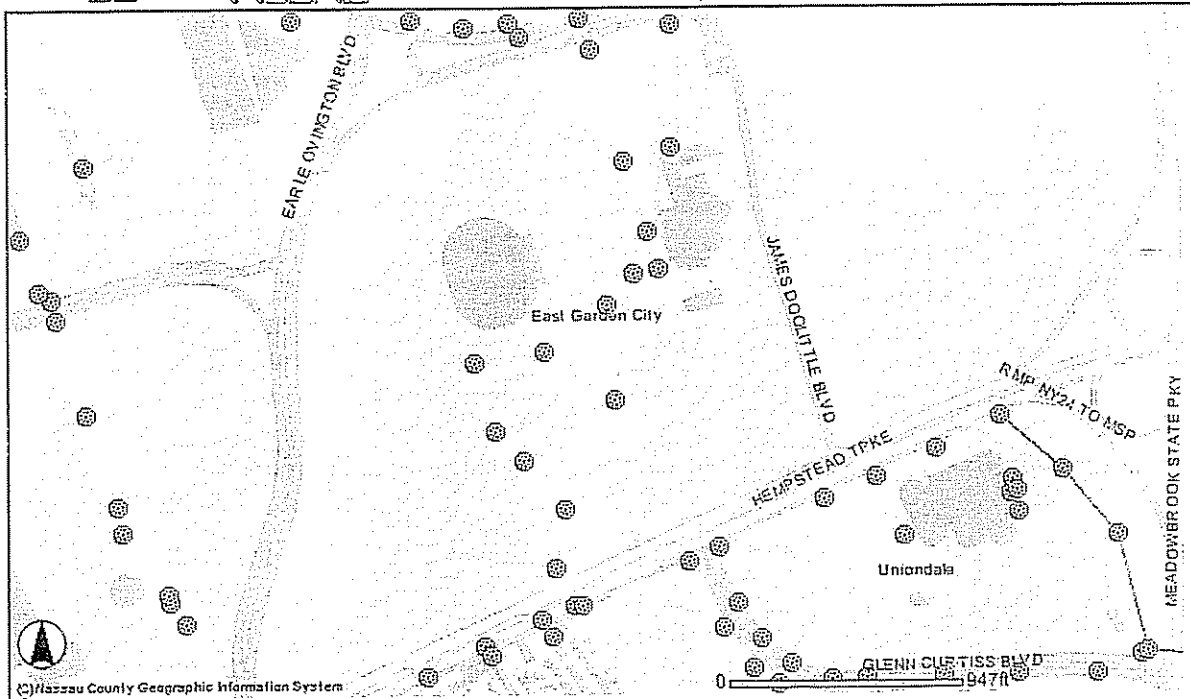
15:57		16	12.1"	12"	.215	.220	+.005	916	968	+52	+.073	−.068
16:12		17	12.2"	12"	.220	.230	+.010	968	13020	+52	+.073	−.063
16:27		18	12.2"	12"	.230	.240	+.010	020	068	+48	+.067	−.057
16:42		19	12.4"	12"	.248	.260	+.020	068	116	+48	+.067	−.047
16:57		20	12.7	12"	.260	.290	+.030	116	161	+45	+.063	−.033
	Turn over											

petro tite TANK TESTER
FENLEY & NICOL CO., INC. 445 BROOK AVENUE, DEER PARK, NEW YORK 11729

Nassau County - Department of Public Works (Version 3.1)

Refresh Map

Zoom Selection
Search by Address
Search by Parcel
Zoom Intersection
Search NYS Well
Meta Data
Help
Feedback
NCGIS Home



- Basemap
- Administrative Boundaries
- Transportation
- Land Information
- Drainage
- Traffic
- Sanitation
- ALL DPW Data
- Recreation
- Topography
- Water
- Aerial Photos

Sewer Manholes

Rec	NCID	Sew Owner	RimElev	RimElevm	Remarks	MhID	MHType	Diameter	Invert	InvertM	Install Date	PWType	Dropasem
Map It	71931	NC6	0	0		3INT05.0095A	-	0	0	0		SMANHOLE	F

CWDB Pipes

Rec	ID	DIAMETER	MATERIAL	LENGTH	REMARKS	NCID	FROMMH	TOMH	UPINV	DOWNINV	SLOPE	COMPLETED	INTERCEPT
Map It Info	3INT05.0095A_3INT05.00095	48		238		539574	3INT05.0095A	3INT05.00095	0	0	1.16999996		T

10615

3-21-3

APPENDIX D

EDR™ Environmental Data Resources Inc

"Linking Technology with Tradition"®

Sanborn® Map Report

Ship To: William L. Schaefer
Northern Bay
1600 Old Country Road
Plainview, NY 11803

Order Date: 11/22/2004 **Completion Date:** 11/22/2004
Inquiry #: 1312428.3
P.O. #: 333
Site Name: Nassau Veterans Memorial Coliseum
Address: Nassau Veterans Memorial Colis
City/State: Uniondale, NY 11553
Cross Streets:

Customer Project: Lighthouse
8010137GIL 516-922-8000

This document reports that the largest and most complete collection of Sanborn fire insurance maps has been reviewed based on client supplied information, and fire insurance maps depicting the target property at the specified address were not identified.

NO COVERAGE

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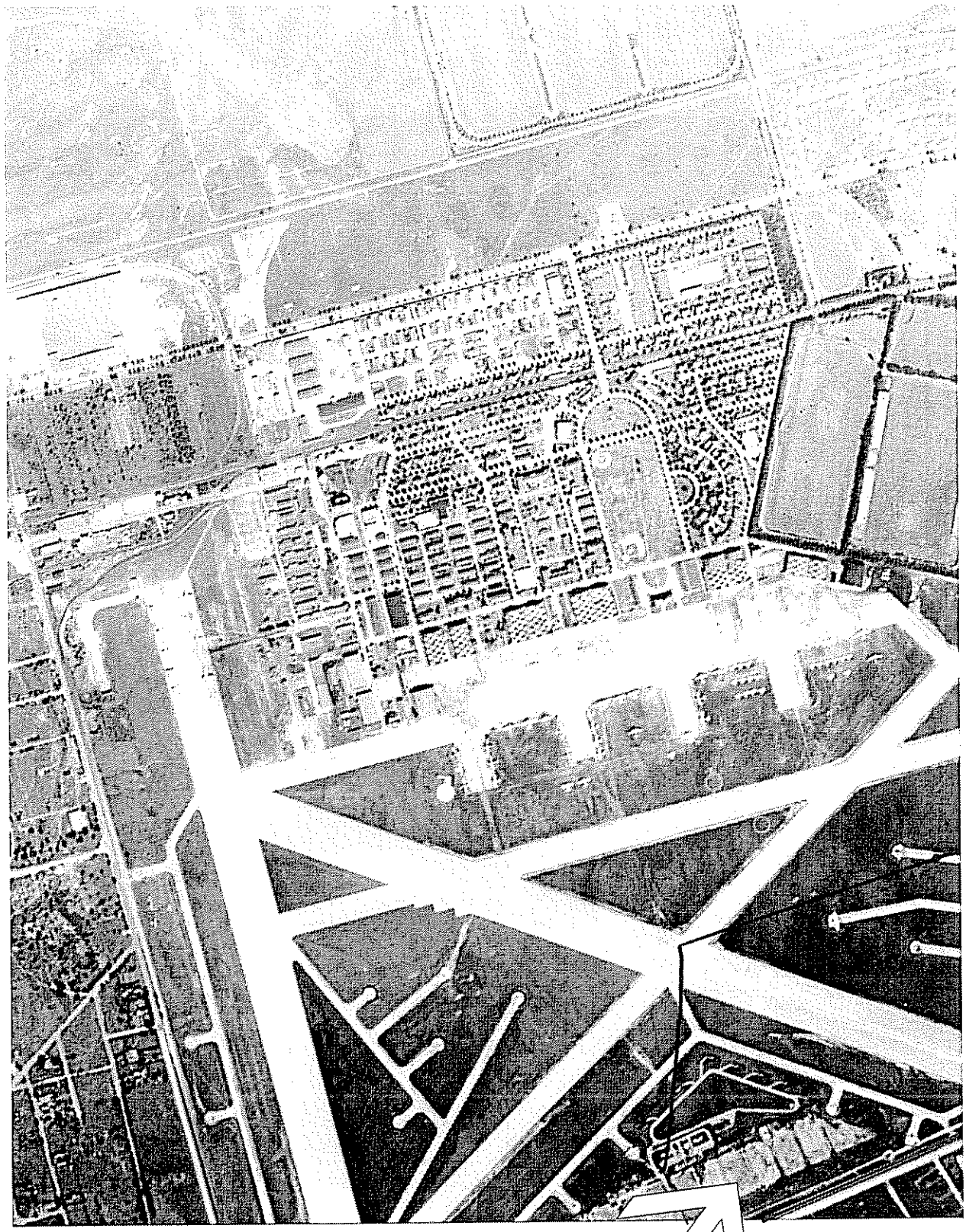
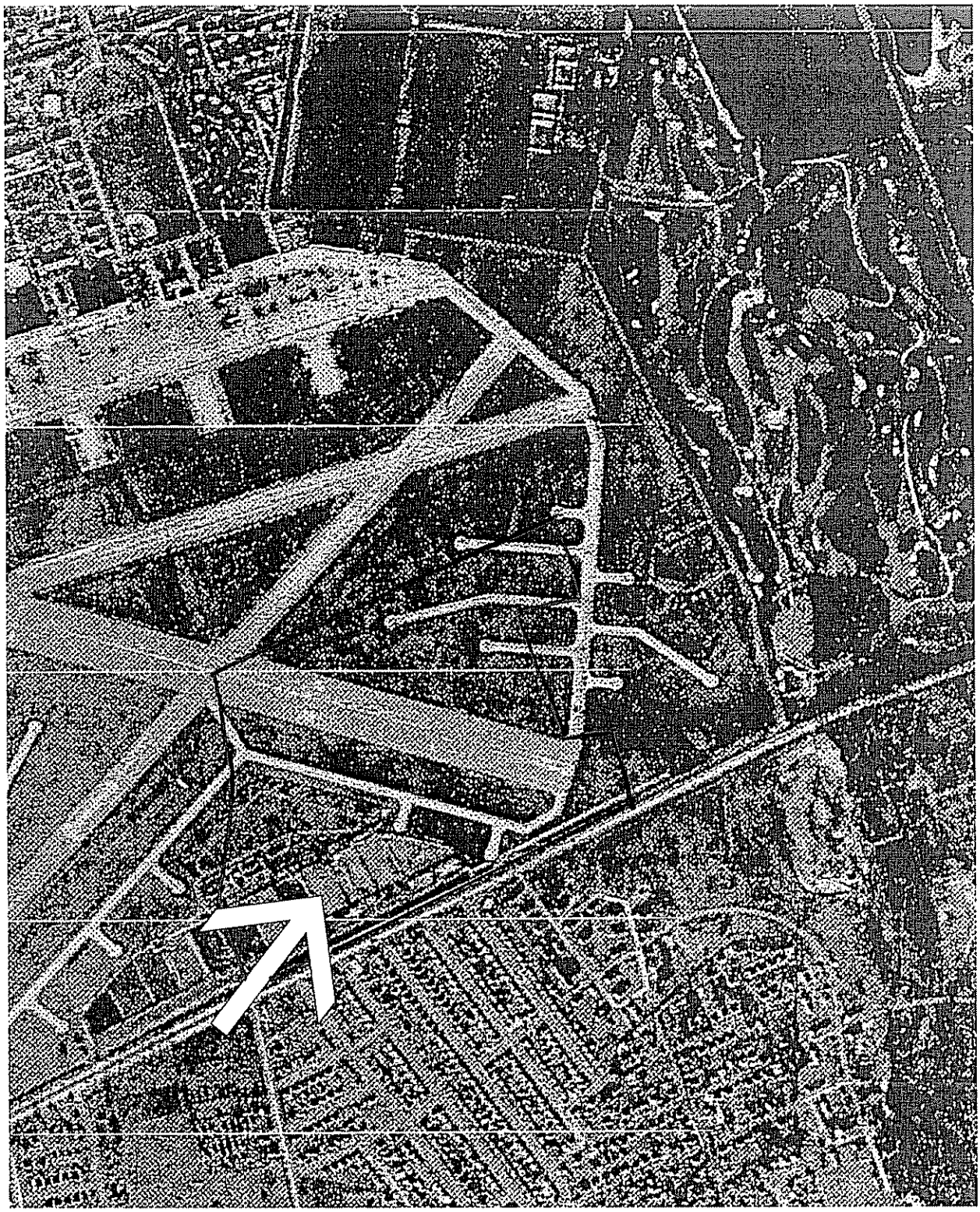
APPENDIX E



1947 Aerial Photograph



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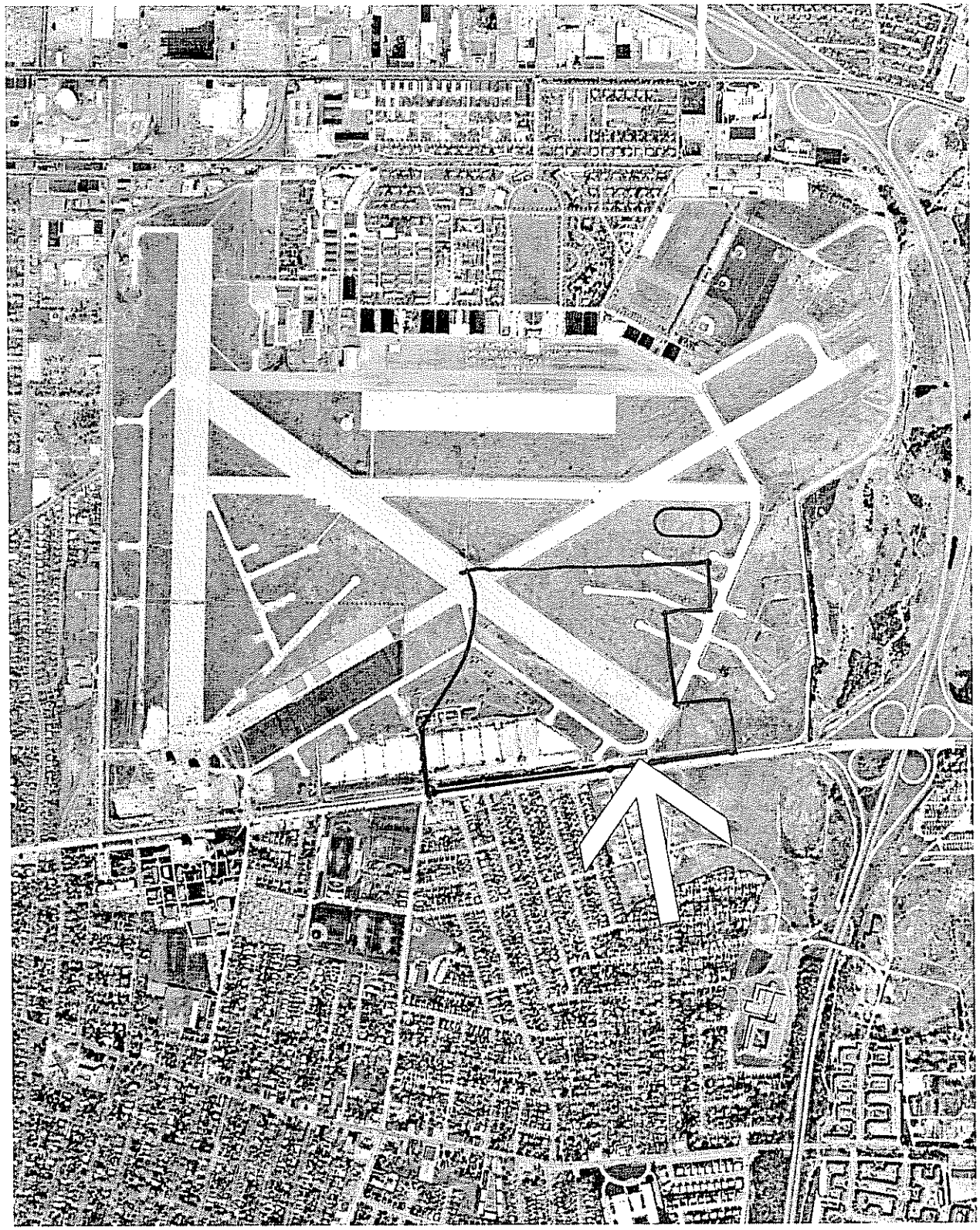
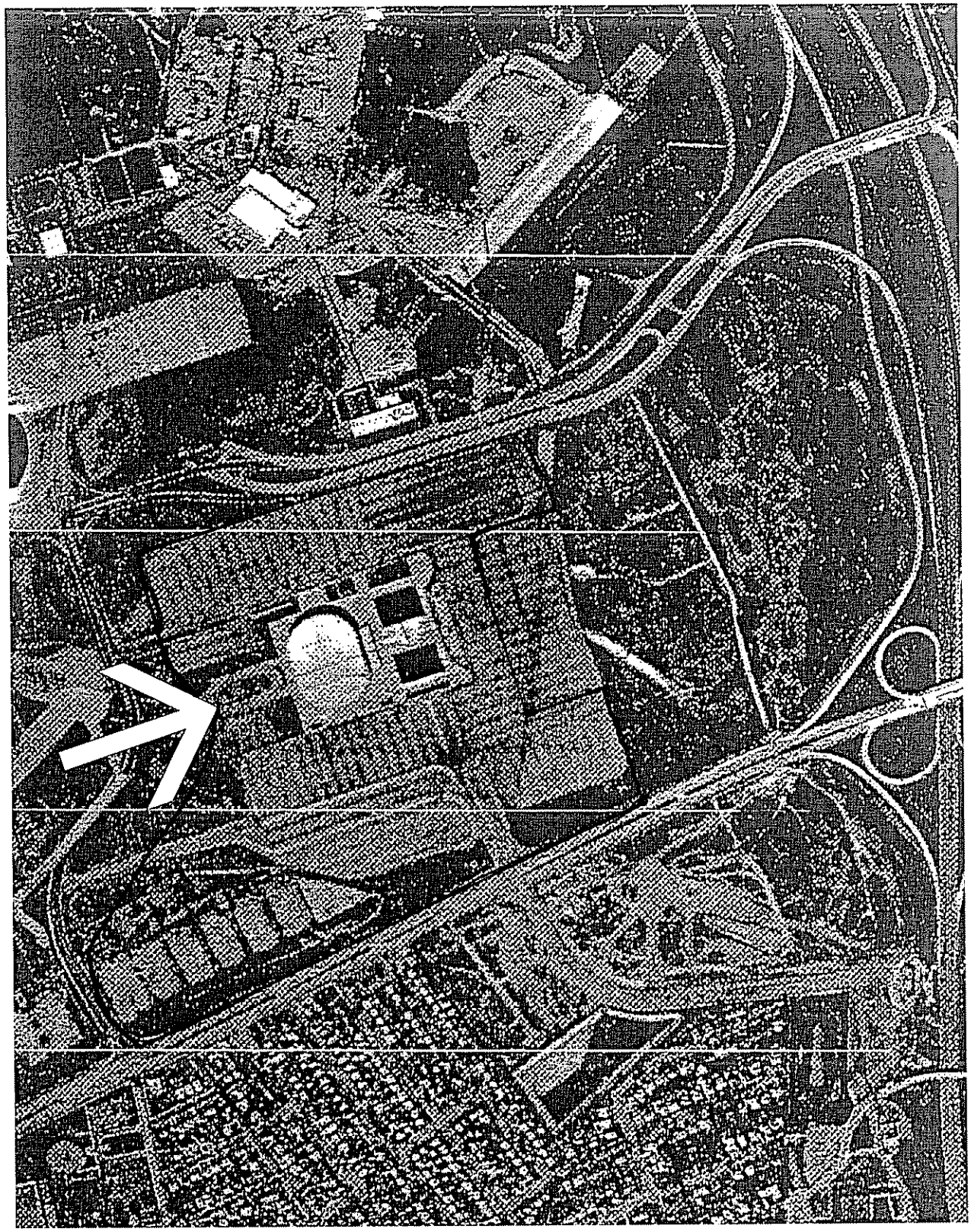
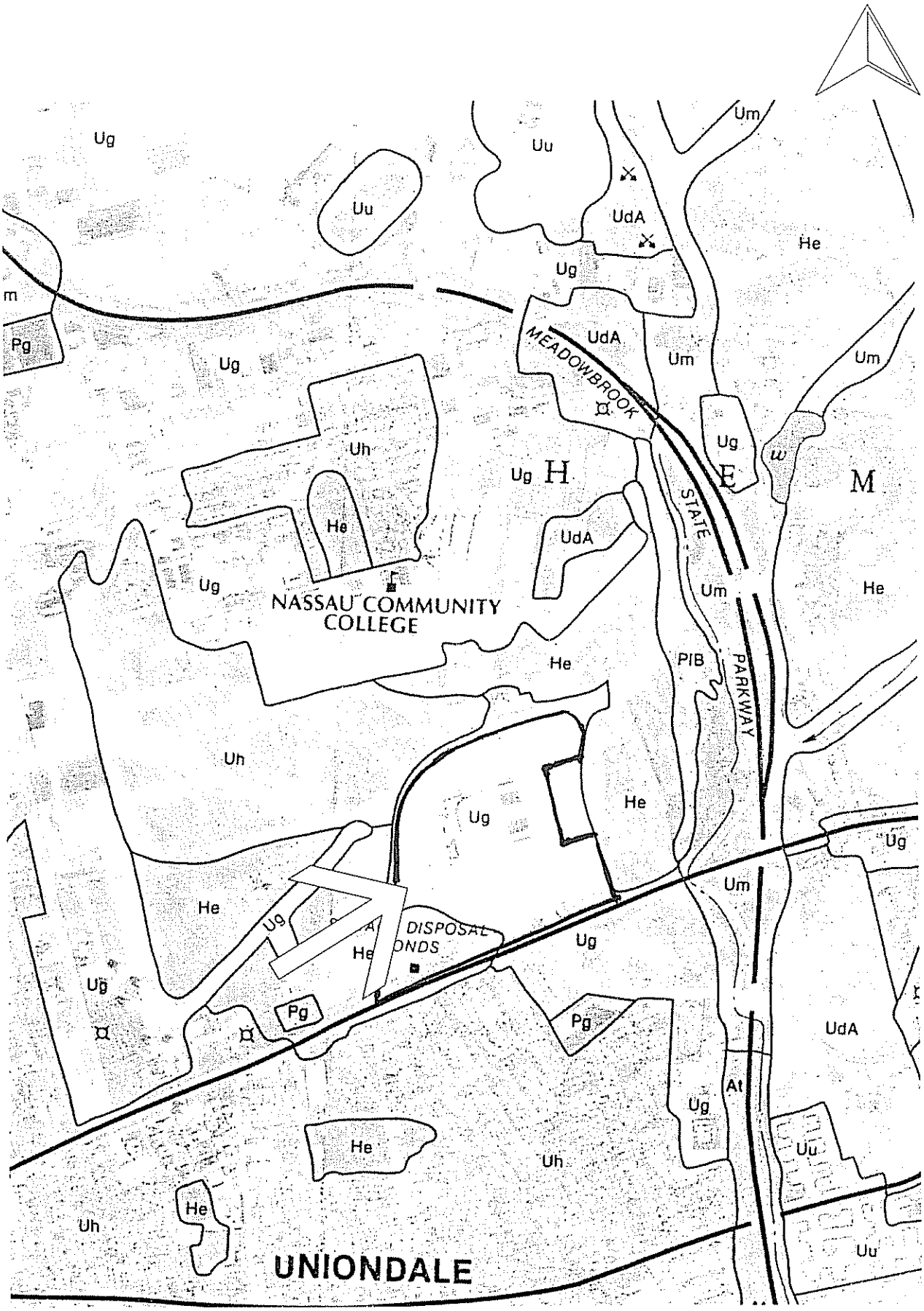


1966 Aerial Photograph



1976 Aerial Photograph



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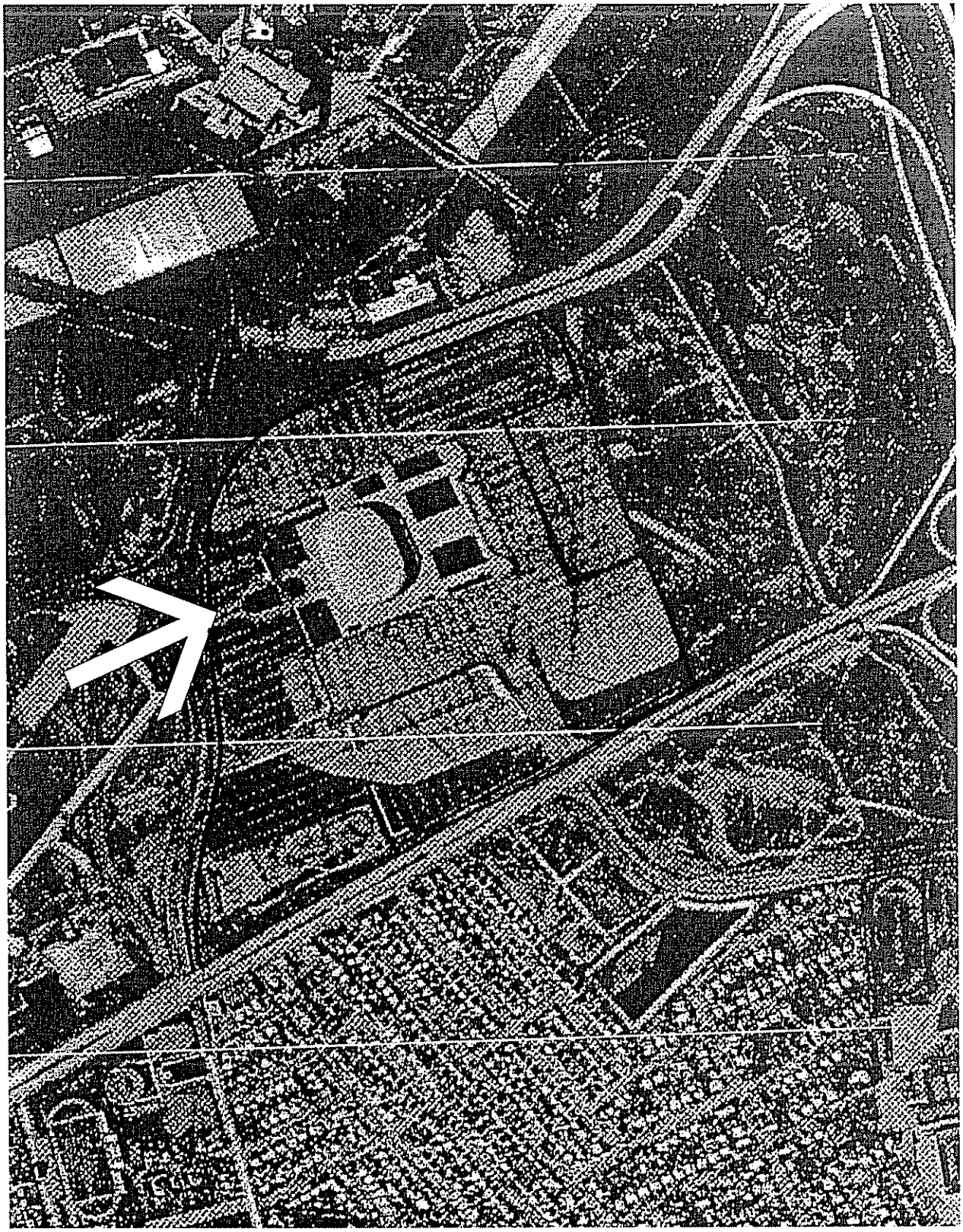

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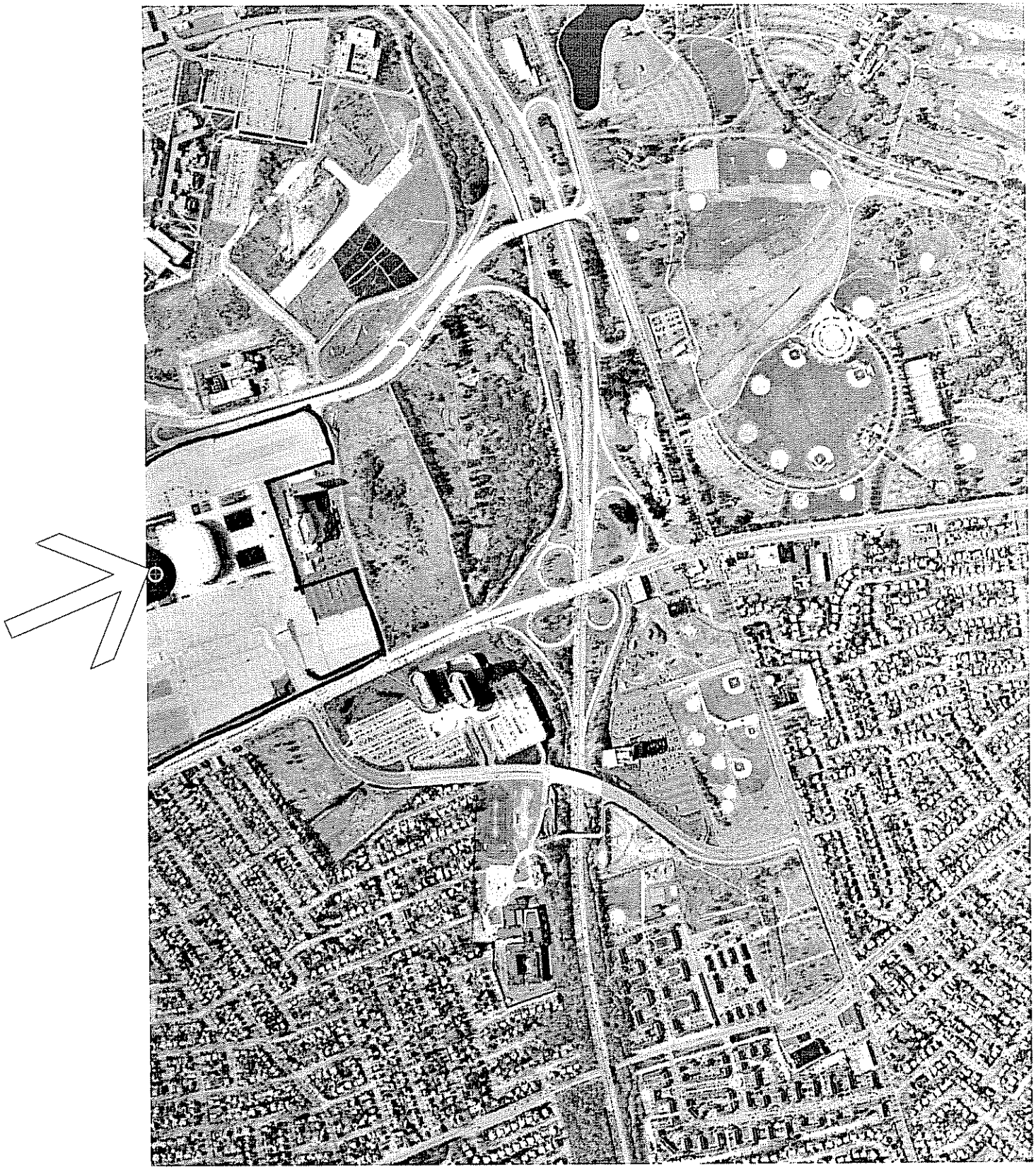
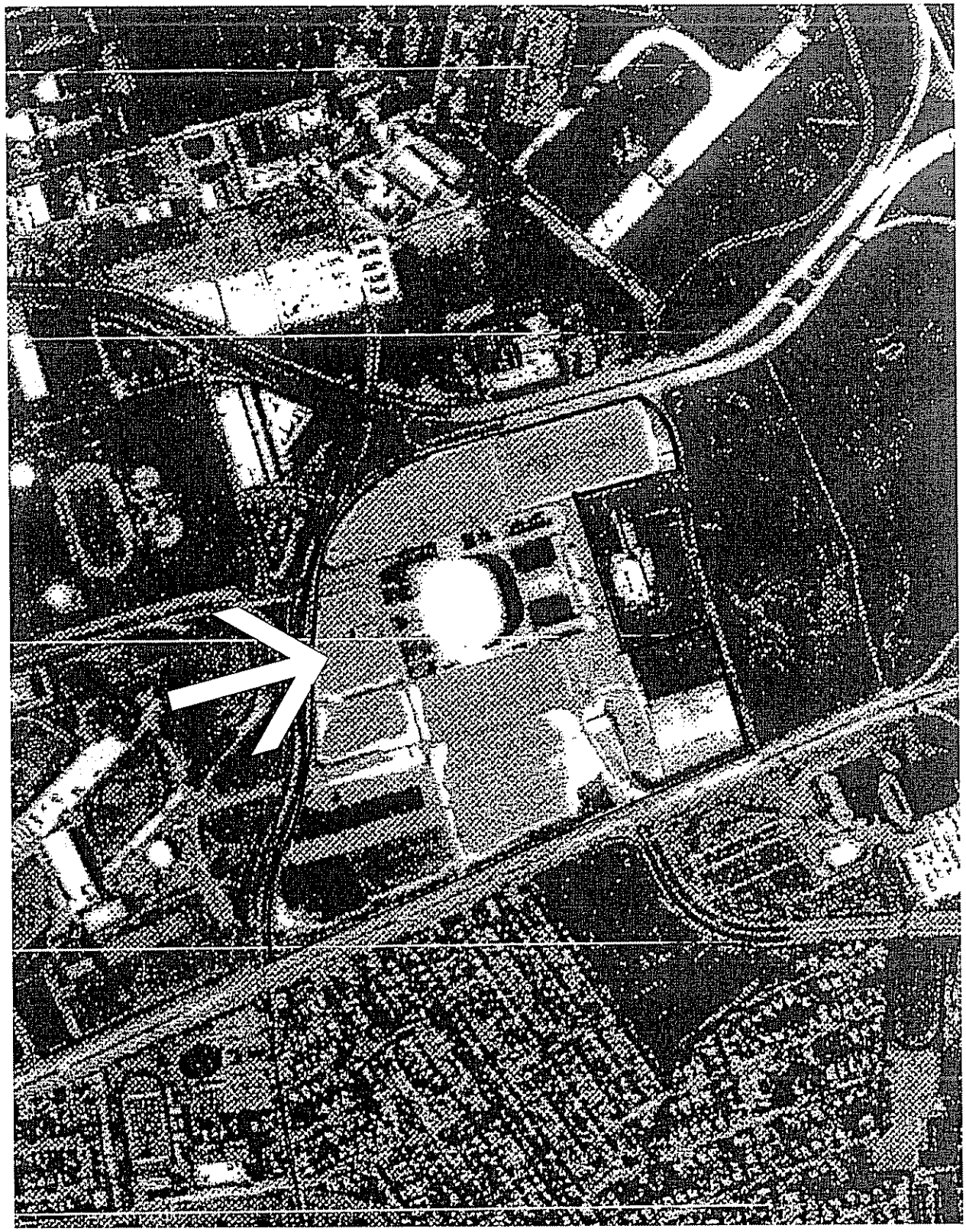
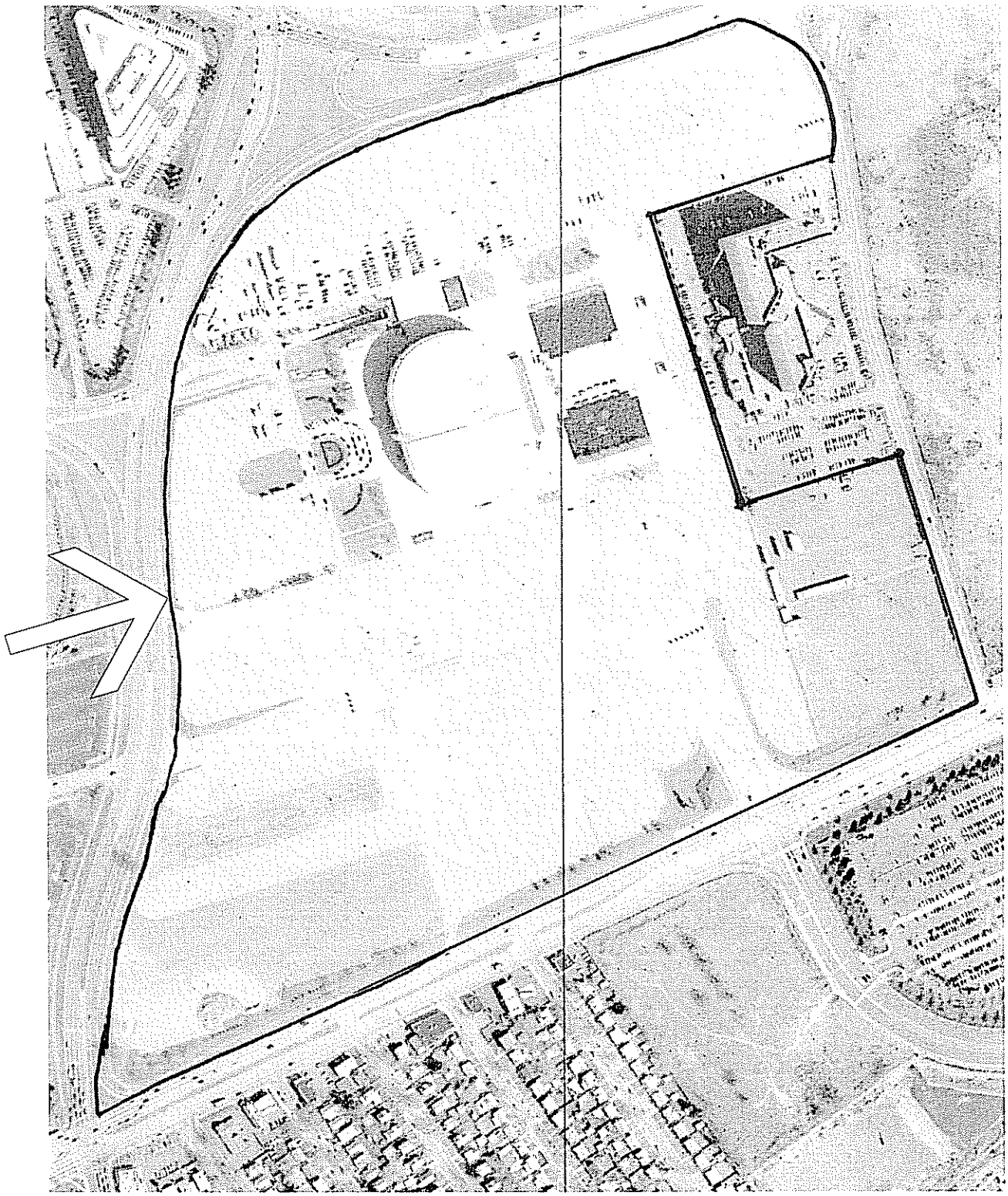


1992 Aerial Photograph

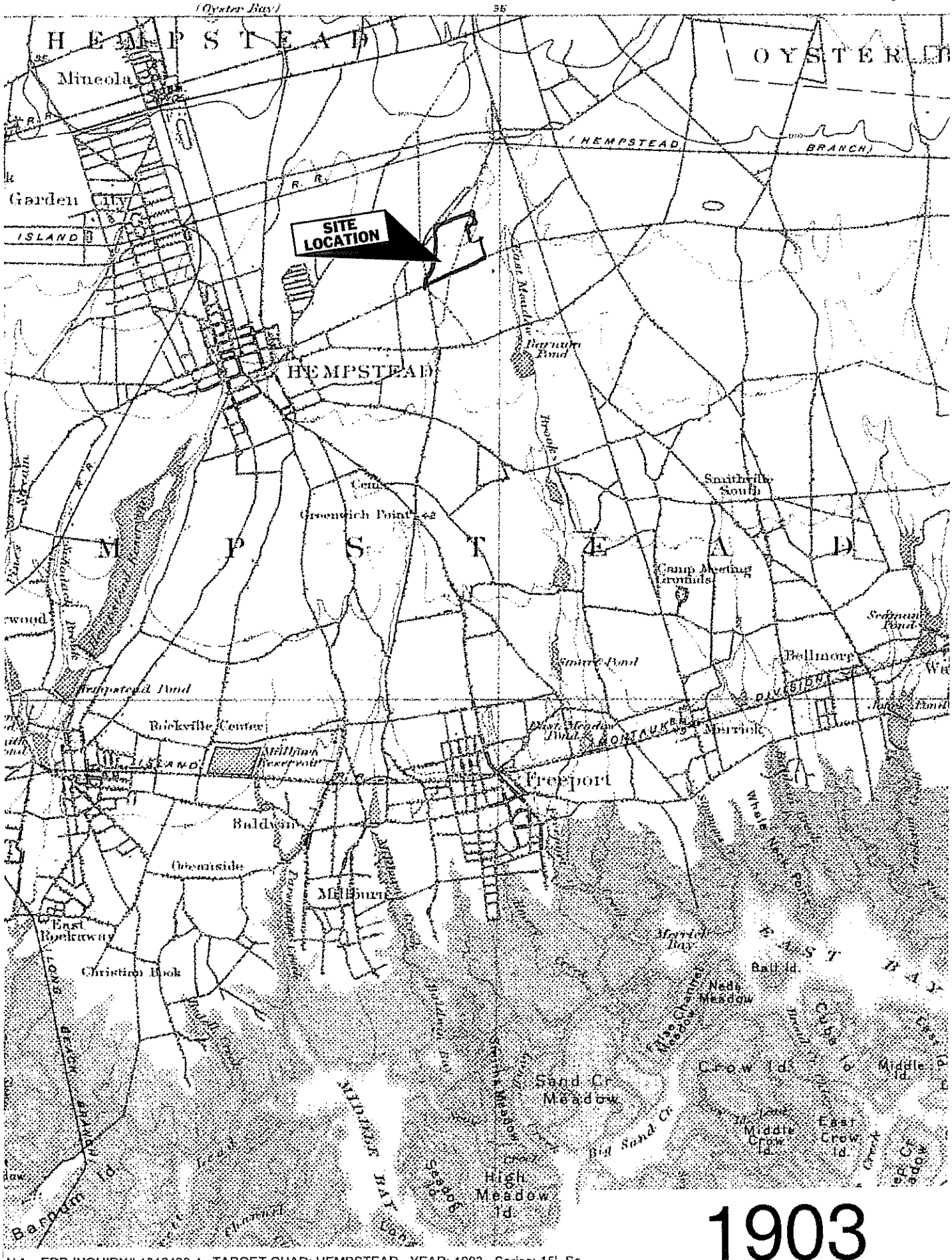


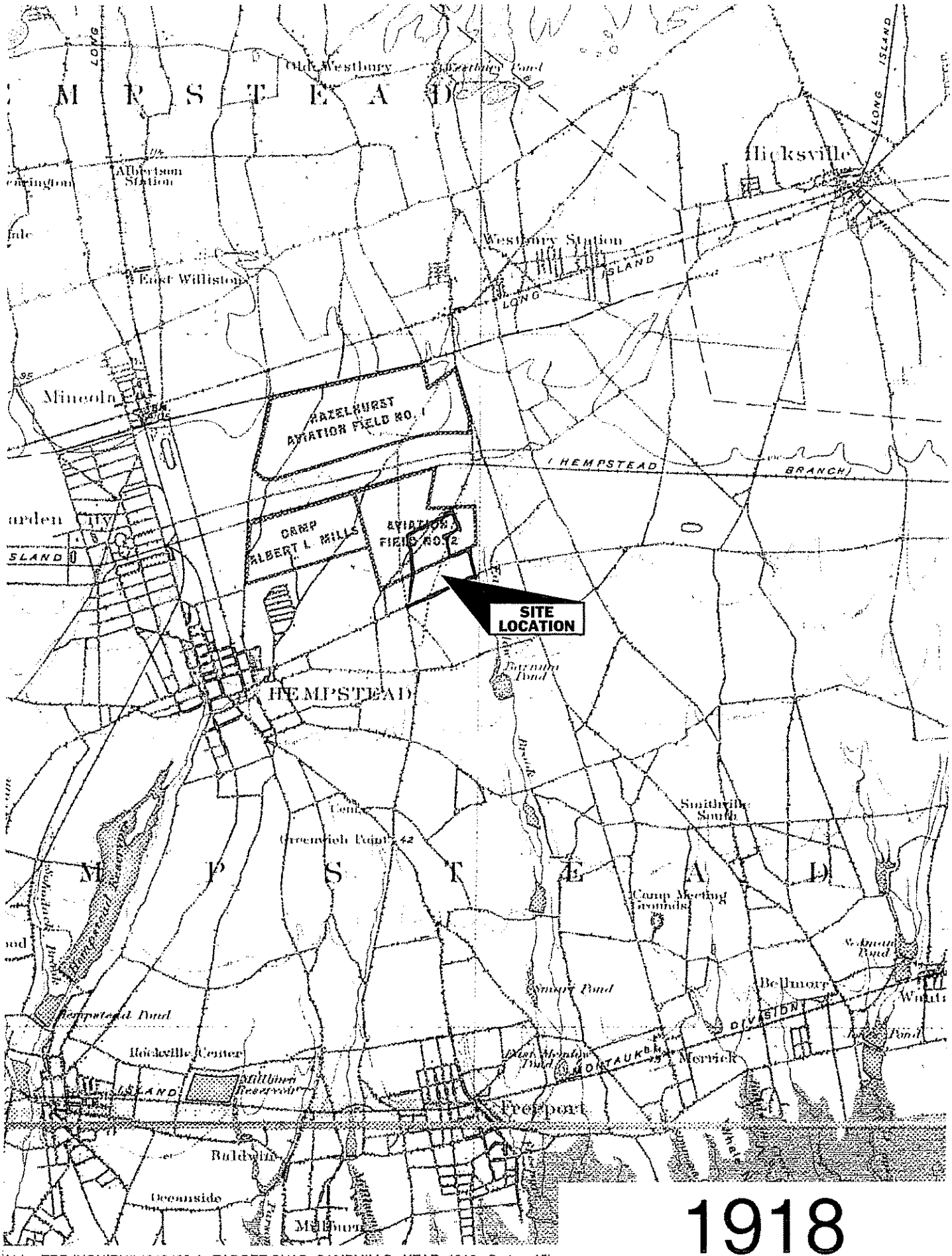
1994 Aerial Photograph



2001 Aerial Photograph

APPENDIX F


SITE LOCATION
HEMPSTEAD
Mineola
Garden City
ISLAND
(HEMPSTEAD BRANCH)
Greenwich Point
Smithville South
Camp Meeting Grounds
Bellmore
Rockville Centre
Freeport
Baldwin
Oceanside
Merrick
Meadow
Sand Cr.
Crow Id.
Middle Id.
High Meadow Id.
Bar Beach
Point Lookout
1903

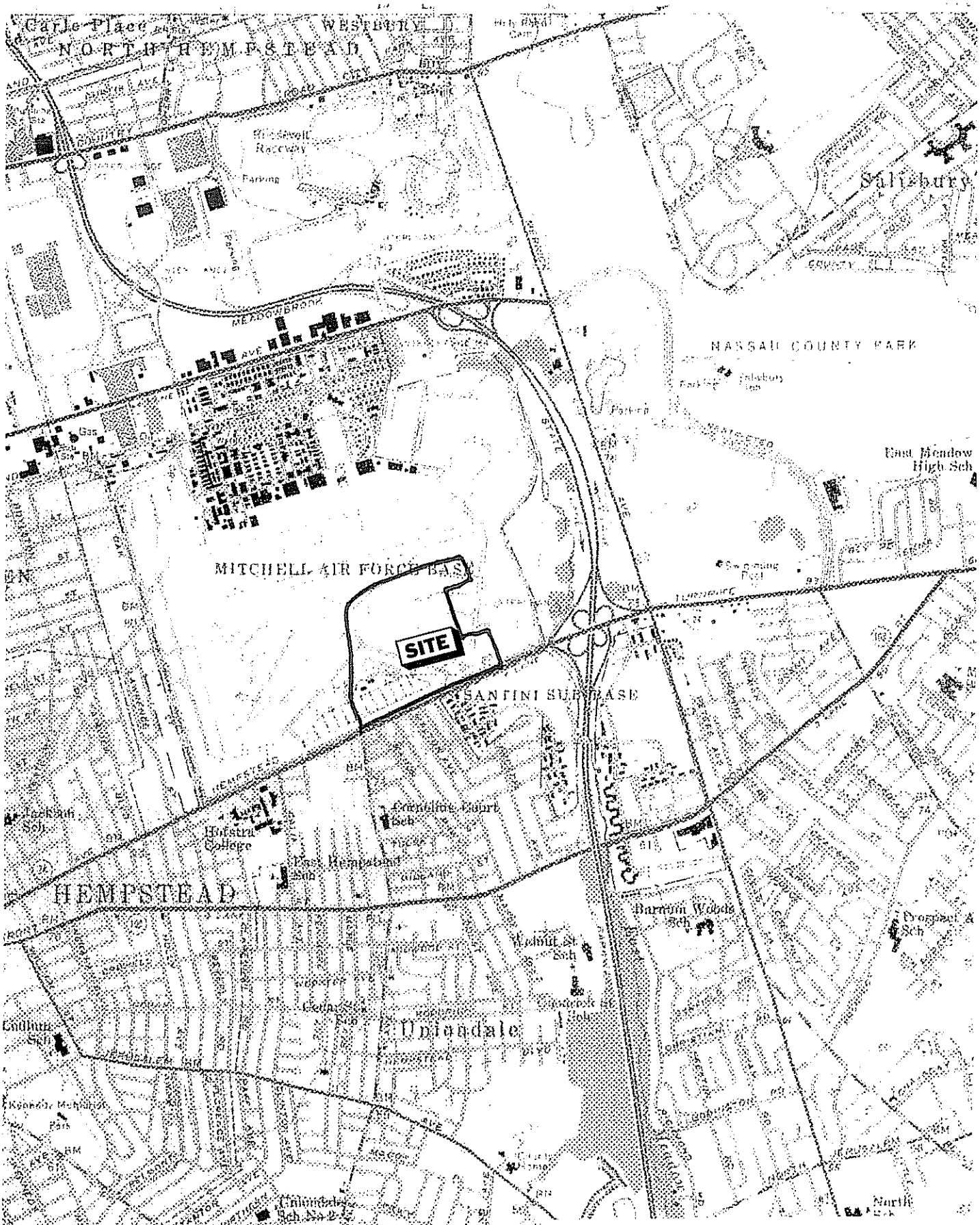


1918

N ^ EDR INQUIRY# 1312428.4 TARGET QUAD: CAMPMILLS YEAR: 1918 Series: 15'

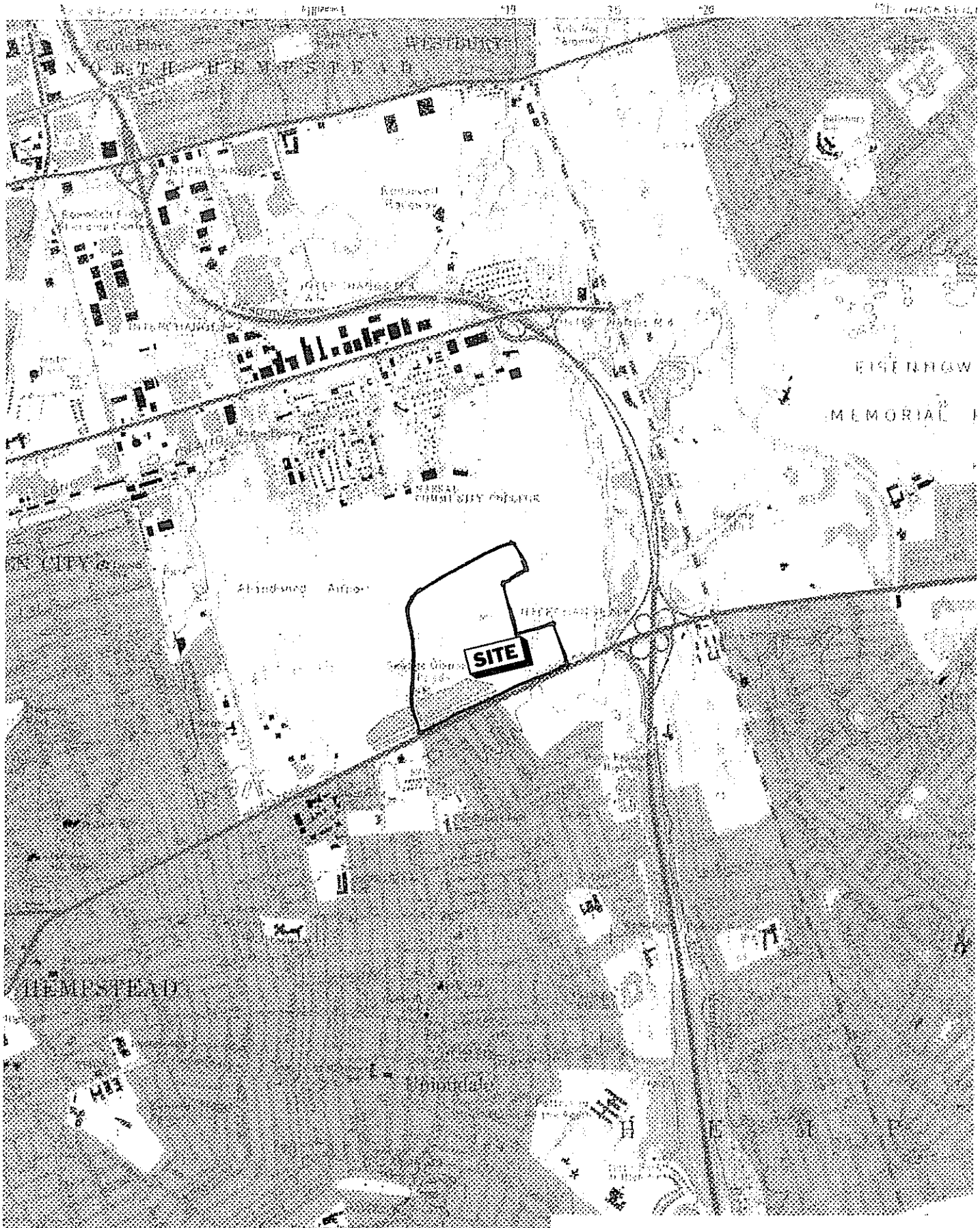
1947

N ^ EDR INQUIRY# 1312428 4 TARGET QUAD: FREEPORT YEAR: 1947 Series 7 5



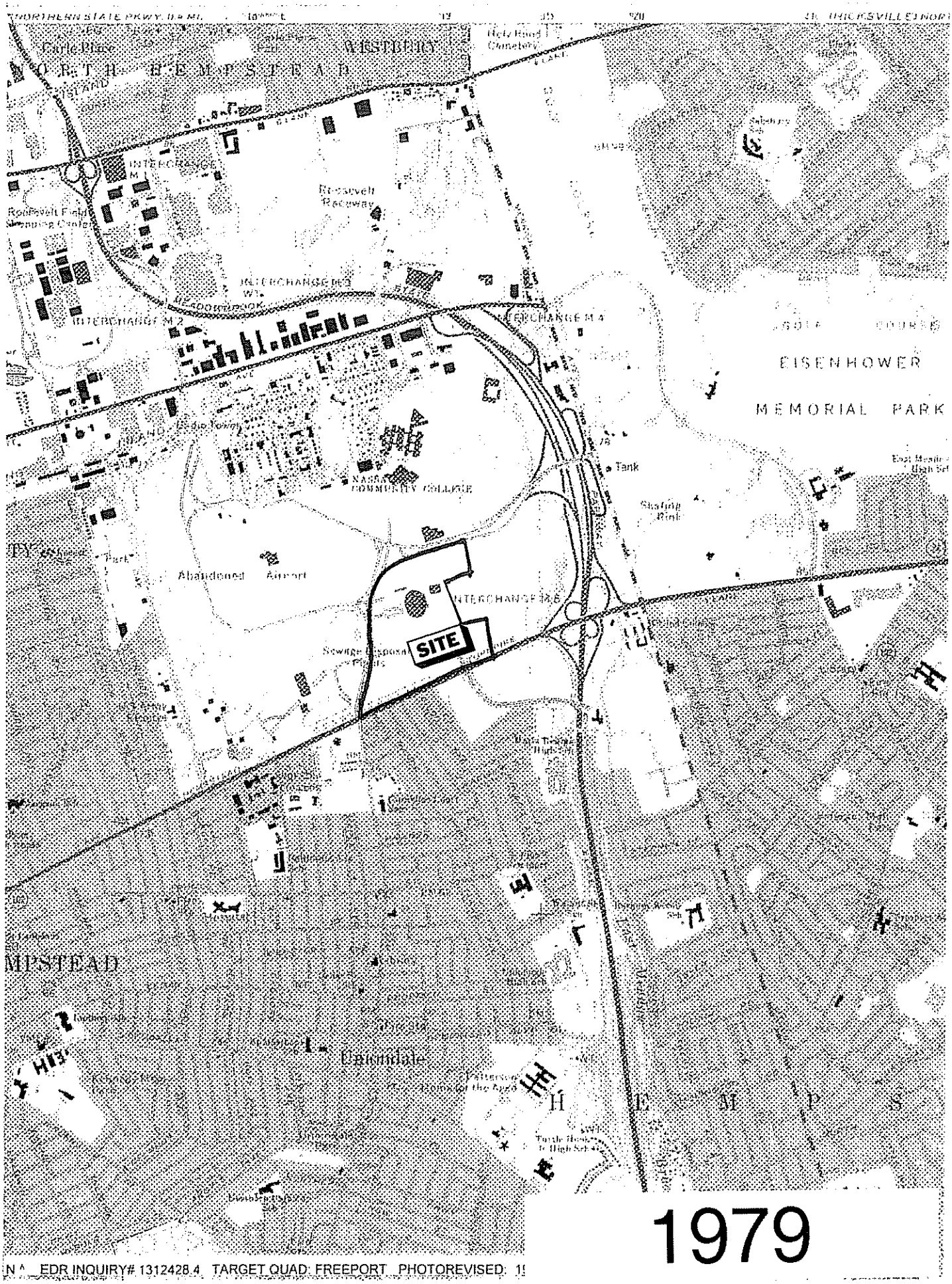
1955

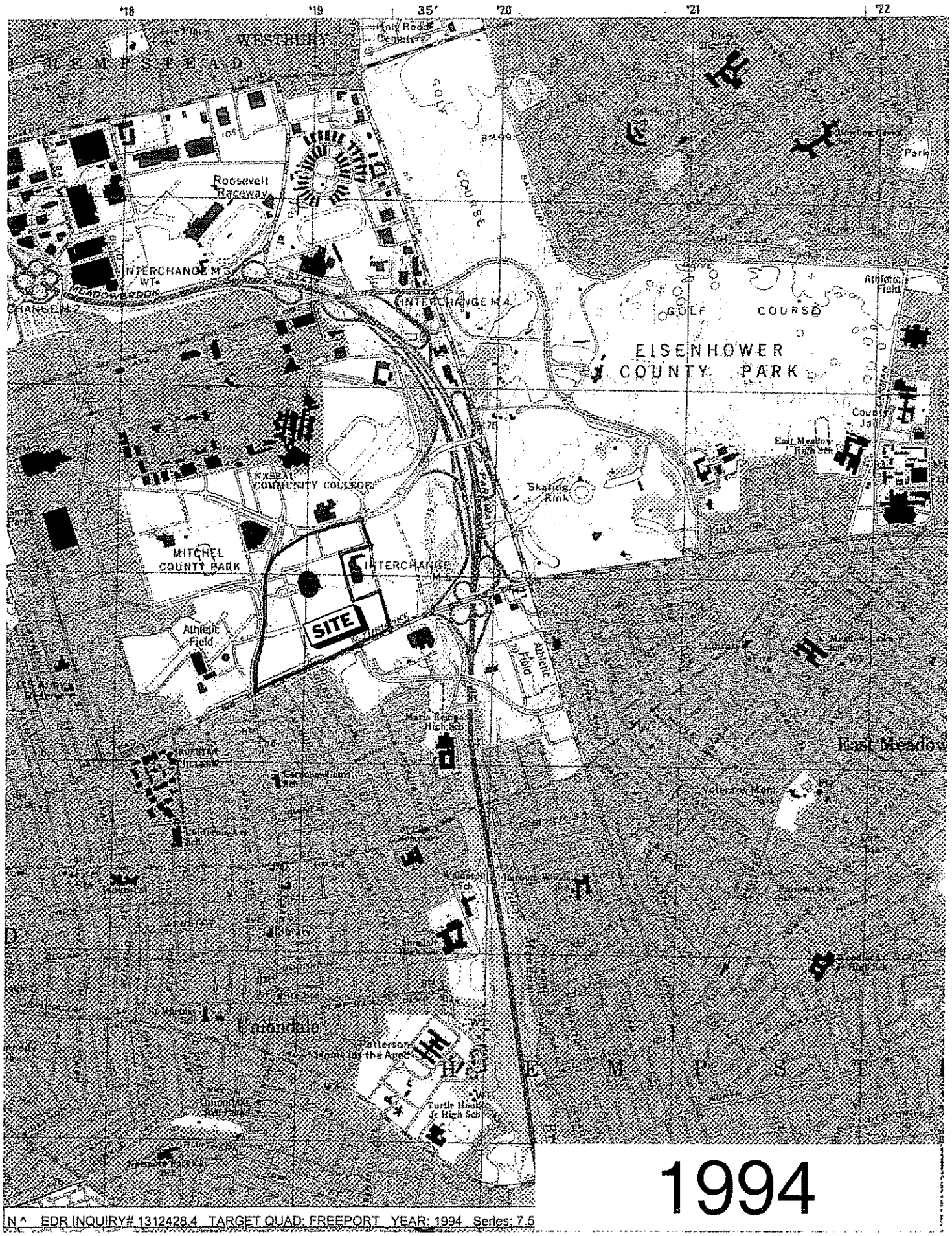
N ^ EDR INQUIRY# 1312428.4 TARGET QUAD: FREEPORT YEAR: 1955 Series:



1969

N ^ EDR INQUIRY# 1312428.4 TARGET QUAD: FREEPORT YEAR: 1969 Series: 7


SITE
EISENHOWER
MEMORIAL PARK
Roosevelt Raceway
Abandoned Airport
Uniondale
1979



N ^ EDR INQUIRY# 1312428.4 TARGET QUAD: FREEPORT YEAR: 1994 Series: 7.5

APPENDIX G

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

APPLICATION FOR ACCESS TO RECORDS

(See Instructions on Reverse Side)

NUMBER

APPLICANT

- TO THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION:

I hereby apply to inspect the following records under the provisions of the Freedom of Information Law:

Any and all records regarding:

NYSDEC Spill No. 01-25233, 93-12784, 87-01759, 87-02169.

1255 Hempstead Turnpike

Uniondale, New York 11553

After inspection, should I desire copies of all or part of the records inspected, I will identify the records to be copied and hereby offer to promptly pay the established fees. (Cost of reproduction or 25¢ per page as applicable) Contact me if cost will exceed $ 35.00.

Name (Print or type) Freudenthal & Elkowitz Consulting Group Telephone No (631) 499-2222

Attention of: Karen Schwarz

Mailing Address 368 Veterans Memorial Highway, Commack, NY 11725

Signature Karen P. Schwarz Date December 28, 2004

F&E #:

RECORDS CUSTODIAN

- TO THE APPLICANT:

–Records Provided

☐ The reproduction costs for the records provided are $ _____

☐ Records have been (partially, fully) provided (If not fully provided, date when records are expected to be fully provided: _____)

–Records Not Available

☐ Records cannot be found after diligent search

☐ The Department is not the custodian for records indicated

–Records Denied

I hereby certify that access to the records–or part of the records–circled above has been denied to the applicant for the reason(s) checked below:

☐ Specifically exempt by other statute

☐ Unwarranted invasion of personal privacy

☐ Would impair present or imminent contract awards or collective bargaining negotiations

☐ Are examination questions or answers

☐ Are inter-agency or intra-agency materials that are not:
- statistical or factual tabulations or data
- instructions to staff that affect the public
- final agency policy or determinations; or
- external audits, including but not limited to audits performed by the comptroller and the federal government

☐ Are trade secrets

☐ Would endanger the life of any person

☐ Are compiled for law enforcement purposes and which, if disclosed would:
- interfere with law enforcement investigations or judicial proceedings
- deprive a person of the right to a fair trial or or impartial adjudication
- identify a confidential source or disclose confidential information relating to a criminal investigation, or
- reveal criminal investigative techniques or procedures, except routine techniques and procedures

☐ Would jeopardize an agency's capacity to guarantee the security of its information technology assets, such assets encompassing both electronic information systems and infrastructures

Identification of records withheld (attach listing if additional space is required) and/or explanation if appropriate:

Records Custodian Signature _____ Title _____ Date _____

NYSDEC REGION 1
INITIAL SPILL REPORT

AH X
LOGGED

SPILL DATE 1/30/94 TIME 1535 hrs. SPILL NO. 93- 12784

CENT OFF DATE 1/30/94 TIME 1645 hrs. ANS SVC DATE 1/30/94 TIME 1635 hrs.

REG OFF DATE 1/30/94 TIME 1605 hrs: FIRST CALL REC'D.BY (A) R. C

UST ELIGIBLE ? Y. N. CALL REC'D. BY : PARISA

LEGAL ACTION: Y. N. INITIAL CLASSIFICATION: C-2

PETROLEUM SPILLED

(1)-GASOLINE 5-DIESEL 8-NON PCB OIL
2-#2 FUEL 6-JET FUEL 9-PCB OIL
3-#4 FUEL 7-WASTE OIL 10-KEROSENE
4-#6 FUEL 11-UNKNOWN

OTHER MATERIAL SPILLED

MATERIAL CLASS

(1)-PETROLEUM 5-UNKNOWN
2-NON PETRO/NON HAZ
3-HAZARDOUS MATERIAL
4-RAW SEWAGE

QUANTITY SPILLED 10-20 GALS/~~LBS~~
TANK SIZE GALS
FAILURE RATE G.P.H
TEST METHOD

SPILL LOCATION Nassau Co/Hiscan

ADDRESS: Parking Lot East 3 Hempstead Lake
MUNICIPALITY: Uniondale
(28)-NASSAU 47-SUFFOLK

SPILLER NAME: R. A. Sommerville
STREET # : 101 Rte 108
CITY/ST/ZIP: East Quogue N.Y.
SPILLER'S PHONE: 673-9396
CONTACT :

SPILL CAUSE

1-HUMAN ERROR 7-DELIBERATE
2-TRAFFIC ACCIDENT 8-ABAND. DRUMS
(3)-EQUIP.FAILURE 9-TANK FAILURE
4-VANDALISM 10-TANK OVERFILL
5-TK TEST FAIL. 11-OTHER
(BULK STOR.PRO.) 12-UNKNOWN
6-HOUSEKEEPING

SPILL SOURCE

1-COMM/INDUST. 7-COMM.VEHICLE
2-NON COMM/INST. 8-TANK TRUCK
3-MAJOR FACILITY 9-PVT.DWELLING
4-BULK FACILITY 10-VESSEL
5-GAS STATION 11-RAILROAD CAR
(6)-PASS.VEHICLE 12-UNKNOWN

RESOURCE AFFECTED

(1)-ON LAND 4-SURFACE WATER
2-IN DRAINAGE 5-AIR
3-GROUND WATER
WATER BODY None.
DRAIN BASIN/SUB BASIN:

NOTIFIER

1-RESP. PARTY 7-CITIZEN
2-AFFECT. PERS. 8-HEALTH DEPT.
3-POLICE DEPT. 9-LOCAL AGENCY
(4)-FIRE DEPT. 10-FED. GOVT.
5-TANK TESTER 11-OTHER
6-NYSDEC (SEE BELOW)

REMARKS : Parked Van fuel tank leaked onto parking Lot FD found & sealed, no drains. Leak stopped. NOAM issued Ticket No to drive away.

ACTION/HISTORY : Parking Lot to be swept. NCFM - HM-65-94 Notified Hiscan.

CALLER'S NAME: W. Pansh
CALLER'S AGENCY: DEC - Reg 1
CALLER'S PHONE:

NOTIFIER'S NAME: Bob DeLance
NOTIFIER'S AGENCY: NCFM
NOTIFIER'S PHONE: 566-5293
ASSIGNED TO : MP
CLOSED DATE : MP 1/31/94
FINAL CLASSIFICATION :

PIN #
T/A #
CC:
EPA ID#

1535 1/30/97 Sun.

NCFM
HM-05-97

Rpyd by Ji Hanson for NCFM
Nassau City Parks Field #East 3 (160' on site)
Uniondale, NY.

10 - 20 g. gasoline. from gas tank on Van (Rolled tank).
1977 Ford Vam. NY Plate XCV-525
VIN # E12HHY58664
R. A. Sommerville
101 Rte 104
E. Quogue NY ~~1/31~~/1992.
653-4396

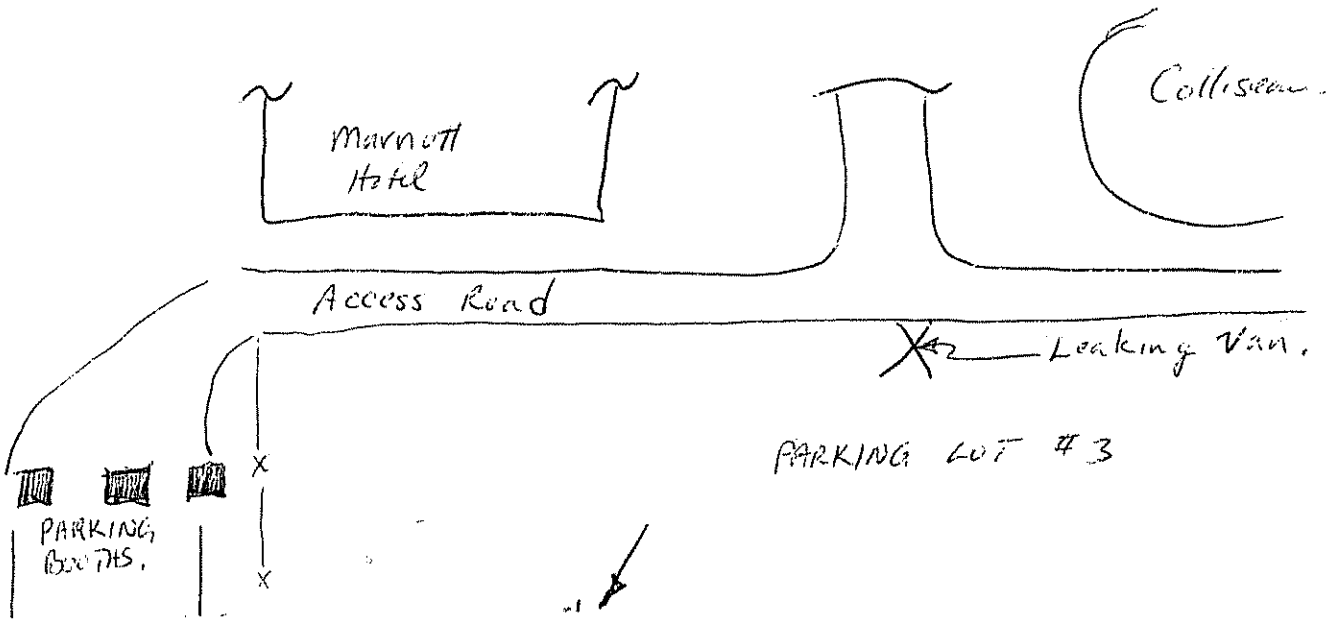
93-12784

502-457-7362

FD. Asst Chief Ludwig. @ 1410
1436.

1640-1645

FD Put down absorbents & NCFM bagged.
NCFM issued Forth-With not to drive van.
away until gasoline tank is repaired.
Leak had stopped by the time I arrived on Scene.
1- bag debris + pail removed - Sand in pail
Sand in Lot to be removed when swept.
1635 NCFM Left site Bob DeLavoie.
1640 Left site. - No other Actions Needed.



cuyeu 01-101

NYSDEC SPILL REPORT FORM

DEC REGION# 1 (Stony Brook) SPILL NUMBER 0125233
SPILL NAME: NASSAU VETERANS COLISEUM DEC LEAD:
CALLER'S NAME: NOTIFIER'S NAME: MARK ELMENDORF
CALLER'S AGENCY: NATIONAL RESPONSE CENTER NOTIFIER'S AGENCY: ERM
CALLER'S PHONE: (800) 424-8802 EXT. NOTIFIER'S PHONE: (516) 921-4300 EXT.

SPILL DATE: 10/19/2001 TIME: 11:00
CALL RECEIVED DATE: 10/22/2001 TIME: 08:48 RECEIVED BY CID #:

Material Spilled	Mat. Class	Am't Spilled	Units	Am't Recovered
1) ETHYLENE GLYCOL	Pet-(Haz)-Other-Unk.	700	(Gal) Lbs	Unknown
2)	Pet-Haz-Other-Unk.		Gal - Lbs	
3)	Pet-Haz-Other-Unk.		Gal - Lbs	
4)	Pet-Haz-Other-Unk.		Gal - Lbs	

SPILL LOCATION

PLACE: NASSAU VETERANS COLISEUM
STREET: 1255 HEMPSTEAD TURNPIKE
T/C/V: UNIONDALE CO: NASSAU
CONTACT: SCOTT MULLEN
PHONE: (516) 794-9372 EXT.

POTENTIAL SPILLER

NAME:
STREET:
CITY:
STATE: ZIP:
CONTACT:
PHONE: EXT.

SPILL CAUSE

Human Error	Tank Test Failure*	Tank Failure
Traffic Accident	Housekeeping	Tank Overfill
(Equipment Failure)	Deliberate	Other
Vandalism	Abandoned Drums	Unknown

SPILL SOURCE

Gas Station	Private Dwelling	Non-Maj Facility
Passenger Vehicle	Vessel	Comm/Indust
Comm. Vehicle	Railroad Car	(Non-Comm/Instit)
Tank Truck	Major Facility	Unknown

RESOURCE AFFECTED

On Land	Groundwater	Air
(In Sewer)	Surface Water**	

**WATERBODY:

SPILL REPORTED BY

Responsible Party	Tank Tester	(Local Agency)
Affected Persons	DEC	Federal Gov't
Police Department	Citizen	Other
Fire Department	Health Dept.	

CALLER REMARKS: THE MATERIAL RELEASED FROM A COOLING SYSTEM DUE TO A PIPE BREAKAGE.

10/22/01 11:15 T/c to Mark Elmendorf - Cedar Creek Sewage District has been Notified.
↳ Possibly as much as 700gallons of Ethylene Glycol / Water

*PBS Number	Tank Number	Tank Size	Test Method	Leak Rate

PRIMARY CONTACT CALLED DATE: TIME: hrs. REACHED DATE: TIME: hrs.
SECONDARY CONT. CALLED DATE: TIME: hrs. FAXED BY CID#:

PIN #	T & A	Cost Center	ISR to Central Office
Cleanup Ceased	Meets St'ds NO	Last Inspection	Penalty NO
RP-CUI	ENF-INIT	INVES-COM	CAP
UST Trust Eligible NO	Site: A (B) C D E	Resp. Party 1 2 3 (4) 5 6	Reg Close Date 10/22/01

Created on 10/22/2001 Last Updated on 10/22/2001 Is Updated? YES EDO DATA INPUT [ ]
Date Printed: 10/22/2001

Brian D

Spill # 0125233

New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Spill Prevention & Response, 11th Floor
625 Broadway, Albany, New York 12233-7020
Phone: (518) 402-9546 • **FAX:** (518) 402-9577
Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

FAX COVER SHEET

TO: Karen Gomes – Region 1.
Fax# ~~(646)~~ (631) 444-0373

FROM: Brett Putnam

DATE: 10/22/01

NO. OF PAGES (including cover sheet): 3

SUBJECT: Spill Report

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region One
Bureau of Spill Prevention and Response

REFERRAL MEMORANDUM
INTER-DEPARTMENTAL ONLY

To:
- ☐ Air Unit
- ☐ Hazardous Waste Remediation
- ☐ Solid Waste
- ☐ Pesticides
- ☑ Water Unit
- ☐ Natural Resources
- ☐ Marine Habitat Protection
- ☐ Law Enforcement
- ☐ Other (Specify) _____

From: Bureau of Spill Prevention and Response

Referred By: Brian M. Donovan

Date: 10/22/01

Re: Spill # 0125233

Attached, please find a copy of our Spill Report and any pertinent information. This incident is being referred to your unit for any appropriate actions and/or follow-up that you deem necessary.

If you have any questions regarding this matter, please contact the above referenced inspector.

Note: Copy of Spill Report must be attached to original Memo and submitted to the appropriate unit. Copy of this memo must be attached to the original Spill Report to document referral.

refmem (rev. 5/00)

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region One
Spill Prevention and Response
Building 40 - SUNY, Stony Brook, New York 11790-2356
Phone: (631) 444-0320 • **FAX:** (631) 444-0328
Website: www dec state ny us

Erin M. Crotty
Commissioner

February 20, 2002

Environmental Resources Management
Matt Gallo
520 Broad Hollow Road
Suite 210
Melville, NY 11747

Re: Spill # 01-25233, Nassau Veterans Coliseum, 1255 Hempstead Turnpike, Uniondale

Dear Mr. Gallo:

Based upon a review of the file, you have completed the investigation/remediation for the referenced site.

This office has no further requirements for the referenced spill at this time. Should additional environmental problems be discovered at this site, this office will require further action at that time. The spill file has been removed from our active spill list.

Please call me if you have any questions.

Sincerely,

Karen J. Gomez, P.E.
Regional Spill Engineer

KJG:rl
cc: S. Mullen, NVC

0125233

Environmental
Resources
Management

520 Broad Hollow Road
Suite 210
Melville, NY 11747
(631) 756-8900
(631) 756-8901 (fax)

4 January, 2002

Spill Prevention & Response
New York State Department of
Environmental Conservation
Building 40
SUNY-Stony Brook
Stony Brook, NY 11790-2356

Re: Ethylene Glycol Spill Investigation
Nassau Coliseum
Spill number 0125233 – N/A

Dear Sir or Madam:

As previously reported, Nassau Coliseum experienced a minor accidental release of ethylene glycol on 4 October 2001. The purpose of this letter is to provide some additional detail regarding that occurrence, and corrective measures that have been taken.

Ethylene glycol is utilized within a cooling system which maintains the ice rink at the Coliseum. The cooling system is comprised of a network of small diameter piping located under an ice rink, which feed into a 12-inch diameter header pipe. The header pipe and associated piping is under pressure from a re-circulation pump which forces ethylene glycol through the system creating a temperature required to maintain the ice within the rink. The header system is fully contained within a concrete box with a single outlet. The outlet acts as a "drain" which feeds into the sanitary lift station of the coliseum. This outlet is necessary since water from the ice surface is drained to the concrete box several times each year when the ice is removed. There are no additional outlets associated with the system.

On the morning of 4 October 2001, Coliseum staff identified a minor pressure drop in the system. The cause of the pressure drop was identified as a small pinhole in the top section of the header pipe. The Coliseum staff shut down the cooling system to relieve the pressure and slow additional release of the ethylene glycol as soon as they identified the pressure drop.

Ethylene glycol was released into the contained area surrounding the header pipe. Coliseum staff reported flushing the area with water. This material flowed into the lift station, was mixed with the sanitary waste from the Coliseum and flowed out to the local POTW street connection. Maurice Osman at the Cedar Creek Water Pollution Control Facility was contacted and notified of the release to the sewer system.

Based on the information provided to ERM, it appears the material never reached the environment in a direct or in-direct route. Any released material was fully contained within the system and under worst case assumptions was mixed into the existing sanitary waste in the lift station.

The amount of ethylene glycol released was initially believed to be less than reportable quantities. However, it was later determined during the course of our investigation that the actual quantity of material may have been approximately 700 gallons. If this was the case, the amount would have exceeded the CERCLA reportable quantity of 5000 pounds. Based on this information the following agencies were notified:

- National Response Center (NRC) (1-800-424-8802) A report was called in to the NRC. A case number of 583-726 was assigned.
- New York State Department of Environmental Conservation (NYSDEC). The NRC reporting required the NRC to contact the NYSDEC. The NYSDEC then automatically opens a spill number (0125233) for the report. ERM was contacted by Mr. Brian Donavan (1-800-457-7362) from the NYSDEC Region I Spill Department with this information.
- Nassau County – ERM again contacted the Cedar Creek plant (516-571-7352) to update the county on the increase in quantity. The county stated the increase did not cause a problem at the plant although they would like to obtain a corrective action report as soon as possible.
- Emergency Planning Community Right-to-know Act (EPCRA) Reporting consisted of two elements:
  - State Emergency Response Commission (SERC) reporting is not required due to the NYSDEC report. The NYSDEC handles all SERC reporting in New York and one report is all that is required.
  - Local Emergency Response Commission (LEPC – ERM left two phone messages for the Nassau County LEPC (516-573-7527).

As part of the incident investigation, an internal review of practices for managing the system was conducted to identify factors contributing to the incident and corrective actions. The following corrective action items are now in place as a result of the investigation:

- Routine inspection of the cooling system will continue, as they have historically, to ensure preventive measures necessary to maintain the system are identified; and
- The drain in the concrete containment box is required since ice rink melt water must be drained to this location when the ice is removed. A magnetic drain cover has been installed over the drain and is to be maintained in place at all times except when the ice is removed (approximately three (3) times each year).

Based on the above information, ERM would request the spill case for the occurrence be closed at this time.

If you have any questions regarding this letter or the investigation, please do not hesitate to call the undersigned at 631-756-8900.

Sincerely,

Matt Gallo

Matt Gallo, CPEA

FirstSearch Technology Corporation

Environmental FirstSearch™ Report

TARGET PROPERTY:

1255 HEMPSTEAD TPKE

UNIONDALE NY 11553

Job Number: NOR-04-36

PREPARED FOR:

02-04-05

Tel: (201) 848-4789 *Fax: (201) 848-4789*

Environmental FirstSearch is a registered trademark of FirstSearch Technology Corporation All rights reserved

Environmental FirstSearch
Search Summary Report

Target Site: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	12-10-04	1.00	0	0	0	0	0	0	0
CERCLIS	Y	01-18-05	0.50	0	0	0	0	-	0	0
NFRAP	Y	06-23-04	0.50	0	0	0	0	-	0	0
RCRA TSD	Y	09-12-04	1.00	0	0	0	0	0	0	0
RCRA COR	Y	09-12-04	1.00	0	0	0	0	0	0	0
RCRA GEN	Y	09-12-04	0.25	1	0	5	-	-	5	11
RCRA NLR	Y	07-12-04	0.25	2	0	0	-	-	3	5
ERNS	Y	12-31-04	0.25	0	0	0	-	-	1	1
NPDES	Y	10-17-04	0.25	0	0	0	-	-	1	1
FINDS	Y	07-16-98	0.25	3	0	2	-	-	2	7
TRIS	Y	11-08-04	0.25	0	0	0	-	-	0	0
State Sites	Y	10-01-04	1.00	0	0	0	2	1	2	5
Spills-1990	Y	12-08-04	0.50	4	11	10	67	-	71	163
Spills-1980	Y	10-18-00	0.50	2	0	0	42	-	51	95
SWL	Y	01-01-04	0.50	0	0	0	0	-	5	5
Permits	Y	05-01-99	0.25	0	0	0	-	-	2	2
Other	Y	01-01-02	0.25	0	0	0	-	-	1	1
REG UST/AST	Y	01-01-02	0.25	3	3	6	-	-	30	42
Leaking UST	Y	12-08-04	0.50	2	2	1	46	-	4	55
Nuclear Permits	Y	04-30-99	0.25	0	0	0	-	-	0	0
Releases(Air/Water)	Y	12-31-04	0.25	1	0	0	-	-	2	3
HMIRS	Y	03-31-03	0.25	0	0	0	-	-	0	0
NCDB	Y	08-30-04	0.25	0	0	0	-	-	0	0
PADS	Y	09-14-04	0.25	0	0	0	-	-	0	0
Federal Other	Y	12-31-02	0.25	0	0	0	-	-	0	0
Brownfield	Y	03-17-04	0.50	0	0	0	0	-	2	2
Receptors	Y	01-01-95	0.50	0	0	0	7	-	0	7
- TOTALS -				18	16	24	164	1	182	405

Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to FirstSearch Technology Corp , certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in FirstSearch Technology Corp 's databases All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information

Waiver of Liability

Although FirstSearch Technology Corp uses its best efforts to research the actual location of each site, FirstSearch Technology Corp does not and can not warrant the accuracy of these sites with regard to exact location and size All authorized users of FirstSearch Technology Corp 's services proceeding are signifying an understanding of FirstSearch Technology Corp 's searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations

Environmental FirstSearch
Site Information Report

Request Date:	02-04-05	**Search Type:**	AREA
Requestor Name:	Matthew Trieber	**Job Number:**	NOR-04-36
Standard:	ASTM		

TARGET ADDRESS: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

Demographics

Sites:	405	**Non-Geocoded:**	182	**Population:**	NA

Radon: OF THE 2 HOMES TESTED, THE AVG. PCI/L LEVEL WAS .8

Site Location

	Degrees (Decimal)	Degrees (Min/Sec)		UTMs
Longitude:	-73.590943	-73:35:27	**Easting:**	619000.336
Latitude:	40.724816	40:43:29	**Northing:**	4508953.13
			Zone:	18

Comment

Comment:NASSAU VETERANS MEMORIAL COLISEUM

Additional Requests/Services

Adjacent ZIP Codes: 1 Mile(s)

ZIP Code	City Name	ST	Dist/Dir	Sel
11530	GARDEN CITY	NY	0.00 --	Y
11549	HEMPSTEAD	NY	0.00 --	Y
11550	HEMPSTEAD	NY	0.30 SW	Y
11554	EAST MEADOW	NY	0.18 NE	Y
11590	WESTBURY	NY	0.66 NE	Y

Services:

	Requested?	Date
Sanborns	No	
Aerial Photographs	No	
Topographical Maps	No	
City Directories	No	
Title Search	No	
Municipal Reports	No	
Online Topos	No	

Environmental FirstSearch
Sites Summary Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

TOTAL: 405 **GEOCODED:** 223 **NON GEOCODED:** 182 **SELECTED:** 62

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Page No.	Map ID
404	*BROWNFIELD*	*FORMER ISLAND/NATIONAL HELICOPTER V00162/VCP*	*NORTH AVENUE GARDEN CITY NY 11530*	*NON GC*	*1*	
405	*BROWNFIELD*	*HEMPSTEAD (LIRR) V00390/VCP*	*HEWLETT STREET HEMPSTEAD NY 11550*	*NON GC*	*1*	
232	ERNS	301994/UNKNOWN	STUART AVE GARDEN CITY NY 11530	NON GC	N/A	
10	*FINDS*	*FUJI PHOTO FILM USA INC - LONG ISL NY0000463257*	*101 JAMES DOOLITTLE BLVD UNIONDALE NY 11553*	*0.00 --*	*2*	*9*
12	*FINDS*	*NORITSU AMERICA - LONG ISLAND MARR NY0001170166*	*101 JAMES DOOLITTLE BLVD UNIONDALE NY 11553*	*0.00 --*	*3*	*9*
13	*FINDS*	*SUNOCO SVC STA NYD000701391*	*1220 FULTON AVE UNIONDALE NY 11553*	*0.00 --*	*4*	*65*
11	*FINDS*	*NATL HEALTH LAB INC NYD987020344*	*51 CHARLES LINDBERGH BLVD UNIONDALE NY 11553*	*0.14 NW*	*5*	*3*
9	FINDS	FREQUENCY ELECTRONICS INC NYD001321611	55 CHARLES LINDBERG DRIVE MITCHELL FIELD NY 11553	0 18 NW	N/A	4
234	FINDS	NASSAU CO CENTRAL UTILI NYD986873693	WESTBURY BLVD UNIONDALE NY 11553	NON GC	N/A	
235	FINDS	AMH DEVELOPMENT CORP NYD981872864	STEWART AVE GARDEN CITY NY 11530	NON GC	N/A	
194	*LUST*	*NASSAU COLISEUM 8702169/CLOSED*	*HEMPSTEAD TURNPIKE UNIONDALE NY 11553*	*0 00 --*	*6*	*35*
195	*LUST*	*NASSAU COLISEUM 8701759/CLOSED*	*HEMPSTEAD TURNPIKE UNIONDALE NY 11553*	*0.00 --*	*7*	*35*
167	*LUST*	*GASCOTT RESIDENCE 0105171/CLOSED 10/31/2002*	*1109 MERILLON STREET UNIONDALE NY 11553*	*0.07 SE*	*8*	*27*
212	*LUST*	*STENNETT RESIDENCE 0010182/CLOSED 12/11/2000*	*68 CUNNINGHAM STREET UNIONDALE NY 11553*	*0.11 SE*	*9*	*43*
192	LUST	LEONARDO RESIDENCE 9901556/CLOSED 06/10/1999	106 WALTON AVENUE UNIONDALE NY 11553	0 21 SE	N/A	31
191	LUST	KELLENBERG MEMORIAL HS 8806265/CLOSED	1400 GLEN CURTIS BLVD UNIONDALE NY 11553	0 26 SE	N/A	49
215	LUST	UNIONDALE FD 9205013/CLOSED 09/16/1992	154 UNIONDALE AVENUE UNIONDALE NY 11553	0 29 SE	N/A	46
169	LUST	HOFSTRA 8905216/CLOSED	FEDERAL COURT BUILDING HEMPSTEAD NY 11549	0 29 SW	N/A	5
170	LUST	HOFSTRA 8802161/CLOSED	ROOSEVELT HALL HEMPSTEAD NY 11550	0 29 SW	N/A	5
171	LUST	HOFSTRA UNIV 8801805/CLOSED	TWIN OAKS BLDG HEMPSTEAD NY 11550	0 29 SW	N/A	5
172	LUST	HOFSTRA UNIVERSITY 8804862/CLOSED	1000 FULTON HEMPSTEAD NY 11550	0 29 SW	N/A	5

Environmental FirstSearch
Sites Summary Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

TOTAL: 405 **GEOCODED:** 223 **NON GEOCODED:** 182 **SELECTED:** 62

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Page No.	Map ID
173	LUST	HOFSTRA UNIVERSITY 8804437/CLOSED	HEMPSTEAD TURNPIKE HEMPSTEAD NY 11550	0 29 SW	N/A	5
174	LUST	HOFSTRA UNIVERSITY 8805289/CLOSED	HEMPSTEAD TURNPIKE HEMPSTEAD NY 11550	0 29 SW	N/A	5
175	LUST	HOFSTRA UNIVERSITY 8911144/CLOSED 03/28/1990	1100 HEMPSTEAD TURNPIKE HEMPSTEAD NY 11550	0 29 SW	N/A	5
176	LUST	HOFSTRA UNIVERSITY 8804265/CLOSED	1100 HEMPSTEAD TPKE UNIONDALE NY 11553	0 29 SW	N/A	5
177	LUST	HOFSTRA UNIVERSITY 8804132/CLOSED	MEMORIAL HIGHWAY UNIONDALE NY 11553	0 29 SW	N/A	5
178	LUST	HOFSTRA UNIVERSITY 8804090/CLOSED	THE PLAYHOUSE UNIONDALE NY 11553	0 29 SW	N/A	5
179	LUST	HOFSTRA UNIVERSITY 8908126/CLOSED	1100 HEMPSTEAD TURNPIKE HEMPSTEAD NY 11550	0 29 SW	N/A	5
180	LUST	HOFSTRA UNIVERSITY 8804358/CLOSED	HEMPSTEAD TPKE HEMPSTEAD NY 11550	0 29 SW	N/A	5
181	LUST	HOFSTRA UNIVERSITY 9206041/CLOSED 11/26/1993	1000 FULTON AVE HEMPSTEAD NY 11550	0 29 SW	N/A	5
182	LUST	HOFSTRA UNIVERSITY 8801012/CLOSED	1100 FULTON AVENUE HEMPSTEAD NY 11550	0 29 SW	N/A	5
183	LUST	HOFSTRA UNIVERSITY 8908238/CLOSED	1100 HEMPSTEAD TURNPIKE HEMPSTEAD NY 11550	0 29 SW	N/A	5
184	LUST	HOFSTRA UNIVERSITY 9008766/CLOSED 02/22/1991	HEMPSTEAD TPKE HEMPSTEAD NY 11550	0 29 SW	N/A	5
185	LUST	HOFSTRA UNIVERSITY 8905605/CLOSED	1100 HEMPSTEAD TURNPIKE HEMPSTEAD NY 11550	0 29 SW	N/A	5
186	LUST	HOFSTRA UNIVERSITY 8805017/CLOSED	HEMPSTEAD TURNPIKE HEMPSTEAD NY 11550	0 29 SW	N/A	5
187	LUST	HOFSTRA UNIVERSITY 8804302/CLOSED	HEMPSTEAD TPKE AT HOUSER HEMPSTEAD NY 11550	0 29 SW	N/A	5
188	LUST	HOFSTRA UNIVERSITY 8800148/CLOSED	1000 FULTON AVENUE HEMPSTEAD NY 11550	0 29 SW	N/A	5
189	LUST	HOFSTRA UNIVERSITY 9206412/CLOSED 01/23/1995	1000 FULTON AVENUE HEMPSTEAD NY 11550	0 29 SW	N/A	5
190	LUST	HOFSTRA UNIVERSITY 8803610/CLOSED	1100 FULTON AVENUE HEMPSTEAD NY 11550	0 29 SW	N/A	5
193	LUST	MITCHELL COMPLEX 9803848/ACTIVE	NASSAU CT DPW BLDG 5 UNIONDALE NY 11553	0 30 NW	N/A	8
202	LUST	NASSAU CTY RIFLE RANGE 9303204/CLOSED 09/22/1993	MITCHELL FIELD UNIONDALE NY 11553	0 30 NW	N/A	8

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TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
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ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Page No.	Map ID
206	LUST	NCDPW 9006841/CLOSED 03/13/1992	MITCHEL PARK RIFEL RANGE UNIONDALE NY 11553	0 30 NW	N/A	8
165	LUST	ALDIS TAUKSIS 9313112/CLOSED 02/07/1994	NCCC PARKING LOT 4 UNIONDALE NY 11530	0 33 NW	N/A	7
196	LUST	NASSAU COMM COLLEGE 8705489/CLOSED	VICTORY BLVD BLDG GARDEN CITY NY 11530	0 33 NW	N/A	7
197	LUST	NASSAU COMM COLLEGE 8707274/CLOSED	NASSAU HALL GARDEN CITY NY 11530	0 33 NW	N/A	7
198	LUST	NASSAU COMM COLLEGE 9504356/CLOSED 10/02/1995	TOWER SERVICE RD UNIONDALE NY 11530	0 33 NW	N/A	7
199	LUST	NASSAU COMMUNITY COLLEGE 8705411/CLOSED	SECURITY OFFICE BLDG 4-01 GARDEN CITY NY 11530	0 33 NW	N/A	7
200	LUST	NASSAU COMMUNITY COLLEGE 8705246/CLOSED	STEWART AVENUE GARDEN CITY NY 11530	0 33 NW	N/A	7
201	LUST	NASSAU COMMUNITY COLLEGE 8705412/CLOSED	NASSAU HALL BLDG 2-087 GARDEN CITY NY 11530	0 33 NW	N/A	7
203	LUST	NC COMM COLLEGE 8705929/CLOSED	BLDG #147 GARDEN CITY NY 11530	0 33 NW	N/A	7
204	LUST	NCDPW 9211832/CLOSED 12/02/1993	DAVIS AVENUE UNIONDALE NY 11553	0 33 NW	N/A	7
205	LUST	NCDPW 9212325/CLOSED 04/02/1993	MITCHEL FIELD DAVIS AVE UNIONDALE NY 11553	0 33 NW	N/A	7
207	LUST	NCDPW 9105559/CLOSED 01/14/1993	DAVIS AVENUE GARDEN CITY NY 11553	0 33 NW	N/A	7
209	LUST	SHELL OIL CO 8708074/CLOSED	1600 HEMPSTEAD TURNPIKE EAST MEADOW NY 11554	0 35 NE	N/A	13
210	LUST	SHELL S/S 8707391/CLOSED	1600 HEMPSTEAD TPKE EAST MEADOW NY 11554	0 35 NE	N/A	13
168	LUST	GETTY 7901091/ACTIVE	HEMPSTEAD TPKE/MERRICK AV EAST MEADOW NY 11554	0 38 NE	N/A	12
211	LUST	SHELL S/S 8808796/CLOSED	HEMPSTEAD TPKE/MERRICK AV EAST MEADOW NY 11554	0 38 NE	N/A	12
166	LUST	FINANCIAL CENTER 9810528/CLOSED 07/08/1999	90 MERRICK AVENUE EAST MEADOW NY 11554	0 42 SE	N/A	11
208	LUST	REALTY ASSET GROUP 9006215/CLOSED 09/26/1990	90 MERRICK AVENUE EAST MEADOW NY 11554	0 42 SE	N/A	11
213	LUST	TEMPLE EMANUEL 9300783/CLOSED 12/09/1993	123 MERRICK AVENUE EAST MEADOW NY 11554	0 46 SE	N/A	45
214	LUST	TEMPLE EMANUEL CHURCH 9800127/CLOSED 05/01/1998	123 MERRICK AVENUE EAST MEADOW NY 11554	0 46 SE	N/A	45

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Sites Summary Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

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398	LUST	BRISTOL 0311303/ACTIVE	2377 CLOVE RD UNIONDALE NY	NON GC	N/A	
399	LUST	HOFSTRA UNIVERSITY 0409120/ACTIVE	BALDWIN COURT UNIONDALE NY	NON GC	N/A	
400	LUST	NASSAU COUNTY 9105310/CLOSED 10/29/1991	7TH STREET EAST MEADOW NY 11554	NON GC	N/A	
401	LUST	NC HAZ WASTE 9106832/CLOSED 01/27/1992	7TH STREET EAST MEADOW NY 11554	NON GC	N/A	
233	NPDES	NY0266949/MINOR	HEMPSTEAD /T/ NY 11530	NON GC	N/A	
367	OTHER	FORMER ISLAND/NATIONAL HELICOPTER V00162/VCP	NORTH AVENUE GARDEN CITY NY 11530	NON GC	N/A	
365	PERMITS	UNIONVALE COMMUNITY RESIDENCE 3-0214914/NSIGPCI	UNIONDALE NY	NON GC	N/A	
366	PERMITS	FRIENDLY S-EAST MEADOW 1-0088650/NSIGPCI	EAST MEADOW NY 11554	NON GC	N/A	
6	*RCRAGN*	*NORITSU AMERICA - LONG ISLAND MARR* *NYR000002352/SGN*	*101 JAMES DOOLITTLE BLVD* *UNIONDALE NY 11553*	*0.00 --*	*10*	*9*
1	*RCRAGN*	*DIANON SYSTEMS INC* *NYR000115410/LGN*	*51 CHARLES LINDBERGH BLVD S* *UNIONDALE NY 11553*	*0.14 NW*	*11*	*3*
3	*RCRAGN*	*LABORATORY CORPORATION OF AMERICA* *NYD987020344/LGN*	*51 CHARLES LINDBERGH BLVD* *UNIONDALE NY 11553*	*0.14 NW*	*11*	*3*
5	*RCRAGN*	*LONG ISLAND POWER AUTH* *NYR000065870/TRANSPORTER*	*333 EARLE OVINGTON BLVD* *UNIONDALE NY 11530*	*0.15 NW*	*12*	*6*
2	RCRAGN	FREQUENCY ELECTRONICS INC NYD001321611/LGN	55 CHARLES LINDBERG DR GARDEN CITY NY 11553	0 18 NW	N/A	4
4	RCRAGN	LOCKHEED MARTIN-UNDERSEAS SYSTEMS NYR000061739/VGN	55 CHARLES LINDBERGH BLVD GARDEN CITY NY 11553	0 18 NW	N/A	4
224	RCRAGN	HEMPSTEAD TOWN OF UNIONDALE TANK NYR000105049/LGN	EASTERN TERMINUS OF UNIONDALE NY 11553	NON GC	N/A	
225	RCRAGN	NYSDOT BIN 3360559 NYR000098079/VGN	GLEN CURTISS BLVD OVER HEMPSTEAD NY 11553	NON GC	N/A	
226	RCRAGN	NASSAU COUNTY TRAFFIC OPERATIONS U NYR000115022/VGN	WEST RD BLDG 17 MITCHEL FIE GARDEN CITY NY 11530	NON GC	N/A	
227	RCRAGN	NYSDOT BIN 1056670 NYR000071902/VGN	RAMP EXS OVER SB CDS1 MEADO GARDEN CITY NY 11530	NON GC	N/A	
228	RCRAGN	NYSDOT BIN 3056639 NYR000097931/VGN	CHARLES LINDBERGH BLVD HEMPSTEAD NY 11530	NON GC	N/A	
7	*RCRANLR*	*FUJI PHOTO FILM USA INC* *NY0000463257/NLR*	*101 JAMES DOOLITTLE BLVD* *UNIONDALE NY 11553*	*0.00 --*	*13*	*9*

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Sites Summary Report

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8	*RCRANLR*	*SUNOCO SERVICE STATION* *NYD000701391/NLR*	*1220 FULTON AVE* *UNIONDALE NY 11553*	*0.00 --*	*14*	*65*
229	RCRANLR	BELL ATLANTIC-NY NYP000935676/NLR	NORTHERN STATE PKWY/NASSAU UNIONDALE NY 00000	NON GC	N/A	
230	RCRANLR	GUTTMAN DANIEL NYR000126375/NLR	907-915 NASSAU RD UNIONDALE NY 11553	NON GC	N/A	
231	RCRANLR	A M H DEVELOPMENT CORP NYD981872864/NLR	STEWART AVE GARDEN CITY NY 11530	NON GC	N/A	
217	SCHOOL	CORNELIUS COURT SCHOOL 6350	NY	0 27 SE	N/A	58
223	SCHOOL	NASSAU COMMUNITY COLLEGE 10621	NY	0 31 NW	N/A	64
219	SCHOOL	HOFSTRA UNIVERSITY 10620	NY	0 33 SW	N/A	60
221	SCHOOL	MITCHEL COLLEGE 6503	NY	0 37 NE	N/A	62
218	SCHOOL	HOFSTRA COLLEGE 6421	NY	0 42 SW	N/A	59
220	SCHOOL	MARIA REGINA HIGH SCHOOL 6479	NY	0 44 SE	N/A	61
222	SCHOOL	NASSAU COMMUNITY COLLEGE 6507	NY	0 48 NW	N/A	63
216	*RELEASES*	*NRC-583726/FIXED*	*1255 HEMPSTEAD TURNPIKE* *UNIONDALE NY 11553*	*0.00 --*	*15*	*35*
402	RELEASES	301994/FIXED FACILITY	STUART AVE GARDEN CITY NY 11530	NON GC	N/A	
403	RELEASES	NRC-715114/MOBILE	129 HOFSTRA UNIVERSITY HEMPSTEAD NY 11549	NON GC	N/A	
15	*STATE*	*MITCHEL FIELD* *HS1025/HAZ SUBST WASTE DISP*	*MITCHEL FIELD AREA* *HEMPSTEAD NY 11055*	*0.30 NW*	*18*	*8*
14	*STATE*	*425 MERRICK AVENUE* *130061*	*425 MERRICK AVENUE* *WESTBURY NY 11590*	*0.47 NE*	*20*	*2*
16	*STATE*	*PUREX MITCHELL FIELD* *130014*	*COMMERCIAL AVENUE* *GARDEN CITY NY 11530*	*0.79 NW*	*22*	*1*
236	*STATE*	*LANDFILL AT UNIONDALE SHOP CTR* *HS1020/HAZ SUBST WASTE DISP*	*JERUSALEM AVE* *UNIONDALE NY 11553*	*NON GC*	*24*	
237	*STATE*	*NEW CASSEL INDUSTRIAL AREA* *130043*	*NO. OF OLD COUNTRY RD., SO.* *NEW CASSEL NY 11590*	*NON GC*	*26*	
51	*SPILLS*	*MARRIOTT HOTEL* *0001783/CLOSED 10/30/2000*	*101 JAMES DOOLITTLE DRIVE* *UNIONDALE NY 11530*	*0.00 --*	*36*	*9*

Environmental FirstSearch
Sites Summary Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

TOTAL: 405 **GEOCODED:** 223 **NON GEOCODED:** 182 **SELECTED:** 62

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Page No.	Map ID
64	*SPILLS*	*NASSAU VETERANS COLISEUM* *0125233/CLOSED 10/22/2001*	*1255 HEMPSTEAD TURNPIKE* *UNIONDALE NY 11553*	*0.00 --*	*37*	*35*
73	*SPILLS*	*R.A SOMMERVILLE* *9312784/CLOSED 01/31/1994*	*HEMPSTEAD TPKE* *UNIONDALE NY 11553*	*0.00 --*	*38*	*35*
88	*SPILLS*	*SUNOCO* *9611206/CLOSED 05/01/1997*	*1220 FULTON AVENUE* *UNIONDALE NY 11553*	*0.00 --*	*39*	*65*
26	*SPILLS*	*CROSS ISLAND SANITATION* *9000483/CLOSED 04/23/1990*	*WALDON AVE & HEMPSTEAD TP* *UNIONDALE NY 11553*	*0.01 SE*	*40*	*22*
35	*SPILLS*	*HEMPSTEAD TURNPIKE* *9510204/CLOSED 11/16/1995*	*AT EARL COVINGTON* *HEMPSTEAD NY 11530*	*0.01 SE*	*41*	*66*
22	*SPILLS*	*CLM CONTRACTORS* *9800864/CLOSED 05/21/1998*	*HEMPSTEAD TPKE/EARLE* *UNIONDALE NY 11549*	*0.01 SW*	*42*	*19*
24	*SPILLS*	*COHEN RESIDENCE* *9409472/CLOSED 10/18/1994*	*19 MANOR PKWY* *UNIONDALE NY 11553*	*0.02 SE*	*43*	*20*
99	*SPILLS*	*UNK* *9306851/CLOSED 02/28/1995*	*18 MARVIN AVE* *UNIONDALE NY 11553*	*0.03 SE*	*44*	*47*
20	*SPILLS*	*CASIMIR RESIDENCE* *9408578/CLOSED 11/20/1994*	*23 GILROY AVE* *UNIONDALE NY 11553*	*0.05 SE*	*45*	*17*
33	*SPILLS*	*GASCOTT RESIDENCE* *0105171/CLOSED 10/31/2002*	*1109 MERILLON STREET* *UNIONDALE NY 11553*	*0.07 SE*	*46*	*27*
70	*SPILLS*	*NEVILLE HANCOCK RESIDENCE* *9306352/CLOSED 01/21/1997*	*68 GILROY AVENUE* *UNIONDALE NY 11553*	*0.11 SE*	*47*	*36*
76	*SPILLS*	*RESIDENCE* *9409815/CLOSED 10/25/1994*	*64 MARVIN AVENUE* *UNIONDALE NY 11553*	*0.11 SE*	*48*	*39*
85	*SPILLS*	*STENNETT RESIDENCE* *0010182/CLOSED 12/11/2000*	*68 CUNNINGHAM STREET* *UNIONDALE NY 11553*	*0.11 SE*	*49*	*43*
27	*SPILLS*	*DREW WATER SERVICES* *9314862/CLOSED 04/13/1994*	*50 CHARLES BLVD* *GARDEN CITY NY 11530*	*0.12 NW*	*50*	*23*
28	*SPILLS*	*E OF PHYSICAL PLANT DEPT* *0325122/CLOSED*	*UNIONDALE AVE/BALDWIN CT* *UNIONDALE NY 11553*	*0 13 SE*	*51*	*24*
46	*SPILLS*	*KAVANAGHT RESIDENCE* *0409810/ACTIVE*	*71 MANOR PARKWAY* *UNIONDALE NY 11553*	*0.14 SE*	*52*	*29*
54	SPILLS	MEADOWBROOK PARKWAY 9510273/CLOSED 11/16/1995	HEMPSTEAD TURNPIKE UNIONDALE NY 11530	0 17 NE	N/A	33
100	SPILLS	UNK 9707956/CLOSED 05/20/1999	MEADOWBROOK PKWY/RTE 24 UNIONDALE NY 11530	0 17 NE	N/A	33
57	SPILLS	MR WAKEFELL 9008264/CLOSED 10/29/1990	1118 GERALD STREET UNIONDALE NY 11553	0 17 SE	N/A	34
106	SPILLS	0209540/CLOSED	1118 GERALD STREET UNIONDALE NY 11553	0 17 SE	N/A	34

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Sites Summary Report

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48	SPILLS	LEONARDO RESIDENCE 9901556/CLOSED 06/10/1999	106 WALTON AVENUE UNIONDALE NY 11553	0 21 SE	N/A	31
79	SPILLS	RESIDENCE 9415238/CLOSED 02/22/1995	1282 MENARD ST UNIONDALE NY 11553	0 22 SE	N/A	40
86	SPILLS	STEVEN D PAUL RESIDENCE 9506678/CLOSED 08/31/1995	116 WALTON AVE UNIONDALE NY 11553	0 22 SE	N/A	44
18	SPILLS	ALLEN RESIDENCE 9401401/CLOSED 05/02/1994	129 CUNNINGHAM AVE UNIONDALE NY 11553	0 23 SE	N/A	15
72	SPILLS	PERSHYN RESIDENCE 9313422/CLOSED 06/20/1994	933 HUNTINGTON PLACE UNIONDALE NY 11553	0 28 SW	N/A	38
97	SPILLS	UNIONDALE FD 9205013/CLOSED 09/16/1992	154 UNIONDALE AVENUE UNIONDALE NY 11553	0 29 SE	N/A	46
108	SPILLS	 9405342/CLOSED 08/24/1994	154 UNIONDALE AVE UNIONDALE NY 11553	0 29 SE	N/A	46
37	SPILLS	HOFSTRA UNIVERSITY 9204248/CLOSED 07/15/1992	HEMPSTEAD TPKE HEMPSTEAD NY 11549	0 29 SW	N/A	5
38	SPILLS	HOFSTRA UNIVERSITY 9206412/CLOSED 01/23/1995	1000 FULTON AVENUE HEMPSTEAD NY 11550	0 29 SW	N/A	5
39	SPILLS	HOFSTRA UNIVERSITY 9008766/CLOSED 02/22/1991	HEMPSTEAD TPKE HEMPSTEAD NY 11550	0 29 SW	N/A	5
40	SPILLS	HOFSTRA UNIVERSITY 9502510/CLOSED 03/10/1998	HEMPSTEAD TURNPIKE HEMPSTEAD NY 11550	0 29 SW	N/A	5
41	SPILLS	HOFSTRA UNIVERSITY 8911144/CLOSED 03/28/1990	1100 HEMPSTEAD TURNPIKE HEMPSTEAD NY 11550	0 29 SW	N/A	5
42	SPILLS	HOFSTRA UNIVERSITY 9206041/CLOSED 11/26/1993	1000 FULTON AVE HEMPSTEAD NY 11550	0 29 SW	N/A	5
43	SPILLS	HOFSTRA UNIVERSITY 9303424/CLOSED 06/22/1993	HEMPSTEAD TURNPIKE HEMPSTEAD NY 11549	0 29 SW	N/A	5
44	SPILLS	HOFSTRA UNIVERSITY 0002762/CLOSED 07/10/2001	HEMPSTEAD TURNPIKE HEMPSTEAD NY 11549	0 29 SW	N/A	5
49	SPILLS	M&B TRUCKING 9502841/CLOSED 06/16/1995	1000 FULTON AVENUE HEMPSTEAD NY 11550	0 29 SW	N/A	5
53	SPILLS	MB TRUCKING COMPANY 9505550/CLOSED 09/07/1995	1000 HEMPSTEAD AVE HEMPSTEAD NY 11550	0 29 SW	N/A	5
55	SPILLS	MITCHELL COMPLEX 9803848/ACTIVE	NASSAU CT DPW BLDG 5 UNIONDALE NY 11553	0 30 NW	N/A	8
63	SPILLS	NASSAU CTY RIFLE RANGE 9303204/CLOSED 09/22/1993	MITCHELL FIELD UNIONDALE NY 11530	0 30 NW	N/A	8
68	SPILLS	NCDPW 9006841/CLOSED 03/13/1992	MITCHEL PARK RIFEL RANGE UNIONDALE NY 11530	0 30 NW	N/A	8

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69	SPILLS	NCDPW 9106336/CLOSED 03/13/1992	CHARLES LINDBERG BLVD GARDEN CITY NY 11530	0 30 NW	N/A	8
102	SPILLS	UNK 9001250/CLOSED 12/24/1990	MITCHELL FIELD HANGER 2 GARDEN CITY NY 11553	0 30 NW	N/A	8
29	SPILLS	EAST RESIDENCE 9510632/CLOSED 11/27/1995	1153 HEMBROKE STREET UNIONDALE NY 11553	0 30 SE	N/A	25
17	SPILLS	ALDIS TAUKSIS 9313112/CLOSED 02/07/1994	NCCC PARKING LOT 4 UNIONDALE NY 11530	0 33 NW	N/A	7
56	SPILLS	MITCHELL FIELD HANGER 6 0125259/CLOSED 03/14/2002	DAVIS AVENUE UNIONDALE NY 11530	0 33 NW	N/A	7
58	SPILLS	NASSAU COMM COLLEGE 9205172/CLOSED 07/17/1997	HEMPSTEAD TPKE HEMPSTEAD NY 11530	0 33 NW	N/A	7
59	SPILLS	NASSAU COMM COLLEGE 9504356/CLOSED 10/02/1995	TOWER SERVICE RD UNIONDALE NY 11530	0 33 NW	N/A	7
60	SPILLS	NASSAU COMMUNITY COLLEGE 9001650/CLOSED 06/29/1990	PERIMETER ROAD GARDEN CITY NY 11530	0 33 NW	N/A	7
61	SPILLS	NASSAU COMMUNITY COLLEGE 9610345/CLOSED 11/19/1996	STEWART AVENUE UNIONDALE NY 11530	0 33 NW	N/A	7
62	SPILLS	NASSAU COUNTY COMMUNITY 9701593/CLOSED 11/26/1997	COLLEGE PERIMITER ROAD UNIONDALE NY 11530	0 33 NW	N/A	7
65	SPILLS	NCDPW 9212325/CLOSED 04/02/1993	MITCHEL FIELD DAVIS AVE UNIONDALE NY 11530	0 33 NW	N/A	7
66	SPILLS	NCDPW 9211832/CLOSED 12/02/1993	DAVIS AVENUE UNIONDALE NY 11530	0 33 NW	N/A	7
67	SPILLS	NCDPW 9105559/CLOSED 01/14/1993	DAVIS AVENUE GARDEN CITY NY 11530	0 33 NW	N/A	7
98	SPILLS	UNK 9416237/CLOSED 03/17/1995	N COMM COLLEGE P/LOT D GARDEN CITY NY 11530	0 33 NW	N/A	7
104	SPILLS	US NAVY 9109107/CLOSED 04/09/1992	MITCHELL FIELD UNIONDALE NY 11530	0 33 NW	N/A	7
36	SPILLS	HIGNEY RESIDENCE 9801436/CLOSED 05/04/1998	184 MARVIN AVENUE UNIONDALE NY 11553	0 34 SE	N/A	28
31	SPILLS	FORMER SHELL STATION 0407017/ACTIVE	1600 HEMPSTEAD EAST MEADOW NY 11553	0 35 NE	N/A	13
81	SPILLS	SHELL CO 9002650/CLOSED 01/16/1991	1600 HEMPSTEAD TPKE EAST MEADOW NY 11554	0 35 NE	N/A	13
82	SPILLS	SHELL S/S 9112567/CLOSED 07/21/1997	1600 HEMPSTEAD TPKE EAST MEADOW NY 11554	0 35 NE	N/A	13
23	*SPILLS*	*COGENERATION PLANT* *9408665/CLOSED 11/29/1994*	*185 CHARLES LINDBERG BLVD* *UNIONDALE NY 11553*	*0.35 -W*	*53*	*10*

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45	*SPILLS*	*ISLAND TRANSPORTATION* *9012709/ACTIVE*	*185 CHARLES LINDBURG BLVD* *UNIONDALE NY 11553*	*0.35 -W*	*54*	*10*
52	*SPILLS*	*MATLOCK* *9010082/CLOSED 12/19/1990*	*185 CHARLES LINDBURGH* *UNIONDALE NY 11553*	*0.35 -W*	*55*	*10*
92	*SPILLS*	*TRIGEN* *0101123/CLOSED 04/30/2001*	*185 CHARLES LINDBERGH BLV* *GARDEN CITY NY 11530*	*0.35 -W*	*56*	*10*
93	*SPILLS*	*TRIGEN ENERGY* *9513371/CLOSED 01/23/1996*	*185 CHARLES LINDBERG BLVD* *UNIONDALE NY 11530*	*0.35 -W*	*57*	*10*
94	*SPILLS*	*TRIGEN NASSAU ENERGY* *9513358/CLOSED 08/13/1996*	*185 CHARLES LINDBURG BLVD* *GARDEN CITY NY 11530*	*0.35 -W*	*58*	*10*
95	*SPILLS*	*TRIGEN NASSAU ENERGY CORP* *9514490/CLOSED 02/16/1996*	*185 CHARLES LINDBERG BLVD* *GARDEN CITY NY 11530*	*0.35 -W*	*59*	*10*
96	*SPILLS*	*TRIGEN-NASSAU ENERGY CORP* *9900517/CLOSED 06/18/1999*	*185 CHARLES LINDBERG BLVD* *GARDEN CITY NY 11530*	*0.35 -W*	*60*	*10*
105	SPILLS	VERONICA WALSH RESIDENCE 0010189/CLOSED 12/11/2000	190 GREEN GROVE AVENUE UNIONDALE NY 11553	0 37 SW	N/A	48
89	SPILLS	SUSPECT GETTY S/S 9402658/CLOSED 06/02/1994	MERRICK AVE & HEMPSTEAD T EAST MEADOW NY 11554	0 38 NE	N/A	12
103	SPILLS	UNK DRIVER 9002749/CLOSED 06/11/1990	MERRICK AVE & HEMPSTEAD EAST MEADOW NY 11554	0 38 NE	N/A	12
30	SPILLS	FINANCIAL CENTER 9810528/CLOSED 07/08/1999	90 MERRICK AVENUE EAST MEADOW NY 11554	0 42 SE	N/A	11
34	SPILLS	HARBULAK/GENTISSI 9412411/CLOSED 12/19/1994	90 MERRICK AVENUE EAST MEADOW NY 11554	0 42 SE	N/A	11
74	SPILLS	REALTY ASSET GROUP 9006215/CLOSED 09/26/1990	90 MERRICK AVENUE EAST MEADOW NY 11554	0 42 SE	N/A	11
75	SPILLS	RECKSON MANAGEMENT 9713102/CLOSED 04/14/1998	90 MERRICK AVENUE EAST MEADOW NY 11554	0 42 SE	N/A	11
71	SPILLS	NOWAK RESIDENCE 9508396/CLOSED 10/10/1995	70 LLOYD COURT EAST MEADOW NY 11554	0 43 NE	N/A	37
32	SPILLS	FRANK VASTAY RESIDENCE 0101685/CLOSED 05/14/2001	1106 BRAXTON STREET UNIONDALE NY 11553	0 44 SE	N/A	26
47	SPILLS	LANZISERA RESIDENCE 0010463/CLOSED 12/18/2000	1182 BRAXTON STREET UNIONDALE NY 11553	0 46 SE	N/A	30
78	SPILLS	RESIDENCE 9910573/CLOSED 02/27/2001	1182 BRAXTON STREET UNIONDALE NY 11553	0 46 SE	N/A	30
87	SPILLS	STROMAN RESIDENCE 9711816/CLOSED 01/30/1998	1182 BRAXTON STREET UNIONDALE NY 11553	0 46 SE	N/A	30
90	SPILLS	TEMPLE EMANUEL 9300783/CLOSED 12/09/1993	123 MERRICK AVENUE EAST MEADOW NY 11554	0 46 SE	N/A	45

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91	SPILLS	TEMPLE EMANUEL CHURCH 9800127/CLOSED 05/01/1998	123 MERRICK AVENUE EAST MEADOW NY 11554	0 46 SE	N/A	45
25	SPILLS	COMMANDER OIL CO 8911757/CLOSED 03/14/1990	185 CALIFORNIA AVENUE HEMPSTEAD NY 11553	0 46 SW	N/A	21
101	SPILLS	UNK 9103454/CLOSED 07/05/1991	425 MERRICK AVENUE WESTBURY NY 11590	0 47 NE	N/A	2
107	SPILLS	0025313/CLOSED 06/06/2001	425 MERRICK AVENUE WESTBURY NY 11554	0 47 NE	N/A	2
84	SPILLS	SORRENTINO RESIDENCE 9415226/CLOSED 07/05/1996	1037 FAYETTE STREET UNIONDALE NY 11553	0 49 SE	N/A	42
19	SPILLS	BUILDING 99 9906648/CLOSED 05/18/2000	DAVIS AVE/CHARLES LINDBUR GARDEN CITY NY 11530	0 50 NW	N/A	16
21	SPILLS	CLARKE RESIDENCE 0008258/CLOSED 06/06/2001	1136 MIDLAND STREET UNIONDALE NY 11553	0 50 SE	N/A	18
50	SPILLS	MACKEY RESIDENCE 9515739/CLOSED 03/08/1996	238 NEW YORK AVENUE UNIONDALE NY 11553	0 50 SE	N/A	32
77	SPILLS	RESIDENCE 9807706/CLOSED 10/07/1998	238 NEW YORK AVENUE UNIONDALE NY 11553	0 50 SE	N/A	32
80	SPILLS	SHEILDS RESIDENCE 9414747/CLOSED 02/10/1995	51 HAMILTON ROAD HEMPSTEAD NY 11550	0 50 SW	N/A	41
83	SPILLS	SHIELDS RESIDENCE 9411922/CLOSED 12/08/1994	51 HAMILTON ROAD HEMPSTEAD NY 11550	0 50 SW	N/A	41
238	SPILLS	4MG-MITCHELLGRD SUB-STN 9802716/CLOSED 12/24/1998	NORTH SIDE STEWART AVENUE UNIONDALE NY	NON GC	N/A	
239	SPILLS	ALL ISLAND TAXI 9012742/CLOSED 03/13/1991	UNIONDALE AVENUE UNIONDALE NY 11553	NON GC	N/A	
240	SPILLS	BRISTOL 0311303/ACTIVE	2377 CLOVE RD UNIONDALE NY	NON GC	N/A	
241	SPILLS	BTWEEN JERUSALM AV &FRONT 9508985/CLOSED 10/23/1995	UNIONDALE AVE NORTHBOUND UNIONDALE NY 11553	NON GC	N/A	
242	SPILLS	COMMANDER OIL 9304268/CLOSED 08/17/2000	COMMERCIAL AVENUE UNIONDALE NY 11553	NON GC	N/A	
243	SPILLS	CORRELL RESIDENCE 9407202/CLOSED 08/30/1994	1288 HANBURG STREET UNIONDALE NY	NON GC	N/A	
244	SPILLS	HOFSTRA UNIVERSITY 0409120/ACTIVE	BALDWIN COURT UNIONDALE NY	NON GC	N/A	
245	SPILLS	LIRR, MITCHELL COMPLEX 0025116/CLOSED 10/20/2000	STEWART AVENUE/CLINTON AV UNIONDALE NY 00000	NON GC	N/A	
246	SPILLS	PETER LAROSA 9500428/CLOSED 04/11/1995	PERIMETER ROAD UNIONDALE NY	NON GC	N/A	

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247	SPILLS	POND AT EISENHOWER PARK 0406439/CLOSED	EISENHOWER PARK UNIONDALE NY	NON GC	N/A	
248	SPILLS	UNK 9404337/CLOSED 01/02/1995	END OF CHESTNUT STREET UNIONDALE NY	NON GC	N/A	
249	SPILLS	UNK 9008812/CLOSED 11/13/1990	MEADOWBROOK PKWY UNIONDALE NY 11553	NON GC	N/A	
250	SPILLS	WAGONEER TRUCKING 9305126/CLOSED 12/23/1993	OAK STREET UNIONDALE NY 11553	NON GC	N/A	
251	SPILLS	9904469/CLOSED 03/28/2000	POWELLS AVE/JERICHO TPKE UNIONDALE NY	NON GC	N/A	
252	SPILLS	9709696/CLOSED 01/26/1999	WEST STREET/FIRST STREET UNIONDALE NY 11553	NON GC	N/A	
253	SPILLS	9615015/CLOSED 05/14/1997	WESTBURY BLVD UNIONDALE NY 11553	NON GC	N/A	
254	SPILLS	COMMAND TERMINAL 9211880/CLOSED 06/28/1994	COMMAND TERMINAL GARDEN CITY NY 11530	NON GC	N/A	
255	SPILLS	DATER CONSTRUCTION 9503761/CLOSED 07/07/1995	OLD COUNTRY ROAD GARDEN CITY NY 11530	NON GC	N/A	
256	SPILLS	GARDEN HUT 9706804/CLOSED 02/25/2002	FRANKLIN AVENUE GARDEN CITY NY 11530	NON GC	N/A	
257	SPILLS	JOSE M CAPELLA RESIDENCE 9204020/CLOSED 07/20/1992	AVENUE C GARDEN CITY NY 11530	NON GC	N/A	
258	SPILLS	LILCO 9105287/CLOSED 08/16/1991	EAST GATE BLVD GARDEN CITY NY 11530	NON GC	N/A	
259	SPILLS	LILCO 9301179/CLOSED 11/09/1993	STEWART AVE GARDEN CITY NY 11530	NON GC	N/A	
260	SPILLS	LIPA 0212271/ACTIVE	COMMERCIAL/STEWART & LIRR GARDEN CITY NY 11530	NON GC	N/A	
261	SPILLS	LIRR 9204896/CLOSED 07/28/2000	ALONG COVERT AVENUE STEWART MANOR NY 11530	NON GC	N/A	
262	SPILLS	LIRR 9714385/CLOSED 04/11/2001	SAINT JAMES STREET GARDEN CITY NY 11530	NON GC	N/A	
263	SPILLS	LISA GIBBS 8909847/CLOSED 01/15/1990	RING ROAD WEST GARDEN CITY NY 11530	NON GC	N/A	
264	SPILLS	MICHAEL GAMBRESKI 9415963/CLOSED 09/20/1995	EARL OVINGTON BLVD UNIONDALE NY 11530	NON GC	N/A	
265	SPILLS	MSBA 8911066/CLOSED 02/26/1990	FRANKLIN AVENUE GARDEN CITY NY 11530	NON GC	N/A	
266	SPILLS	NEW ENGLAND BAKERY 9304720/CLOSED 07/16/1993	EARL QUINTON BLVD UNIONDALE NY 11530	NON GC	N/A	

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267	SPILLS	PERILLO BROS FUEL OIL 9214115/CLOSED 03/25/1993	FERNWOOD TERRACE STEWART MANOR NY 11530	NON GC	N/A	
268	SPILLS	UNK 9103429/CLOSED 06/28/1991	OLD COUNTRY ROAD GARDEN CITY NY 11530	NON GC	N/A	
269	SPILLS	UNK 9303299/CLOSED 06/15/1993	1615 SOUTH STREET GARDEN CITY NY 11530	NON GC	N/A	
270	SPILLS	UNK 9304185/CLOSED 07/06/1993	FRANKLIN AVENUE GARDEN CITY NY 11530	NON GC	N/A	
271	SPILLS	UNK 9009198/CLOSED 11/26/1990	STRATFORD AVE GARDEN CITY NY 11530	NON GC	N/A	
272	SPILLS	9613951/CLOSED 05/21/1997	NEW HYDE PARK ROAD GARDEN CITY NY 11530	NON GC	N/A	
273	SPILLS	APPLE CARTING 8910177/CLOSED 02/27/1990	4549 WHITSON AVENUE HEMPSTEAD NY 11550	NON GC	N/A	
274	SPILLS	DAVID CION 9201865/CLOSED 05/15/1992	CHRISTIE STREET SOUTH HEMPSTEA NY 11550	NON GC	N/A	
275	SPILLS	HEMPSTEAD SUBSTATION 9704770/CLOSED 09/11/1997	WEST COLUMBIA STREET HEMPSTEAD NY 11550	NON GC	N/A	
276	SPILLS	HESS STATION 0025458/CLOSED 01/06/2004	PENINSULA BLVD HEMPSTEAD NY 11550	NON GC	N/A	
277	SPILLS	LICHTENSTEIN RESIDENCE 9413907/CLOSED 02/23/1995	651 PIEDLE PLACE HEMPSTEAD NY 11550	NON GC	N/A	
278	SPILLS	LILCO 9308068/CLOSED 05/16/1997	SUNNYSIDE AVENUE HEMPSTEAD NY 11550	NON GC	N/A	
279	SPILLS	NCDPW 9110173/CLOSED 10/16/1995	JACKSON & WEST COLUMBA HEMPSTEAD NY 11550	NON GC	N/A	
280	SPILLS	SUPHI VILMIRAZ GAS 9912751/CLOSED 03/01/2000	PENINSULA BLVD HEMPSTEAD NY 11550	NON GC	N/A	
281	SPILLS	UNK 9101395/CLOSED 06/19/1991	CHASNER STREET HEMPSTEAD NY 11550	NON GC	N/A	
282	SPILLS	UNK 8912475/CLOSED 04/05/1990	ALDOR ROAD HEMPSTEAD NY 11550	NON GC	N/A	
283	SPILLS	9810075/CLOSED 01/04/1999	FRANKLIN AVENUE HEMPSTEAD NY 11550	NON GC	N/A	
284	SPILLS	9906861/CLOSED 09/17/1999	WHITSON STREET HEMPSTEAD NY 11550	NON GC	N/A	
285	SPILLS	0001548/CLOSED 06/06/2001	HAMPTON ROAD/LONG BEACH R HEMPSTEAD NY 11550	NON GC	N/A	
286	SPILLS	BUILDING 0406957/ACTIVE	RTE 106 EAST MEADOW NY 11554	NON GC	N/A	

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287	SPILLS	DELTA GAS 9914179/CLOSED 12/13/2000	EAST MEADOW AVENUE EAST MEADOW NY 11554	NON GC	N/A	
288	SPILLS	FREDERICK KOEHLER 9103996/CLOSED 07/30/1991	HEMPSTEAD TPKE EAST MEADOW NY 11554	NON GC	N/A	
289	SPILLS	GIFFORD OIL 9103779/CLOSED 07/10/1991	POWERS AVE EAST MEADOW NY 11554	NON GC	N/A	
290	SPILLS	LILCO 9108291/CLOSED 11/05/1991	HEMPSTEAD TPKE EAST MEADOW NY 11554	NON GC	N/A	
291	SPILLS	LILCO 9006079/CLOSED 09/04/1990	245 FILMORE ROAD EAST MEADOW NY 11554	NON GC	N/A	
292	SPILLS	LILCO 8910111/CLOSED 01/31/1990	MORRIS DRIVE EAST MEADOW NY 11554	NON GC	N/A	
293	SPILLS	LILCO 9213306/CLOSED 01/08/2004	OFF FRONT STREET EAST MEADOW NY 11554	NON GC	N/A	
294	SPILLS	MILL RENTAL CORP 9009097/CLOSED 11/20/1990	HEMPSTEAD TPKE EAST MEADOW NY 11554	NON GC	N/A	
295	SPILLS	N&F CARDS & GIFT SHOP 0225304/ACTIVE	615 MERRICK ROAD EAST MEADOW NY 11554	NON GC	N/A	
296	SPILLS	NASSAU COUNTY 9105310/CLOSED 10/29/1991	7TH STREET EAST MEADOW NY 11554	NON GC	N/A	
297	SPILLS	NC HAZ WASTE 9106832/CLOSED 01/27/1992	7TH STREET EAST MEADOW NY 11554	NON GC	N/A	
298	SPILLS	NYS DOT 9111018/CLOSED 09/04/1992	HEMPSTEAD TPKE EAST MEADOW NY 11554	NON GC	N/A	
299	SPILLS	PATHMARK PARKING LOT 9307898/CLOSED 01/12/1994	EAST MEADOW AVENUE EAST MEADOW NY 11554	NON GC	N/A	
300	SPILLS	POLE #1 9613983/CLOSED 07/25/1997	SALSBURY PARK DRIVE EAST MEADOW NY 11554	NON GC	N/A	
301	SPILLS	SPENO PARK 9303722/CLOSED 06/10/1994	EAST MEADOW AVE & RTE 10 EAST MEADOW NY 11554	NON GC	N/A	
302	SPILLS	TRI GEN SUB CONTRACTOR 9111596/CLOSED 04/16/1992	HEMPSTEAD TPKE EAST MEADOW NY 11554	NON GC	N/A	
303	SPILLS	UNK VEHICLE 9212897/CLOSED 03/02/1993	E/O MERRICK AVENUE EAST MEADOW NY 11554	NON GC	N/A	
304	SPILLS	9600605/CLOSED 04/12/1996	KINSINGTON STREET EAST MEADOW NY 11554	NON GC	N/A	
305	SPILLS	9603795/CLOSED 05/21/1997	NORTH JERUSALEM AVENUE EAST MEADOW NY 11554	NON GC	N/A	
306	SPILLS	0325059/CLOSED	PROSPECT AVENUE EAST MEADOW NY 11554	NON GC	N/A	

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307	SPILLS	9811767/CLOSED 01/26/1999	WAGSTAFF DRIVE EAST MEADOW NY 11554	NON GC	N/A	
308	SPILLS	9612296/CLOSED 01/14/1997	NORTH JERUSALEM AVENUE EAST MEADOW NY 11554	NON GC	N/A	
137	*SPILLS80*	*NASSAU COLISEUM* *8701759/CLOSED*	*HEMPSTEAD TURNPIKE* *UNIONDALE NY 11553*	*0.00 --*	*61*	*35*
138	*SPILLS80*	*NASSAU COLISEUM* *8702169/CLOSED*	*HEMPSTEAD TURNPIKE* *UNIONDALE NY 11553*	*0.00 --*	*62*	*35*
133	SPILLS80	KELLENBERG MEMORIAL HS 8806265/CLOSED	1400 GLEN CURTIS BLVD UNIONDALE NY 11553	0 26 SE	N/A	49
136	SPILLS80	LILCO 8803640/CLOSED	151 ARCADIA ROAD UNIONDALE NY 11553	0 29 SE	N/A	51
109	SPILLS80	AMERADA-HESS 8606111/CLOSED	1000 FULTON AVE HOFSTRA HEMPSTEAD NY 11550	0 29 SW	N/A	5
112	SPILLS80	HOFSTRA 8905216/CLOSED	FEDERAL COURT BUILDING HEMPSTEAD NY 11549	0 29 SW	N/A	5
113	SPILLS80	HOFSTRA 8802161/CLOSED	ROOSEVELT HALL HEMPSTEAD NY 11550	0 29 SW	N/A	5
114	SPILLS80	HOFSTRA UNIV 8801805/CLOSED	TWIN OAKS BLDG HEMPSTEAD NY 11550	0 29 SW	N/A	5
115	SPILLS80	HOFSTRA UNIVERSITY 8908238/CLOSED	1100 HEMPSTEAD TURNPIKE HEMPSTEAD NY 11550	0 29 SW	N/A	5
116	SPILLS80	HOFSTRA UNIVERSITY 8804302/CLOSED	HEMPSTEAD TPKE AT HOUSER HEMPSTEAD NY 11550	0 29 SW	N/A	5
117	SPILLS80	HOFSTRA UNIVERSITY 8804437/CLOSED	HEMPSTEAD TURNPIKE HEMPSTEAD NY 11550	0 29 SW	N/A	5
118	SPILLS80	HOFSTRA UNIVERSITY 8908126/CLOSED	1100 HEMPSTEAD TURNPIKE HEMPSTEAD NY 11550	0 29 SW	N/A	5
119	SPILLS80	HOFSTRA UNIVERSITY 8807882/CLOSED	SOUTH HALL HEMPSTEAD NY 11550	0 29 SW	N/A	5
120	SPILLS80	HOFSTRA UNIVERSITY 8804265/CLOSED	1100 HEMPSTEAD TPKE UNIONDALE NY 11553	0 29 SW	N/A	5
121	SPILLS80	HOFSTRA UNIVERSITY 8804132/CLOSED	MEMORIAL HIGHWAY UNIONDALE NY 11553	0 29 SW	N/A	5
122	SPILLS80	HOFSTRA UNIVERSITY 8804090/CLOSED	THE PLAYHOUSE UNIONDALE NY 11553	0 29 SW	N/A	5
123	SPILLS80	HOFSTRA UNIVERSITY 8905605/CLOSED	1100 HEMPSTEAD TURNPIKE HEMPSTEAD NY 11550	0 29 SW	N/A	5
124	SPILLS80	HOFSTRA UNIVERSITY 8804862/CLOSED	1000 FULTON HEMPSTEAD NY 11550	0 29 SW	N/A	5

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125	SPILLS80	HOFSTRA UNIVERSITY 8805017/CLOSED	HEMPSTEAD TURNPIKE HEMPSTEAD NY 11550	0 29 SW	N/A	5
126	SPILLS80	HOFSTRA UNIVERSITY 8805289/CLOSED	HEMPSTEAD TURNPIKE HEMPSTEAD NY 11550	0 29 SW	N/A	5
127	SPILLS80	HOFSTRA UNIVERSITY 8804358/CLOSED	HEMPSTEAD TPKE HEMPSTEAD NY 11550	0 29 SW	N/A	5
128	SPILLS80	HOFSTRA UNIVERSITY 8803610/CLOSED	1100 FULTON AVENUE HEMPSTEAD NY 11550	0 29 SW	N/A	5
129	SPILLS80	HOFSTRA UNIVERSITY 8801012/CLOSED	1100 FULTON AVENUE HEMPSTEAD NY 11550	0 29 SW	N/A	5
130	SPILLS80	HOFSTRA UNIVERSITY 8705956/CLOSED	CALIFORNIA AVE HEMPSTEAD NY 11550	0 29 SW	N/A	5
131	SPILLS80	HOFSTRA UNIVERSITY 8800148/CLOSED	1000 FULTON AVENUE HEMPSTEAD NY 11550	0 29 SW	N/A	5
132	SPILLS80	KAPCO 8909377/CLOSED	CALIFORNIA & RTE 24 HEMPSTEAD NY 11530	0 29 SW	N/A	5
147	SPILLS80	POSS MB TRUCKING 8810065/CLOSED	CALIFORNIA AVE & HEMPSTEA HEMPSTEAD NY 11550	0 29 SW	N/A	5
152	SPILLS80	UNK 8806198/CLOSED	OFF CALIFORNIA AVENUE UNIONDALE NY 11549	0 29 SW	N/A	5
146	SPILLS80	NC DEPT OF PARKS 8707522/CLOSED	NC RIFLE RANGE MITCHELL FIELD NY 11530	0 30 NW	N/A	8
139	SPILLS80	NASSAU COMM COLLEGE 8705489/CLOSED	VICTORY BLVD BLDG GARDEN CITY NY 11530	0 33 NW	N/A	7
140	SPILLS80	NASSAU COMM COLLEGE 8707274/CLOSED	NASSAU HALL GARDEN CITY NY 11530	0 33 NW	N/A	7
141	SPILLS80	NASSAU COMMUNITY COLLEGE 8700085/CLOSED	PHYSICAL PLANT GARDEN CITY PA NY 11530	0 33 NW	N/A	7
142	SPILLS80	NASSAU COMMUNITY COLLEGE 8705411/CLOSED	SECURITY OFFICE BLDG 4-01 GARDEN CITY NY 11530	0 33 NW	N/A	7
143	SPILLS80	NASSAU COMMUNITY COLLEGE 8705412/CLOSED	NASSAU HALL BLDG 2-087 GARDEN CITY NY 11530	0 33 NW	N/A	7
144	SPILLS80	NASSAU COMMUNITY COLLEGE 8705246/CLOSED	STEWART AVENUE GARDEN CITY NY 11530	0 33 NW	N/A	7
145	SPILLS80	NC COMM COLLEGE 8705929/CLOSED	BLDG #147 GARDEN CITY NY 11530	0 33 NW	N/A	7
148	SPILLS80	SHELL OIL CO 8708074/CLOSED	1600 HEMPSTEAD TURNPIKE EAST MEADOW NY 11554	0 35 NE	N/A	13
149	SPILLS80	SHELL S/S 8707391/CLOSED	1600 HEMPSTEAD TPKE EAST MEADOW NY 11554	0 35 NE	N/A	13

Environmental FirstSearch
Sites Summary Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

TOTAL: 405 **GEOCODED:** 223 **NON GEOCODED:** 182 **SELECTED:** 62

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Page No.	Map ID
110	SPILLS80	GENERAL WASTE OIL 8605382/CLOSED	HEMPSTEAD TPKE & MERRICK EAST MEADOW NY 11554	0 38 NE	N/A	12
111	SPILLS80	GETTY 7901091/ACTIVE	HEMPSTEAD TPKE/MERRICK AV EAST MEADOW NY 11554	0 38 NE	N/A	12
150	SPILLS80	SHELL S/S 8808796/CLOSED	HEMPSTEAD TPKE/MERRICK AV EAST MEADOW NY 11554	0 38 NE	N/A	12
151	SPILLS80	UNK 8601591/CLOSED	MERRICK AVE&HEMPSTEAD TPK UNIONDALE NY 11553	0 38 NE	N/A	52
134	SPILLS80	KEN HERMLE 8602224/CLOSED	1049 BRAXTON STREET UNIONDALE NY 11553	0 39 SE	N/A	50
135	SPILLS80	LILCO 8804999/CLOSED	425 MERRICK AVENUE WESTBURY NY 11590	0 47 NE	N/A	2
309	SPILLS80	DELL VALLEY CHINESE CHURC 8903444/CLOSED	HEMPSTEAD TURNPIKE UNIONDALE NY	NON GC	N/A	
310	SPILLS80	HULIO DIAZ 8806569/CLOSED	JERUSALEM AVE UNIONDALE NY 11553	NON GC	N/A	
311	SPILLS80	LILCO 8903221/CLOSED	STEWART AVENUE UNIONDALE NY 11553	NON GC	N/A	
312	SPILLS80	TOWER SHELL TOWING 8905568/CLOSED	HEMPSTEAD TPKE UNIONDALE NY 11553	NON GC	N/A	
313	SPILLS80	UNIONDALE W D 8607670/CLOSED	OAK STREET WELL #4 UNIONDALE NY	NON GC	N/A	
314	SPILLS80	UNK 8601600/CLOSED	HEMPSTEAD TURNPIKE UNIONDALE NY 11553	NON GC	N/A	
315	SPILLS80	8202074/UNKNOWN	JERUSALEUM AVE UNIONDALE NY 11553	NON GC	N/A	
316	SPILLS80	BEAR FOOT GRASS LAWN SERV 8901009/CLOSED	EAST GATE BLVD WESTBURY NY 11530	NON GC	N/A	
317	SPILLS80	CENTRAL WINDOW CLEANING 8800041/CLOSED	FRANKLIN AVENUE GARDEN CITY NY 11530	NON GC	N/A	
318	SPILLS80	GARDEN CITY TRANSPORT CO 8907061/CLOSED	OLD COUNTRY ROAD GARDEN CITY NY 11530	NON GC	N/A	
319	SPILLS80	I T.C 8603401/CLOSED	HEMPSTEAD TPKE & WEST RD HEMPSTEAD NY 11530	NON GC	N/A	
320	SPILLS80	L&L TRUCKING 8803119/CLOSED	FRANKLYN AVENUE GARDEN CITY NY 11530	NON GC	N/A	
321	SPILLS80	LEWIS OIL 8710194/CLOSED	170 BACKVILLE ROAD GARDEN CITY NY 11530	NON GC	N/A	
322	SPILLS80	LILCO 8500252/CLOSED	STEWART AVENUE GARDEN CITY NY 11530	NON GC	N/A	

Environmental FirstSearch
Sites Summary Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

TOTAL: 405 **GEOCODED:** 223 **NON GEOCODED:** 182 **SELECTED:** 62

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Page No.	Map ID
323	SPILLS80	LILCO 8806084/CLOSED	ENDO DRIVE GARDEN CITY NY 11530	NON GC	N/A	
324	SPILLS80	LILCO 8904023/CLOSED	STEWART AVENUE GARDEN CITY NY 11530	NON GC	N/A	
325	SPILLS80	LILCO 8701673/CLOSED	STEWART AVENUE GARDEN CITY NY 11530	NON GC	N/A	
326	SPILLS80	LILCO 8900329/CLOSED	STEWART AVENUE GARDEN CITY NY 11530	NON GC	N/A	
327	SPILLS80	MB TRUCKING 8806473/CLOSED	ALUMNI HALL GARDEN CITY NY 11530	NON GC	N/A	
328	SPILLS80	POSS METROP SUBURBAN BUS 8901665/CLOSED	RING ROAD GARDEN CITY NY 11530	NON GC	N/A	
329	SPILLS80	TEXACO & HOWARD PHILLIPS 8606228/CLOSED	STEWART AVE ROOSEVELT F GARDEN CITY NY 11530	NON GC	N/A	
330	SPILLS80	UNK 8703407/CLOSED	FRANKLIN AVE GARDEN CITY NY 11530	NON GC	N/A	
331	SPILLS80	UNK 8707587/CLOSED	RAILROAD AVENUE GARDEN CITY NY 11530	NON GC	N/A	
332	SPILLS80	UNK 8807424/CLOSED	NEW HYDE PARK ROAD GARDEN CITY NY 11530	NON GC	N/A	
333	SPILLS80	UNK 8908788/CLOSED	STEWART AVENUE GARDEN CITY NY 11530	NON GC	N/A	
334	SPILLS80	UNK 8909402/CLOSED	SOUTH STREET GARDEN CITY NY 11530	NON GC	N/A	
335	SPILLS80	8001766/UNKNOWN	GARDEN CITY NY 11530	NON GC	N/A	
336	SPILLS80	LILCO 8602286/CLOSED	OAK AVENUE HEMPSTEAD NY 11550	NON GC	N/A	
337	SPILLS80	LILCO 8606322/CLOSED	BALDWIN ROAD HEMPSTEAD NY 11550	NON GC	N/A	
338	SPILLS80	LILCO 8808590/CLOSED	MAY STREET SOUTH HEMPSTEA NY 11550	NON GC	N/A	
339	SPILLS80	LILCO 8903796/CLOSED	LONG BEACH ROAD SOUTH HEMPSTEA NY 11550	NON GC	N/A	
340	SPILLS80	LILCO 8605392/CLOSED	ST PAULS ROAD HEMPSTEAD NY 11550	NON GC	N/A	
341	SPILLS80	LILCO 8701396/CLOSED	NASSAU ROAD POLE #88 UNIONDALE NY 11550	NON GC	N/A	
342	SPILLS80	LILCO 8701128/CLOSED	ATLANTIC AVENUE HEMPSTEAD NY 11550	NON GC	N/A	

Environmental FirstSearch
Sites Summary Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

TOTAL: 405 **GEOCODED:** 223 **NON GEOCODED:** 182 **SELECTED:** 62

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Page No.	Map ID
343	SPILLS80	LILCO 8905046/CLOSED	GREENWICH AVENUE HEMPSTEAD NY 11550	NON GC	N/A	
344	SPILLS80	RICHARD KELLER 8908108/CLOSED	HILTON AND CATHEDRAL HEMPSTEAD NY 11550	NON GC	N/A	
345	SPILLS80	8001186/UNKNOWN	HEMPSTEAD NY 11550	NON GC	N/A	
346	SPILLS80	LILCO 8700820/CLOSED	BELLMORE ROAD EAST MEADOW NY 11554	NON GC	N/A	
347	SPILLS80	LILCO 8900238/CLOSED	HEMPSTEAD TURNPIKE EAST MEADOW NY 11554	NON GC	N/A	
348	SPILLS80	LILCO 8908643/CLOSED	DIAMOND STREET EAST MEADOW NY 11554	NON GC	N/A	
349	SPILLS80	LILCO 8401195/CLOSED	RTE 106 EAST MEADOW NY 11554	NON GC	N/A	
350	SPILLS80	LILCO 8705249/CLOSED	NO SIDE OF HEMPSTEAD TPKE EAST MEADOW NY 11554	NON GC	N/A	
351	SPILLS80	NORTHEASTERN/VANTAGE 8906816/CLOSED	EAST MEADOW AVENUE EAST MEADOW NY 11554	NON GC	N/A	
352	SPILLS80	RITE WAY EXP TRUCKING CO 8903567/CLOSED	HEMPSTEAD TURNPIKE EAST MEADOW NY 11554	NON GC	N/A	
353	SPILLS80	SPEEDWAY TRUCKING 8602182/CLOSED	HEMPSTEAD TPKE EAST MEADOW NY 11554	NON GC	N/A	
354	SPILLS80	TOWN OF SANITATION 8800142/CLOSED	MCCLELLAN STREET EAST MEADOW NY 11554	NON GC	N/A	
355	SPILLS80	UNK 8707416/CLOSED	MARGARET DRIVE EAST MEADOW NY 11554	NON GC	N/A	
356	SPILLS80	UNK 8710353/CLOSED	NEWBRIDGE AVENUE EAST MEADOW NY 11554	NON GC	N/A	
357	SPILLS80	UNK 8606033/CLOSED	COREY LANE EAST MEADOW NY 11554	NON GC	N/A	
358	SPILLS80	UNK 8900350/CLOSED	EAST MEADOW AVENUE EAST MEADOW NY 11554	NON GC	N/A	
359	SPILLS80	8001731/UNKNOWN	EAST MEADOW NY 11554	NON GC	N/A	
360	*SWL*	*WASTE RECOVERY ENTERPRISE* *4-39W01/ACTIVE*	*VALLEY VIEW ROAD* *UNIONDALE NY*	*NON GC*	*63*	
361	*SWL*	*GARDEN CITY SLF (V)* *1-30S02/INACTIVE*	*351 STEWART AVE* *GARDEN CITY NY 11530*	*NON GC*	*64*	
362	*SWL*	*NEW YORK DEPOT CORP* *1-30W16R/ACTIVE*	*PO BOX 7126* *GARDEN CITY NY 11530*	*NON GC*	*65*	

Environmental FirstSearch
Sites Summary Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

TOTAL: 405 **GEOCODED:** 223 **NON GEOCODED:** 182 **SELECTED:** 62

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Page No.	Map ID
363	*SWL*	*CONROC RECYCLING* *1-30T27R/ACTIVE*	*55 NEW STREET* *HEMPSTEAD NY 11550*	*NON GC*	*66*	
364	*SWL*	*VILLAGE OF HEMPSTEAD T.S.* *1-30T93/ACTIVE*	*99 NICHOLS COURT* *HEMPSTEAD NY 11550*	*NON GC*	*67*	
153	*UST*	*CONFIDENTIAL* *NAFM-4095/NC FIRE MARSHAL*	*1255 HEMPSTEAD TPKE* *UNIONDALE NY 11553*	*0.00 --*	*68*	*35*
155	*UST*	*CONFIDENTIAL* *NAFM-5285/NC FIRE MARSHAL*	*1220 FULTON AVE* *UNIONDALE NY 11553*	*0.00 --*	*68*	*65*
160	*UST*	*CONFIDENTIAL* *NAFM-3479/NC FIRE MARSHAL*	*101 JAMES DOOLITTLE BLVD* *UNIONDALE NY 11553*	*0.00 --*	*68*	*9*
163	*UST*	*TEN MINUTE OIL CHANGE* *N-056501*	*1156 HEMPSTEAD TURNPIKE* *UNIONDALE NY 11553*	*0.01 SE*	*69*	*57*
164	*UST*	*ULTRA LUBE II, INC* *N-057505/ACTIVE FACILITY*	*1156 HEMPSTEAD TNPK* *UNIONDALE NY 11553*	*0.01 SE*	*71*	*57*
156	*UST*	*CONFIDENTIAL* *NAFM-3035/NC FIRE MARSHAL*	*100 QUENTIN ROOSEVELT BLV* *EAST GARDEN CI NY 11553*	*0.02 NW*	*73*	*53*
162	*UST*	*LABORATORY CORP OF AMER* *N-001330/AST*	*51 CHARLES LINDBERGH BLVD* *UNIONDALE NY 11530*	*0.14 NW*	*73*	*3*
154	*UST*	*CONFIDENTIAL* *NAFM-4313/NC FIRE MARSHAL*	*333 EARLE OVINGTON BLVD* *UNIONDALE NY 11530*	*0.15 NW*	*74*	*6*
157	UST	CONFIDENTIAL NAFM-2714/NC FIRE MARSHAL	1010 HEMPSTEAD TPKE UNIONDALE NY 11549	0 17 SW	N/A	54
161	UST	FREQUENCY ELECTRONICS N-000025/ACTIVE FACILITY	55 CHARLES LINDBERGH BLVD UNIONDALE NY 11553	0 18 NW	N/A	4
159	UST	CONFIDENTIAL NAFM-1263/NC FIRE MARSHAL	1342 MENARD ST UNIONDALE NY 11553	0 22 SE	N/A	56
158	UST	CONFIDENTIAL NAFM-3152/NC FIRE MARSHAL	1400 GLENN CURTISS BLVD UNIONDALE NY 11553	0 24 SE	N/A	55
368	UST	CONFIDENTIAL NAFM-5483/NC FIRE MARSHAL	BLDG 35 OAK ST UNIONDALE NY 11553	NON GC	N/A	
369	UST	CONFIDENTIAL NAFM-2266/NC FIRE MARSHAL	SMITH ST UNIONDALE NY 11553	NON GC	N/A	
370	UST	CONFIDENTIAL NAFM-2258/NC FIRE MARSHAL	OAK ST UNIONDALE NY 11553	NON GC	N/A	
371	UST	CONFIDENTIAL NAFM-5517/NC FIRE MARSHAL	HEMPSTEAD BLVD UNIONDALE NY 11553	NON GC	N/A	
372	UST	CONFIDENTIAL NAFM-4093/NC FIRE MARSHAL	CHARLES LINDBERGH BLVD EAST GARDEN CI NY 11553	NON GC	N/A	
373	UST	CONFIDENTIAL NAFM-4068/NC FIRE MARSHAL	DAVIS AVE UNIONDALE NY 11553	NON GC	N/A	

Environmental FirstSearch
Sites Summary Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

TOTAL: 405 **GEOCODED:** 223 **NON GEOCODED:** 182 **SELECTED:** 62

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Page No.	Map ID
374	UST	CONFIDENTIAL NAFM-2189/NC FIRE MARSHAL	BALDWIN CT UNIONDALE NY 11553	NON GC	N/A	
375	UST	CONFIDENTIAL NAFM-2392/NC FIRE MARSHAL	315/377 OAK ST UNIONDALE NY 11553	NON GC	N/A	
376	UST	CONFIDENTIAL NAFM-5918/NC FIRE MARSHAL	STEWART AVE GARDEN CITY NY 11530	NON GC	N/A	
377	UST	CONFIDENTIAL NAFM-1640/NC FIRE MARSHAL	CHERRY VALLEY AVE GARDEN CITY NY 11530	NON GC	N/A	
378	UST	CONFIDENTIAL NAFM-76/NC FIRE MARSHAL	SOUTH AVE GARDEN CITY NY 11530	NON GC	N/A	
379	UST	CONFIDENTIAL NAFM-1629/NC FIRE MARSHAL	CHERRY VALLEY AVE GARDEN CITY NY 11530	NON GC	N/A	
380	UST	CONFIDENTIAL NAFM-1631/NC FIRE MARSHAL	PLAZA RD GARDEN CITY NY 11530	NON GC	N/A	
381	UST	CONFIDENTIAL NAFM-4096/NC FIRE MARSHAL	DAVIS AVE EAST GARDEN CI NY 11530	NON GC	N/A	
382	UST	CONFIDENTIAL NAFM-4034/NC FIRE MARSHAL	435 NORTH AVE EAST GARDEN CI NY 11530	NON GC	N/A	
383	UST	CONFIDENTIAL NAFM-3286/NC FIRE MARSHAL	COMMERCIAL AVE GARDEN CITY NY 11530	NON GC	N/A	
384	UST	CONFIDENTIAL NAFM-2967/NC FIRE MARSHAL	MEADOW ST GARDEN CITY NY 11530	NON GC	N/A	
385	UST	CONFIDENTIAL NAFM-75/NC FIRE MARSHAL	SOUTH AVE GARDEN CITY NY 11530	NON GC	N/A	
386	UST	CONFIDENTIAL NAFM-5228/NC FIRE MARSHAL	STEWART AVE GARDEN CITY NY 11530	NON GC	N/A	
387	UST	CONFIDENTIAL NAFM-5654/NC FIRE MARSHAL	COMMERCIAL AVE GARDEN CITY NY 11530	NON GC	N/A	
388	UST	ROOS FLD W D WELL #7 N-001570/ACTIVE FACILITY	DIBBLEE BLVD GARDEN CITY NY 11530	NON GC	N/A	
389	UST	CONFIDENTIAL NAFM-2215/NC FIRE MARSHAL	MERRICK AVE EAST MEADOW NY 11554	NON GC	N/A	
390	UST	CONFIDENTIAL NAFM-1425/NC FIRE MARSHAL	OAKFIELD AVE WANTAGH NY 11554	NON GC	N/A	
391	UST	CONFIDENTIAL NAFM-1326/NC FIRE MARSHAL	HEMPSTEAD TPKE EAST MEADOW NY 11554	NON GC	N/A	
392	UST	CONFIDENTIAL NAFM-2617/NC FIRE MARSHAL	7TH ST EAST MEADOW NY 11554	NON GC	N/A	
393	UST	CONFIDENTIAL NAFM-4085/NC FIRE MARSHAL	HEMPSTEAD TPKE EAST MEADOW NY 11554	NON GC	N/A	

Environmental FirstSearch
Sites Summary Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

TOTAL: 405 **GEOCODED:** 223 **NON GEOCODED:** 182 **SELECTED:** 62

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Page No.	Map ID
394	UST	CONFIDENTIAL NAFM-4056/NC FIRE MARSHAL	HEMPSTEAD TPKE EAST MEADOW NY 11554	NON GC	N/A	
395	UST	CONFIDENTIAL NAFM-4055/NC FIRE MARSHAL	HEMPSTEAD TPKE EAST MEADOW NY 11554	NON GC	N/A	
396	UST	CONFIDENTIAL NAFM-2945/NC FIRE MARSHAL	HEMPSTEAD TPKE EAST MEADOW NY 11554	NON GC	N/A	
397	UST	CONFIDENTIAL NAFM-4049/NC FIRE MARSHAL	PERIMETER RD EAST GARDEN CI NY 11554	NON GC	N/A	

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

BF

SEARCH ID: 404 **DIST/DIR:** NON GC **MAP ID:**

NAME:	FORMER ISLAND/NATIONAL HELICOPTER SITE	**REV:**	3/17/04
ADDRESS:	NORTH AVENUE	**ID1:**	V00162
	GARDEN CITY NY 11530	**ID2:**	
	NASSAU	**STATUS:**	VCP
CONTACT:		**PHONE:**	

SITE INFORMATION
REGION: 1
TYPE OF SITE: VCP - (VCP) OLD VOLUNTARY PROGRAM

BF

SEARCH ID: 405 **DIST/DIR:** NON GC **MAP ID:**

NAME:	HEMPSTEAD (LIRR)	**REV:**	3/17/04
ADDRESS:	HEWLETT STREET	**ID1:**	V00390
	HEMPSTEAD NY 11550	**ID2:**	
	NASSAU	**STATUS:**	VCP
CONTACT:		**PHONE:**	

SITE INFORMATION
REGION: 1
TYPE OF SITE: VCP - (VCP) OLD VOLUNTARY PROGRAM

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

FINDS SITE

SEARCH ID: 10 **DIST/DIR:** 0.00 -- **MAP ID:** 9

NAME: FUJI PHOTO FILM USA INC - LONG ISLAND MARRIOTT CTR
ADDRESS: 101 JAMES DOOLITTLE BLVD
UNIONDALE NY 11553
Nassau
CONTACT:

REV:
ID1: NY0000463257
ID2:
STATUS:
PHONE:

RCRIS : NY0000463257
PCS :
AFS/AIRS :
SSTS :
CERCLIS :
NCDB :
ENF DOCKET :
CONTR LIST :
CRIM DOCKET :
FFIS :
CICIS :
STATE :
PADS :
TRIS :
D&B :
UNKNOWN :

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

FINDS SITE

SEARCH ID: 12 **DIST/DIR:** 0.00 -- **MAP ID:** 9

NAME: NORITSU AMERICA - LONG ISLAND MARRIOTT
ADDRESS: 101 JAMES DOOLITTLE BLVD SKYLITE STE
UNIONDALE NY 11553
Nassau
CONTACT:

REV:
ID1: NY0001170166
ID2:
STATUS:
PHONE:

RCRIS : NYR000002352
PCS :
AFS/AIRS :
SSTS :
CERCLIS :
NCDB :
ENF DOCKET :
CONTR LIST :
CRIM DOCKET :
FFIS :
CICIS :
STATE :
PADS :
TRIS :
D&B :
UNKNOWN :

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

FINDS SITE

SEARCH ID: 13 **DIST/DIR:** 0 00 -- **MAP ID:** 65

NAME: SUNOCO SVC STA
ADDRESS: 1220 FULTON AVE
UNIONDALE NY 11553
Nassau
CONTACT:

REV:
ID1: NYD000701391
ID2:
STATUS:
PHONE:

RCRIS : NYD000701391
PCS :
AFS/AIRS :
SSTS :
CERCLIS :
NCDB :
ENF DOCKET :
CONTR LIST :
CRIM DOCKET :
FFIS :
CICIS :
STATE :
PADS :
TRIS :
D&B :
UNKNOWN :

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

FINDS SITE

SEARCH ID: 11 **DIST/DIR:** 0.14 NW **MAP ID:** 3

NAME: NATL HEALTH LAB INC
ADDRESS: 51 CHARLES LINDBERGH BLVD
UNIONDALE NY 11553
Nassau
CONTACT:

REV:
ID1: NYD987020344
ID2:
STATUS:
PHONE:

RCRIS : NYD987020344
PCS :
AFS/AIRS :
SSTS :
CERCLIS :
NCDB :
ENF DOCKET :
CONTR LIST :
CRIM DOCKET :
FFIS :
CICIS :
STATE :
PADS :
TRIS :
D&B :
UNKNOWN :

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 194 **DIST/DIR:** 0.00 -- **MAP ID:** 35

NAME: NASSAU COLISEUM
ADDRESS: HEMPSTEAD TURNPIKE
UNIONDALE NY
NASSAU
CONTACT:

REV: 1/1/02
ID1: 8702169
ID2:
STATUS: CLOSED
PHONE:

SPILL DATE: 06/16/87
SPILL TIME: 14:55

DATE REPORTED: 06/16/87
TIME REPORTED: 15:00

MATERIAL SPILLED: DIESEL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 0 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: TANK TEST FAILURE
RESOURCE AFFECTED: GROUNDWATER
WATERBODY AFFECTED:
SOURCE OF SPILL: COMMERCIAL/INDUSTRIAL
REPORTED BY: TANK TESTER
CALLER REMARKS:
1-1K FAILED AT - 511

REGION: 1 **UST TRUST?** TRUE

SPILL INVESTIGATOR: O NEILL FD
SPILL CONTACT: **TELEPHONE:**

SPILLER: NASSAU COLISEUM
ADDRESS: HEMPSTEAD TURNPIKE
UNIONDALE , NY
SPILLER CONTACT: **TELEPHONE:** (516) 794-9300

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 02/24/99
DOES CLEAN UP MEET STANDARDS? TRUE
DEC REMARKS:
02/24/89: TANK WAS REMOVED 5 YDS OF CONT SOIL WAS STOCKPILED DISPOSAL LETTER WAS WITHOUT SPILL # WAS ISSUED SEE SPILL 87-1759 FOR FIELD REPORTS

CLOSE DATE: 02/24/89
PENALTY RECOMMENDED? FALSE

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 195 **DIST/DIR:** 0.00 -- **MAP ID:** 35

NAME: NASSAU COLISEUM
ADDRESS: HEMPSTEAD TURNPIKE
UNIONDALE NY
NASSAU
CONTACT:

REV: 1/1/02
ID1: 8701759
ID2:
STATUS: CLOSED
PHONE:

SPILL DATE: 06/01/87
SPILL TIME: 12:00

DATE REPORTED: 06/02/87
TIME REPORTED: 09:38

MATERIAL SPILLED: DIESEL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 0 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: TANK FAILURE
RESOURCE AFFECTED: GROUNDWATER
WATERBODY AFFECTED:
SOURCE OF SPILL: NON-COMMERCIAL/INSTITUTIONAL
REPORTED BY: TANK TESTER
CALLER REMARKS:
1K FAILED AT - 068

REGION: 1 **UST TRUST?** TRUE

SPILL INVESTIGATOR: O NEILL FD
SPILL CONTACT: **TELEPHONE:**

SPILLER: NASSAU COLISEUM
ADDRESS: HEMPSTEAD TURNPIKE
UNIONDALE , NY
SPILLER CONTACT: **TELEPHONE:**

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 02/24/99
DOES CLEAN UP MEET STANDARDS? TRUE
DEC REMARKS:
/ / : NO RETESTING SCHEDULED AS OF YET 02/24/89: TANK WAS REMOVED 5 YDS OF CONT SOIL STOCKPILED DISPOSAL LETTER WITHOUT SPILL NUMBER WAS ISSUED SEE SPILL 87-2169

CLOSE DATE: 02/24/89
PENALTY RECOMMENDED? FALSE

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

RCRA GENERATOR SITE

SEARCH ID: 1 **DIST/DIR:** 0.14 NW **MAP ID:** 3

NAME:	DIANON SYSTEMS INC	**REV:**	7/8/03
ADDRESS:	51 CHARLES LINDBERGH BLVD STE	**ID1:**	NYR000115410
	UNIONDALE NY 11553	**ID2:**	
	NASSAU	**STATUS:**	LGN
CONTACT:	BRUCE KERR	**PHONE:**	5167944646

DETAILS NOT AVAILABLE

RCRA GENERATOR SITE

SEARCH ID: 3 **DIST/DIR:** 0.14 NW **MAP ID:** 3

NAME:	LABORATORY CORPORATION OF AMERICA	**REV:**	12/10/04
ADDRESS:	51 CHARLES LINDBERGH BLVD	**ID1:**	NYD987020344
	UNIONDALE NY 11553	**ID2:**	
	NASSAU	**STATUS:**	LGN
CONTACT:		**PHONE:**	

SITE INFORMATION

CONTACT INFORMATION: CLAUDIA ASHBY
SAFETY OFFICER
51 CHARLES LINDBERGH BLVD
UNIONDALE NY 11553

PHONE: 5167944646

UNIVERSE TYPE:

LQG - LARGE QUANTITY GENERATORS: GENERATES MORE THAN 1000 KG/MONTH OF HAZARDOUS WASTE

SIC INFORMATION:

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 167 **DIST/DIR:** 0.07 SE **MAP ID:** 27

NAME: GASCOTT RESIDENCE
ADDRESS: 1109 MERILLON STREET
UNIONDALE NY
NASSAU
CONTACT:

REV: 8/27/04
ID1: 0105171
ID2:
STATUS: CLOSED 10/31/2002
PHONE:

SPILL DATE: 08/13/01
SPILL TIME: 08:30

DATE REPORTED: 08/13/01
TIME REPORTED: 11:01

MATERIAL SPILLED: #2 FUEL OIL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 200 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: TANK FAILURE
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: PRIVATE DWELLING
REPORTED BY: OTHER
CALLER REMARKS:
UNDERGROUND 550 TANK, APPEARS TO HAVE GOTTEN A LEAK

REGION: 1 **UST TRUST?** FALSE

SPILL INVESTIGATOR: BRIAN D
SPILL CONTACT: MRS GASCOTT **TELEPHONE:** (516) 489-3788

SPILLER: GASCOTT RESIDENCE
ADDRESS: 1109 MERILLON STREET
UNIONDALE . NY
SPILLER CONTACT: MRS GASCOTT **TELEPHONE:** (516) 489-3788

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 09/07/01
DOES CLEAN UP MEET STANDARDS? FALSE
DEC REMARKS:
DELIVERY 8/3-200, 250 UPON DEPARTURE, CHECKS LINE 1 1/2 200 TANK FAILURE. NO ODOR,TEMP DRUM INSURANCE CO WILL COVER IT GAVE 3 COMPANIES TO CALL. JENNIFER GASCOTT HOMEOWNER WILL CALL TO SCHEDULE APPT

CLOSE DATE: / /
PENALTY RECOMMENDED? FALSE

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 212 **DIST/DIR:** 0.11 SE **MAP ID:** 43

NAME: STENNETT RESIDENCE
ADDRESS: 68 CUNNINGHAM STREET
UNIONDALE NY
NASSAU
CONTACT:

REV: 8/27/04
ID1: 0010182
ID2:
STATUS: CLOSED 12/11/2000
PHONE:

SPILL DATE: 12/10/00
SPILL TIME: 21:00

DATE REPORTED: 12/11/00
TIME REPORTED: 08:10

MATERIAL SPILLED: #2 FUEL OIL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 10 G
AMOUNT RECOVERED: 10 G

CAUSE OF SPILL: TANK FAILURE
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: PRIVATE DWELLING
REPORTED BY: AFFECTED PERSONS
CALLER REMARKS:
PIN HOLE IN TANK CAUSED SPILL ALL CLEANED UP REGION REP PAGED TWICE NO CALL BACK

REGION: 1 **UST TRUST?** FALSE

SPILL INVESTIGATOR: NONE
SPILL CONTACT: MR STENNETT **TELEPHONE:** (516) 505-8210

SPILLER: STENNETT RESIDENCE
ADDRESS: 68 CUNNINGHAM STREET
UNIONDALE , NY
SPILLER CONTACT: MR STENNETT **TELEPHONE:** (516) 505-8210

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 12/12/00
DOES CLEAN UP MEET STANDARDS? TRUE
DEC REMARKS:
12/11/00 TELECON WITH BOB CARMAN: THE 275 AST WAS IN BASEMENT FUEL OIL LEAKED ONTO CONCRETE FLOOR. NO DRAINS OR SUMP INVOLVED SPEEDI DRI PLACED, SWEPT AND TAKEN BACK TO YARD FOR DISPOSAL.

CLOSE DATE: 12/11/00
PENALTY RECOMMENDED? FALSE

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

RCRA GENERATOR SITE

SEARCH ID: 6 **DIST/DIR:** 0 00 -- **MAP ID:** 9

NAME:	NORITSU AMERICA - LONG ISLAND MARRIOTT	**REV:**	12/10/04
ADDRESS:	101 JAMES DOOLITTLE BLVD	**ID1:**	NYR000002352
	UNIONDALE NY 11553	**ID2:**	
	NASSAU	**STATUS:**	SGN
CONTACT:	CALVERT SCHLICK	**PHONE:**	2018089898

SITE INFORMATION

CONTACT INFORMATION: CALVERT SCHLICK
SUPV
336 RTE 46 E
FAIRFIELD NJ 07004

PHONE: 2018089898

UNIVERSE TYPE:

SQG - SMALL QUANTITY GENERATOR: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

SIC INFORMATION:

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

RCRA GENERATOR SITE

SEARCH ID: 5 **DIST/DIR:** 0.15 NW **MAP ID:** 6

NAME:	LONG ISLAND POWER AUTH	**REV:**	12/10/04
ADDRESS:	333 EARLE OVINGTON BLVD	**ID1:**	NYR000065870
	UNIONDALE NY 11553	**ID2:**	
	NASSAU	**STATUS:**	TRANSPORTER
CONTACT:	ROBERT TEETZ	**PHONE:**	5163916133

SITE INFORMATION

CONTACT INFORMATION:
ROBERT TEETZ
MGR ENV ENG
445 BROADHOLLOW RD
MELVILLE NY 11747

PHONE: 5163916133

UNIVERSE TYPE:

TRANSPORT - TRANSPORTER

SIC INFORMATION:

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

RCRA NLR SITE

SEARCH ID: 7 **DIST/DIR:** 0.00 -- **MAP ID:** 9

NAME:	FUJI PHOTO FILM USA INC	**REV:**	12/10/04
ADDRESS:	101 JAMES DOOLITTLE BLVD	**ID1:**	NY0000463257
	UNIONDALE NY 11553	**ID2:**	
	NASSAU	**STATUS:**	NLR
CONTACT:		**PHONE:**	

SITE INFORMATION

CONTACT INFORMATION: DONNA CHING
ENV COORD
555 TAXTER RD
ELMSFORD NY 10523

PHONE: 9147898570

UNIVERSE TYPE:

SIC INFORMATION:

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

RCRA NLR SITE

SEARCH ID: 8 **DIST/DIR:** 0 00 -- **MAP ID:** 65

NAME:	SUNOCO SERVICE STATION	**REV:**	12/10/04
ADDRESS:	1220 FULTON AVE	**ID1:**	NYD000701391
	UNIONDALE NY 11553	**ID2:**	
	NASSAU	**STATUS:**	NLR
CONTACT:		**PHONE:**	

SITE INFORMATION

CONTACT INFORMATION: HOWARD ALGEO
MAINT MANAGER
1220 FULTON AVE
UNIONDALE NY 11553

PHONE: 2156888200

UNIVERSE TYPE:

SIC INFORMATION:

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

RELEASES (AIR/WATER)

SEARCH ID: 216 **DIST/DIR:** 0.00 -- **MAP ID:** 35

NAME:		REV:	12/31/01
ADDRESS:	1255 HEMPSTEAD TURNPIKE	ID1:	NRC-583726
	UNIONDALE NY	ID2:	
	NASSAU	STATUS:	FIXED
CONTACT:	SCOTT MULLEN	PHONE:	5167949372

SITE INFORMATION

THIS INFORMATION WAS OBTAINED FROM THE NATIONAL RESPONSE CENTER

DATE RECEIVED:	19-OCT-01	DATE COMPLETE:	19-OCT-01
CALL TAKER:	LMJ2870	CALL TYPE:	INC

RESPONSIBLE PARTY: SCOTT MULLEN
PHONE #1: 5167949372 PRIMARY
PHONE #2:
PHONE #3:

RESPONSIBLE COMPANY: NASSAU VETERANS MEMORIAL COLISEUM
ORGANIZATION TYPE: PRIVATE ENTERPRISE

ADDRESS: 1255 HEMPSTEAD TURNPIKE
UNIONDALE NY 11553

INITIALLY REPORTED BY:
PHONE:

INIT REPORTED COMPANY:
ON BEHALF OF: Y
SOURCE: TELEPHONE

INCIDENT INFORMATION

INCIDENT DESCRIPTION: THE MATERIAL RELEASED FROM A COOLING SYSTEM DUE TO A PIPE BREAKAGE

INCIDENT TYPE:	FIXED	INCIDENT CAUSE:	EQUIPMENT FAILURE
INCIDENT DATE:	19-OCT-01	INCIDENT DATE DESC:	DISCOVERED
DISTANCE FROM CITY:		DISTANCE UNITS:	
DIRECTION FROM CITY:		LOCATION SECTION:	
LOCATION TOWNSHIP:		LOCATION RANGE:	
WMD CHEM FLAG:	F	RAD FLAG:	F
BIO FLAG:	F	OIL FLAG:	
POTENTIAL_FLAG:		AMT MATERIAL FLAG:	
MILITARY ORG FLAG:		LNG FLAG:	

AIRCRAFT TYPE:		AIRCRAFT MODEL:	
AIRCRAFT ID:		AIRCRAFT FUEL CAPACITY:	
AIRCRAFT FUEL CAPACITY UNITS:		AIRCRAFT FUEL ON BOARD:	
AIRCRAFT FUEL ON BOARD UNITS:		AIRCRAFT SPOT NUMBER:	
AIRCRAFT HANGER:		AIRCRAFT RUNWAY NUM:	

- Continued on next page -

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

RELEASES (AIR/WATER)

SEARCH ID: 216 **DIST/DIR:** 0.00 -- **MAP ID:** 35

NAME:		REV:	12/31/01
ADDRESS:	1255 HEMPSTEAD TURNPIKE	ID1:	NRC-583726
	UNIONDALE NY	ID2:	
	NASSAU	STATUS:	FIXED
CONTACT:	SCOTT MULLEN	PHONE:	5167949372

ROAD MILE MARKER:		BUILDING ID:	
TYPE OF FIXED OBJECT:	OTHER	POWER GEN FACILITY:	N
GENERATING CAPACITY:		TYPE OF FUEL:	
NPDES:		NPDES COMPLIANCE:	U
PIPELINE TYPE:		DOT REGULATED:	U
PIPELINE ABOVE GROUND:	ABOVE	EXPOSED UNDERWATER:	N
PIPELINE COVERED:	U	RAILROAD HOTLINE:	
GRADE CROSSING:	N	LOCATION SUBDIVISION:	
RAILROAD MILEPOST:		TYPE VEHICLE INVOLVED:	
CROSSING DEVICE TYPE:		DEVICE OPERATIONAL:	Y
DOT CROSSING NUMBER:		BRAKE FAILURE:	N
TANK ABOVE GROUND:	ABOVE	TRANSPORTABLE CONTAINER:	U
TANK REGULATED:	U	TANK REGULATED BY:	
TANK ID:		CAPACITY OF TANK:	
CAPACITY OF TANK UNITS:		ACTUAL AMOUNT:	
ACTUAL AMOUNT UNITS:		PLATFORM RIG NAME:	
PLATFORM LETTER:		LOCATION AREA ID:	
LOCATION BLOCK ID:			
DESCRIPTION OF TANK:			
OCSG NUMBER:		OCSP NUMBER:	
STATE LEASE NUMBER:		PIER DOCK NUMBER:	
BERTH SLIP NUMBER:		CONTIN RELEASE TYPE:	
INITIAL CONT RELEASE NUM:		CONT RELEASE PERMIT:	
ALLISION:	N	TYPE OF STRUCTURE:	
STRUCTURE NAME:		STRUCT OPERATIONAL:	U
AIRBAG DEPLOYED:		DATE NORMAL SERVICE:	
SERVICE DISRUPT TIME:		SERVICE DISRUPT UNITS:	
TRANSIT BUS FLAG:		CR BEGIN DATE:	
CR END DATE:		CR CHANGE DATE:	
FIRE INVOLVED:	N	FIRE EXTINGUISHED:	U
ANY EVACUATIONS:	N	NUMBER EVACUATED:	
WHO EVACUATED:		RADIUS OF EVACUATION:	
ANY INJURIES:	N	NUMBER INJURED:	
NUMBER HOSPITALIZED:		ANY FATALITIES:	N
NUMBER FATALITIES:		ANY DAMAGES:	N
DAMAGE AMOUNT:		AIR CORRIDOR CLOSED:	N
AIR CORRIDOR DESC:		AIR CLOSURE TIME:	
WATERWAY CLOSED:	N	WATERWAY DESC:	
WATERWAY CLOSURE TIME:		ROAD CLOSED:	N
ROAD DESC:		ROAD CLOSURE TIME:	
CLOSURE DIRECTION:		MAJOR ARTERY:	N
TRACK CLOSED:	N	TRACK DESC:	
TRACK CLOSURE TIME:		MEDIA INTEREST:	NONE

- Continued on next page -

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

RELEASES (AIR/WATER)

SEARCH ID: 216 **DIST/DIR:** 0.00 -- **MAP ID:** 35

NAME:		**REV:**	12/31/01
ADDRESS:	1255 HEMPSTEAD TURNPIKE	**ID1:**	NRC-583726
	UNIONDALE NY	**ID2:**	
	NASSAU	**STATUS:**	FIXED
CONTACT:	SCOTT MULLEN	**PHONE:**	5167949372

MEDIUM DESC:	WATER	**ADDTL MEDIUM INFO:**	SANITARY SEWER
BODY OF WATER:	SANITARY SEWER		**TRIBUTARY OF:** LOCAL
PUBLIC OWNED TREATMENT PLANT			
NEAREST RIVER MILE MARK:		**RELEASE SECURED:**	Y
EST DUR OF RELEASE:		**RELEASE RATE:**	
TRACK CLOSE DIR:		**ST AGENCY ON SCENE:**	
ST AGENCY RPT NUM:	NO REPORT #	**OTHER AGENCY NOTIFIED:**	
WEATHER CONDITIONS:	CLEAR	**AIR TEMPERATURE:**	70
WIND SPEED:		**WIND DIRECTION:**	
WATER SUPPLY CONTAM:	N	**SHEEN SIZE:**	
SHEEN COLOR:		**DIR OF SHEEN TRAVEL:**	
SHEEN ODOR DESCRIPTION:		**WAVE CONDITION:**	
CURRENT SPEED:		**CURRENT DIRECTION:**	
WATER TEMPERATURE:			

DESC OF REMEDIAL ACTION: AREA WAS WASHED

EMPL FATALITY:		**PASS FATALITY:**	
COMMUNITY IMPACT:	N	**WIND SPEED UNITS:**	
EMPLOYEE INJURIES:		**PASSENGER INJURIES:**	
OCCUPANT FATALITY:		**CURRENT SPEED UNITS:**	
ROAD CLOSURE UNITS:		**TRACK CLOSURE UNITS:**	
SHEEN SIZE UNITS:		**STATE AGENCY NOTIFIED:**	POTW, NASSAU COUNTY
FED AGENCY NOTIFIED:		**STRUCTURE NAME:**	
TYPE OF STRUCTURE:		**ALLISION:**	
STRUCTURE OPERATIONAL:		**NEAREST RIVER MILE MARK:**	
SHEEN SIZE LENGTH:	N	**SHEEN SIZE LENGTH UNITS:**	
SHEEN SIZE WIDTH:		**SHEEN SIZE WIDTH UNITS:**	
OFFSHORE:		**DURATION UNIT:**	
RELEASE RATE UNIT:		**RELEASE RATE RATE:**	

ADDITIONAL INFO: THE CALLER HAD NO ADDITIONAL INFORMATION

MATERIAL INFORMATION

CHRIS CODE:	EGL	**CASE NUMBER:**	000107-21-1
UN NUMBER:		**REACHED WATER:**	YES
NAME OF MATERIAL:	ETHYLENE GLYCOL		
AMOUNT OF MATERIAL:	700 GALLON(S)		
AMOUNT IN WATER:	700 GALLON(S)		

OTHER MATERIAL INFORMATION

MOBILE DETAILS INFORMATION

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SITE

SEARCH ID: 15 **DIST/DIR:** 0.30 NW **MAP ID:** 8

NAME:	MITCHEL FIELD	**REV:**	10/16/01
ADDRESS:	MITCHEL FIELD AREA	**ID1:**	HS1025
	HEMPSTEAD NY 11055	**ID2:**	NYD991292004
	Nassau	**STATUS:**	HAZ SUBST WASTE DISP
CONTACT:		**PHONE:**	

SITE INFORMATION

SITE TYPE: 1B - LEAKING TANKS, DRUMS, LAGOONS, OTHER CONTAINERS

OPENED:	1940	**CLOSED:**	1970
REGION:	1	**COMPLETED:**	U - UNKNOWN
REGISTRY:	N - NO	**REG SITE ID:**	N - NO
HRS SCORE:	U - UNKNOWN	**HRS DATE:**	U - UNKNOWN
RCRA:	U - UNKNOWN	**ACRES:**	1500
QUADRANGLE:	U - UNKNOWN		

OWNER: C - COUNTY
NASSAU COUNTY
1 WEST STREET MINEOLA, NY 11501

PHONE: U - UNKNOWN

OPERATOR: C - COUNTY
SAME
SAME

PHONE: SAME

DOES A THREAT TO THE ENVIRONMENT OR PUBLIC HEALTH EXIST:

E/P - ENVIRONMENT AND PUBLIC HEALTH

DESCRIBE THE THREAT POSED BY THE DISPOSED HAZARDOUS SUBSTANCE:

Groundwater quality seriously impaired which is affecting water supply wells which can be consumed by the public It contributes to the overall deterioration of water quality in the County

DESCRIBE THE SITE:

Site was an airfield during World War II Air Craft maintenance occurred on the site as well as the storage of large quantities of bulk chemicals Waste and various chemicals were disposed of on site A sewage treatment plant was also sited in the area which discharged to groundwater Wartime chemicals and ordinance were also potentially on the site during its use as an airfield The federal government sold the area to Nassau County during the late 1960 s and 70 s Nassau County has been developing the site since the late 1970 s and throughout the 1980 s Repeated reports of illegal disposal of materials in recharge basins around the County Jail facility and the removal and covering up of contaminated soils connected with recent construction at the jail

HAZARDOUS SUBSTANCE DISPOSED:

various chemicals and wastes from the WW2 era, potential wartime chemicals and ordinance

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Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SITE

SEARCH ID: 15 **DIST/DIR:** 0 30 NW **MAP ID:** 8

NAME:	MITCHEL FIELD	**REV:**	10/16/01
ADDRESS:	MITCHEL FIELD AREA	**ID1:**	HS1025
	HEMPSTEAD NY 11055	**ID2:**	NYD991292004
	Nassau	**STATUS:**	HAZ SUBST WASTE DISP
CONTACT:		**PHONE:**	

VOCS:	Y - YES	**SEMI VOCS:**	Y - YES
PCBS:	N - NO	**PESTICIDES:**	N - NO
METALS:	Y - YES	**ASBESTOS:**	U - UNKNOWN

SELECTED ANALYTICAL INFORMATION

AIR:

GROUNDWATER: All data available at Nassau Co DOH

SURFACE WATER:

SEDIMENT:

SURFACE SOIL:

SUBSURFACE SOIL:

WASTE:

LEACHATE:

EPTOXICITY:

TCLP:

SITE IMPACT DATA- AFFECTED MEDIA

SURFACE WATER:	U - UNKNOWN	**SURFACE WATER CLASS:**	U - UNKNOWN
GROUNDWATER:	Y - YES	**GROUNDWATER CLASS:**	SoleSource
DRINKING WATER:	Y - YES	**ACTIVE DW SUPPLY:**	U - UNKNOWN
HAZ SUBSTANCE EXPOSED:	U - UNKNOWN	**AMBIENT AIR CONTAM:**	U - UNKNOWN
CONTROLLED SITE ACCESS:	N - NO	**FISH/WILD MORTALITY:**	U - UNKNOWN
THREAT OF DIRECT CONTACT:	U - UNKNOWN		

SITE IMPACT DATA

SURFACE WATER: Mitchel Creek runs through the site

GROUNDWATER: 25 feet; flows south/southwest

DRINKING WATER: 500 feet

FISH OR WILD LIFE MORTALITY:

BUILDING: onsite

REG AGENCIES INVOLVED: EPA. NYSDEC, NASSAU CO DOH, NASSAU CO DPW

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SITE

SEARCH ID: 14 **DIST/DIR:** 0 47 NE **MAP ID:** 2

NAME:	425 MERRICK AVENUE	**REV:**	7/1/04
ADDRESS:	425 MERRICK AVENUE	**ID1:**	130061
	NEW CASSEL NY 11590	**ID2:**	
	NASSAU	**STATUS:**	
CONTACT:		**PHONE:**	

SITE INFORMATION

CLASS CODE:	2	**REGION:**	1
SIZE (ACRES):	2		

SITE TYPE:

OPEN DUMP:		**STRUCTURE:**	X
LAGOON:		**LANDFILL:**	
POND:			

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER(S) NAME:	MEADOWBROOK REALTY COMPANY
CURRENT OWNER(S) ADDRESS:	5 ARIAL WAY SYOSSET NY 11791
OPERATOR(S) DURING DISPOSAL:	NEW YORK UNIVERSITY LABS
OPERATOR(S) ADDRESS:	425 MERRICK AVENUE NEW CASSEL NY 11590

HAZARDOUS WASTE DISPOSAL PERIOD: unknown TO 1990

SITE DESCRIPTION:
This site was formerly operated by New York University (NYU) as a research facility (Aerospace Energetics Laboratory, Fluidized Bed Combustion Research Facility, Antonio Ferri Laboratories, etc) After NYU vacated the property in August 1990, it was discovered that 200 300 containers ranging in size from 1 to 55 gallons, were situated at various locations throughout the property, including at least 150 55 gallon drums. stockpiled in a partially fenced storage area Under the order from Nassau County, the owner inventoried, consolidated, and properly disposed the containerized wastes off site Follow up investigation of stained soils indicate significant contamination by PCBs (up to 2,670 ppm in a test pit sample) and 1.2 Dichlorobenzene (up to 900 ppb in a test pit sample) These same constituents were found at high levels in samples taken from the consolidated wastes prior to disposal A Consent Order was signed by the Potentially Responsible Parties (PRPs) with the NYSDEC to conduct an Interim Remedial Measures (IRM) program for the site in March 1997 The site investigation and IRM have been completed A proposed remedial action plan (PRAP) has been prepared by the NYSDEC and a public meeting to present the PRAP was conducted by NYSDEC and NYSDOH on February 25, 2002

CONFIRMED HAZARDOUS WASTE DISPOSAL:	**QUANTITY:**
PCBs (B007 Waste)	unknown
1,2 dichlorobenzene (F002/U070 Waste)	unknown
Methylene chloride (F001/U080 Waste)	unknown

ANALYTICAL DATA AVAILABLE FOR

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SITE

SEARCH ID: 14 **DIST/DIR:** 0 47 NE **MAP ID:** 2

NAME: 425 MERRICK AVENUE
ADDRESS: 425 MERRICK AVENUE
NEW CASSEL NY 11590
NASSAU
CONTACT:

REV: 7/1/04
ID1: 130061
ID2:
STATUS:
PHONE:

GROUNDWATER:
AIR:
SOIL: X

SURFACE WATER:
SEDIMENT:

APPLICABLE STANDARDS EXCEEDED FOR
GROUNDWATER:
AIR:

SURFACE WATER:
DRINKING WATER:

GEOTECHNICAL INFORMATION
SOIL/ROCK TYPE: SAND
DEPTH TO GROUNDWATER: RANGE: 10 TO 15 FEET

LEGAL ACTION
TYPE: CONSENT ORDER IRM
STATUS: OS

REMEDIATION
PROPOSED:
ACTIVE:

DESIGN
COMPLETE X

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Impact on the sole source aquifer is likely due to very high levels of PCBs detected in soils on site, relatively shallow water table, and the sandy nature of the soil

ASSESSMENT OF HEALTH PROBLEMS:
All structures have been demolished and removed from the site PCB and mercury contaminated soil has been effectively removed from the site Any residual concentrations of contaminants that may exist at the site are either of inconsequential amounts or are sufficiently deep to prevent any significant threat to human health Groundwater on site is contaminated at levels slightly above groundwater standards but contaminants do not appear to have migrated off site Public water serves the immediate area

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SITE

SEARCH ID: 16 **DIST/DIR:** 0 79 NW **MAP ID:** 1

NAME: PUREX MITCHELL FIELD
ADDRESS: COMMERCIAL AVENUE
GARDEN CITY NY 11530
NASSAU
CONTACT:

REV: 10/1/04
ID1: 130014
ID2: NYD170009000
STATUS:
PHONE:

SITE INFORMATION

CLASS CODE: 4
SIZE (ACRES): 0 5
REGION: 1

SITE TYPE:
OPEN DUMP:
LAGOON:
POND:
STRUCTURE: X
LANDFILL:

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: COUNTY OF NASSAU
CURRENT OWNER(S) ADDRESS: COUNTY CENTER
MINEOLA NY 11501

OPERATOR(S) DURING DISPOSAL: PUREX CORPORATION
OPERATOR(S) ADDRESS: 41 GLEN COVE ROAD
GREENVALE NY 11548

HAZARDOUS WASTE DISPOSAL PERIOD: 1955 TO 1977

SITE DESCRIPTION:
This site was used by an industrial facility for chemical distribution It is now a county owned property on which a MTA / Long Island bus garage is located Chlorinated solvents from the former chemical distribution facility have formed a contaminant plume in the groundwater within the area of the site A groundwater treatment system utilizing air stripping has been operating for the past ten years and has processed over 3 billion gallons of water Contamination removals exceed 130,000 pounds of contaminants On December 31, 2002, the Nassau County DPW will assume operation and maintenance of the remedial system Operation of the remedial system must continue until the clean up criteria of the 1985 Consent Judgment is achieved The results of a soil sampling program in 1992 indicated that the soil clean up objectives had been met and that further soil flushing was discontinued In May 2000, additional work was agreed to that will further enhance groundwater extraction capability and ultimately decrease the time required to complete the groundwater remediation Costs expended to date, for design. construction. and operation. have totaled approximately 30 million dollars

CONFIRMED HAZARDOUS WASTE DISPOSAL:
Chlorinated Solvents (FOO1) (FOO1)

QUANTITY:
unknown

ANALYTICAL DATA AVAILABLE FOR
GROUNDWATER: X
SURFACE WATER:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SITE

SEARCH ID: 16 **DIST/DIR:** 0.79 NW **MAP ID:** 1

NAME:	PUREX MITCHELL FIELD	**REV:**	10/1/04
ADDRESS:	COMMERCIAL AVENUE	**ID1:**	130014
	GARDEN CITY NY 11530	**ID2:**	NYD170009000
	NASSAU	**STATUS:**	
CONTACT:		**PHONE:**	

AIR:		**SEDIMENT:**	
SOIL:	X		

APPLICABLE STANDARDS EXCEEDED FOR

GROUNDWATER:	X	**SURFACE WATER:**	
AIR:		**DRINKING WATER:**	X

GEOTECHNICAL INFORMATION

SOIL/ROCK TYPE:	SAND
DEPTH TO GROUNDWATER:	RANGE: 15 TO 20 FEET

LEGAL ACTION

TYPE:	AG CONSENT ORDER
STATUS:	OS

REMEDIATION

PROPOSED:		**DESIGN**	
ACTIVE:	X	**COMPLETE**	

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
The remediation included the installation of a slurry wall, air strippers, recovery wells, and the placement of recirculation piping in the source area

ASSESSMENT OF HEALTH PROBLEMS:
Groundwater is the sole source of drinking water in the area The area is served by public drinking water which is routinely tested to check compliance with drinking water standards Public drinking water supply wells are 2250 feet south southwest of the original contamination site These supply wells are only used during periods of high demand in summer, and are treated with carbon filters to remove volatile organic compounds It is unknown whether this contamination is attributable to this site On site soils are remediated, eliminating the potential for exposure

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SITE

SEARCH ID: 236 **DIST/DIR:** NON GC **MAP ID:**

NAME:	LANDFILL AT UNIONDALE SHOP CTR	**REV:**	10/16/01
ADDRESS:	JERUSALEM AVE	**ID1:**	HS1020
	UNIONDALE NY 11553	**ID2:**	NONE
	Nassau	**STATUS:**	HAZ SUBST WASTE DISP
CONTACT:		**PHONE:**	

SITE INFORMATION

SITE TYPE: 4 - CONSTRUCTION ANS DEMOLITION DEBRIS SITE

OPENED:	1930	**CLOSED:**	1975
REGION:	1	**COMPLETED:**	OTHER
REGISTRY:	N - NO	**REG SITE ID:**	N - NO
HRS SCORE:	23 1	**HRS DATE:**	9/1990
RCRA:	N - NO	**ACRES:**	10 7
QUADRANGLE:	U - UNKNOWN		

OWNER: P - PRIVATE OR PUBLIC HEALTH
UNIONDALE REALTY ASSOCIATES
U

PHONE: U - UNKNOWN

OPERATOR: P - PRIVATE OR PUBLIC HEALTH
SAME
U - UNKNOWN

PHONE: U - UNKNOWN

DOES A THREAT TO THE ENVIRONMENT OR PUBLIC HEALTH EXIST:

E - ENVIRONMENT

DESCRIBE THE THREAT POSED BY THE DISPOSED HAZARDOUS SUBSTANCE:

Groundwater quality within the fill was characterized to be slightly tainted and exceeded class GA groundwater standards but there are no public supply wells downgradient of the site

DESCRIBE THE SITE:

Site is 10 7 acres of which approximately 5 5 acres is unlined landfilled area Site operated from 1930 to 1962 as a concrete mixing facility and sand mining operation Also operated as a bowling alley complex from 1962 to 1973 Site operated filling operations around 1960 to 1975 Site accepted C&D debris; alleged acceptance of gasoline, hospital waste, paint thinners, and misc domestic wastes The fill extends to a depth of 50 ft

HAZARDOUS SUBSTANCE DISPOSED:

Chrlorobenzene, benzene, barium, xylene, chromium, chlorobenzene, lead, benzene, aroclor, and trace amounts of asbestos

VOCS:	Y - YES	**SEMI VOCS:**	Y - YES
PCBS:	Y - YES	**PESTICIDES:**	Y - YES

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SITE

SEARCH ID: 236 **DIST/DIR:** NON GC **MAP ID:**

NAME: LANDFILL AT UNIONDALE SHOP CTR
ADDRESS: JERUSALEM AVE
UNIONDALE NY 11553
Nassau
CONTACT:

REV: 10/16/01
ID1: HS1020
ID2: NONE
STATUS: HAZ SUBST WASTE DISP
PHONE:

METALS: Y - YES **ASBESTOS:** Y - YES

SELECTED ANALYTICAL INFORMATION

AIR:

GROUNDWATER: Chlorobenzene 24 ppb, Benzene 26 ppb

SURFACE WATER:

SEDIMENT:

SURFACE SOIL:

SUBSURFACE SOIL: Barium 243 ug/kg, Xylene 140 ug/kg, Chromium 15 1 ug/kg, Chlorobenzene 16 ug/kg, Lead 445 ug/kg, Benzene 26 ug/kg, Aroclor 1000 ug/kg

WASTE:

LEACHATE:

EPTOXICITY:

TCLP:

SITE IMPACT DATA- AFFECTED MEDIA

SURFACE WATER:	N - NO	**SURFACE WATER CLASS:**	U - UNKNOWN
GROUNDWATER:	Y - YES	**GROUNDWATER CLASS:**	Sole
DRINKING WATER:	U - UNKNOWN	**ACTIVE DW SUPPLY:**	U - UNKNOWN
HAZ SUBSTANCE EXPOSED:	U - UNKNOWN	**AMBIENT AIR CONTAM:**	U - UNKNOWN
CONTROLLED SITE ACCESS:	U - UNKNOWN	**FISH/WILD MORTALITY:**	N - NO
THREAT OF DIRECT CONTACT:	U - UNKNOWN		

SITE IMPACT DATA

SURFACE WATER: 200 ft East-Southeast

GROUNDWATER: 16 ft. flowing south-southeast

DRINKING WATER: 1100 ft. north-northwest

FISH OR WILD LIFE MORTALITY:
BUILDING: Onsite

REG AGENCIES INVOLVED: NYSDEC, NASSAU COUNTY DEPT OF HEALTH

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SITE

SEARCH ID: 237 **DIST/DIR:** NON GC **MAP ID:**

NAME: NEW CASSEL INDUSTRIAL AREA
ADDRESS: NO OF OLD COUNTRY RD , SO OF RAILROAD TRACKS
NEW CASSEL NY 11590
NASSAU
CONTACT:

REV: 05/20/99
ID1: 130043
ID2: NYD001095363
STATUS:
PHONE:

CLASS CODE: D3 **REGION:** 1 **ESTIMATED SIZE:** 170 ACRES

SITE TYPE:
OPEN DUMP:
LAGOON:
POND:
STRUCTURE: X
LANDFILL:

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Avon Press
CURRENT OWNER(S) ADDRESS: 25 Kinkel Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Laka Industry Inc
CURRENT OWNER(S) ADDRESS: 62 Kinkel Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: IMC Magnetics Corporation
CURRENT OWNER(S) ADDRESS: 570 Main Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: American Motors
CURRENT OWNER(S) ADDRESS: 110 State Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Blen-Cal Electronics
CURRENT OWNER(S) ADDRESS: 700 Summa Avenue
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Sam Ton Salvage
CURRENT OWNER(S) ADDRESS: 299 Main Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Advance Food Service Equipment
CURRENT OWNER(S) ADDRESS: 750 Summa Avenue
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: All-Shield Electronics
CURRENT OWNER(S) ADDRESS: 45 Bond Street
Westbury NY 11590

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TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SITE

SEARCH ID: 237 **DIST/DIR:** NON GC **MAP ID:**

NAME:	NEW CASSEL INDUSTRIAL AREA	**REV:**	05/20/99
ADDRESS:	NO OF OLD COUNTRY RD . SO OF RAILROAD TRACKS	**ID1:**	130043
	NEW CASSEL NY 11590	**ID2:**	NYD001095363
	NASSAU	**STATUS:**	
CONTACT:		**PHONE:**	

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Anthonsen s All Metal Products
CURRENT OWNER(S) ADDRESS: 630-640 Main Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Applied Fluids
CURRENT OWNER(S) ADDRESS: 770 Main Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Arkwin Industries, Inc
CURRENT OWNER(S) ADDRESS: 686 Main Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Kwik-Eeze Corporation
CURRENT OWNER(S) ADDRESS: 54 Brooklyn Avenue
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Supreme Metal Fabricators
CURRENT OWNER(S) ADDRESS: 776-790 Summa Avenue
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Metpar Steel
CURRENT OWNER(S) ADDRESS: 97 State Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Continental Extrusion
CURRENT OWNER(S) ADDRESS: 751 Summa Avenue
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Parafuse Corporation
CURRENT OWNER(S) ADDRESS: 65 Kinkel Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Tapemakers Inc
CURRENT OWNER(S) ADDRESS: 48 Urban Avenue
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Bilt-Rite Steel Buck Corp

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TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SITE

SEARCH ID: 237 **DIST/DIR:** NON GC **MAP ID:**

NAME:	NEW CASSEL INDUSTRIAL AREA	**REV:**	05/20/99
ADDRESS:	NO OF OLD COUNTRY RD , SO OF RAILROAD TRACKS	**ID1:**	130043
	NEW CASSEL NY 11590	**ID2:**	NYD001095363
	NASSAU	**STATUS:**	
CONTACT:		**PHONE:**	

CURRENT OWNER(S) ADDRESS: 95 Hopper Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Howard Schubert
CURRENT OWNER(S) ADDRESS: 51 Rushmore Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Arkwin Industries
CURRENT OWNER(S) ADDRESS: 670 Main Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Arkwin Industries
CURRENT OWNER(S) ADDRESS: 656 Main Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Arkwin Industries
CURRENT OWNER(S) ADDRESS: 710 Summa Avenue
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Arkwin Industries
CURRENT OWNER(S) ADDRESS: 70 Main Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Sew Simple
CURRENT OWNER(S) ADDRESS: 710 Summa Avenue
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Korg USA, Inc
CURRENT OWNER(S) ADDRESS: 89 Frost Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Make 1 Stop Auto S&J Body & Fender
CURRENT OWNER(S) ADDRESS: 51 Urban Avenue
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: B&L Collision
CURRENT OWNER(S) ADDRESS: 69 Kinkel Street
Westbury NY 11590

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TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SITE

SEARCH ID: 237 **DIST/DIR:** NON GC **MAP ID:**

NAME:	NEW CASSEL INDUSTRIAL AREA	**REV:**	05/20/99
ADDRESS:	NO OF OLD COUNTRY RD . SO OF RAILROAD TRACKS	**ID1:**	130043
	NEW CASSEL NY 11590	**ID2:**	NYD001095363
	NASSAU	**STATUS:**	
CONTACT:		**PHONE:**	

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Jorway Corporation
CURRENT OWNER(S) ADDRESS: 27 Bond Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Estate of Bishop Andrei Kuschak
CURRENT OWNER(S) ADDRESS: 90-10 180th Street
Jamaica NY 11432

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Supreme Edgelight
CURRENT OWNER(S) ADDRESS: 5 Bond Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Korg USA, Inc
CURRENT OWNER(S) ADDRESS: 75 Frost Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Praec Tool Company
CURRENT OWNER(S) ADDRESS: 512 Main Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Freund Woodworking
CURRENT OWNER(S) ADDRESS: 589 Main Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: MTD Knits
CURRENT OWNER(S) ADDRESS: 117 Urban Avenue
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Sew Simple
CURRENT OWNER(S) ADDRESS: 115 Frost Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Permafuse Corporation
CURRENT OWNER(S) ADDRESS: 675 Main Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Judith Lewis Printers
CURRENT OWNER(S) ADDRESS: 40 Urban Avenue

- Continued on next page -

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SITE

SEARCH ID: 237 **DIST/DIR:** NON GC **MAP ID:**

NAME:	NEW CASSEL INDUSTRIAL AREA	**REV:**	05/20/99
ADDRESS:	NO. OF OLD COUNTRY RD , SO OF RAILROAD TRACKS	**ID1:**	130043
	NEW CASSEL NY 11590	**ID2:**	NYD001095363
	NASSAU	**STATUS:**	
CONTACT:		**PHONE:**	

Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Uniflex
CURRENT OWNER(S) ADDRESS: 474 Grand Blvd
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: International Ribbon and Carbon
CURRENT OWNER(S) ADDRESS: 49 Sylvester Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Fine Art Autobody
CURRENT OWNER(S) ADDRESS: 90 New York Avenue
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Huron Tool and Cutting
CURRENT OWNER(S) ADDRESS: 75 State Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Royal Guard Fence
CURRENT OWNER(S) ADDRESS: 550 Main Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Contemporary Packaging
CURRENT OWNER(S) ADDRESS: 90 Hopper Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: New York Testing
CURRENT OWNER(S) ADDRESS: 75 Urban Avenue
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Atlas Graphics Inc
CURRENT OWNER(S) ADDRESS: 567 Main Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Autronic Plastics
CURRENT OWNER(S) ADDRESS: 18 Sylvester Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:

- Continued on next page -

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SITE

SEARCH ID: 237 **DIST/DIR:** NON GC **MAP ID:**

NAME: NEW CASSEL INDUSTRIAL AREA
ADDRESS: NO OF OLD COUNTRY RD , SO OF RAILROAD TRACKS
NEW CASSEL NY 11590
NASSAU
CONTACT:

REV: 05/20/99
ID1: 130043
ID2: NYD001095363
STATUS:
PHONE:

CURRENT OWNER(S) NAME: DBA Long Island Spray & Finishing
CURRENT OWNER(S) ADDRESS: 121 Hopper Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Bernite Products Inc
CURRENT OWNER(S) ADDRESS: 84 New York Avenue
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: New York Testing
CURRENT OWNER(S) ADDRESS: 81 Urban Avenue
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Custom Coating Inc
CURRENT OWNER(S) ADDRESS: 36 New York Avenue
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Nutra Tec Corporation
CURRENT OWNER(S) ADDRESS: 72 Sylvester Street
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Efficiency Systems
CURRENT OWNER(S) ADDRESS: 45 Urban Avenue
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Joerger Enterprises
CURRENT OWNER(S) ADDRESS: 32 New York Avenue
Westbury NY 11590

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S) NAME: Bogner Broadcast
CURRENT OWNER(S) ADDRESS: 401 Railroad Avenue
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: New York Testing
OPERATOR(S) ADDRESS: 81 Urban Street
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Warren Machine Company
OPERATOR(S) ADDRESS: 117 Urban Avenue
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Utility Manufacturing Company

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TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SITE

SEARCH ID: 237 **DIST/DIR:** NON GC **MAP ID:**

NAME:	NEW CASSEL INDUSTRIAL AREA	**REV:**	05/20/99
ADDRESS:	NO OF OLD COUNTRY RD . SO OF RAILROAD TRACKS	**ID1:**	130043
	NEW CASSEL NY 11590	**ID2:**	NYD001095363
	NASSAU	**STATUS:**	
CONTACT:		**PHONE:**	

OPERATOR(S) ADDRESS:	700 Main Street Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Sew Simple
OPERATOR(S) ADDRESS:	115 Frost Street Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Avanel Industries
OPERATOR(S) ADDRESS:	121 Hopper Street Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Advance Food Service Equipment
OPERATOR(S) ADDRESS:	750 Summa Avenue Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Alltronics
OPERATOR(S) ADDRESS:	45 Bond Street Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Anthonsen s All Metal Products
OPERATOR(S) ADDRESS:	630-640 Main Street Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Adchem Corporation
OPERATOR(S) ADDRESS:	625 Main Street Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Adchem Corporation
OPERATOR(S) ADDRESS:	85 New York Avenue Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Autronic Plastics
OPERATOR(S) ADDRESS:	18 Sylvester Street Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Atlas Graphics Inc
OPERATOR(S) ADDRESS:	567 Main Street Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Arkwin Industries, Inc
OPERATOR(S) ADDRESS:	686 Main Street Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Arkwin Industries. Inc
OPERATOR(S) ADDRESS:	670 Main Street Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Tischon Corporation

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TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SITE

SEARCH ID: 237 **DIST/DIR:** NON GC **MAP ID:**

NAME:	NEW CASSEL INDUSTRIAL AREA	**REV:**	05/20/99
ADDRESS:	NO OF OLD COUNTRY RD . SO OF RAILROAD TRACKS	**ID1:**	130043
	NEW CASSEL NY 11590	**ID2:**	NYD001095363
	NASSAU	**STATUS:**	
CONTACT:		**PHONE:**	

OPERATOR(S) ADDRESS:	40 New York Avenue Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Kleartone Transparent
OPERATOR(S) ADDRESS:	695 Summa Avenue Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Tischon Corporation
OPERATOR(S) ADDRESS:	68 Kinkel Street Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Uniflex
OPERATOR(S) ADDRESS:	474 Grand Blvd Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Judith Lewis Printers
OPERATOR(S) ADDRESS:	40 Urban Avenue Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Contemporary Packaging
OPERATOR(S) ADDRESS:	90 Hopper Street Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Tapemakers Inc
OPERATOR(S) ADDRESS:	48 Urban Avenue Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Avon Press
OPERATOR(S) ADDRESS:	25 Kinkel Street Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	B&G Lighting
OPERATOR(S) ADDRESS:	51 Urban Avenue Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Metpar Steel
OPERATOR(S) ADDRESS:	97 State Street Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Supreme Metal Fabricators
OPERATOR(S) ADDRESS:	776-790 Summa Avenue Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Korg USA, Inc
OPERATOR(S) ADDRESS:	89 Frost Street Westbury NY 11590
OPERATOR(S) DURING DISPOSAL:	Sew Simple

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TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SITE

SEARCH ID: 237 **DIST/DIR:** NON GC **MAP ID:**

NAME:	NEW CASSEL INDUSTRIAL AREA	**REV:**	05/20/99
ADDRESS:	NO OF OLD COUNTRY RD . SO OF RAILROAD TRACKS	**ID1:**	130043
	NEW CASSEL NY 11590	**ID2:**	NYD001095363
	NASSAU	**STATUS:**	
CONTACT:		**PHONE:**	

OPERATOR(S) ADDRESS: 710 Summa Avenue
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Arkwin Industries. Inc
OPERATOR(S) ADDRESS: 70 Main Street
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Applied Fluids
OPERATOR(S) ADDRESS: 770 Main Street
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Custom Coating Inc
OPERATOR(S) ADDRESS: 36 New York Avenue
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Permafuse Corporation
OPERATOR(S) ADDRESS: 675 Main Street
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Parafuse Corporation
OPERATOR(S) ADDRESS: 65 Kinkel Street
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Molla Inc
OPERATOR(S) ADDRESS: 110 State Street
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Laka Industries
OPERATOR(S) ADDRESS: 62 Kinkel Street
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Kwik-Eeze Corporation
OPERATOR(S) ADDRESS: 54 Brooklyn Avenue
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Blen-Cal Electronics
OPERATOR(S) ADDRESS: 700 Summa Avenue
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Island Transportation
OPERATOR(S) ADDRESS: 299 Main Street
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Hamilton Avent Electronics. Inc
OPERATOR(S) ADDRESS: 70 State Street
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: International Ribbon and Carbon

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SITE

SEARCH ID: 237 **DIST/DIR:** NON GC **MAP ID:**

NAME: NEW CASSEL INDUSTRIAL AREA
ADDRESS: NO OF OLD COUNTRY RD , SO OF RAILROAD TRACKS
NEW CASSEL NY 11590
NASSAU
CONTACT:

REV: 05/20/99
ID1: 130043
ID2: NYD001095363
STATUS:
PHONE:

OPERATOR(S) ADDRESS: 49 Sylvester Street
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: IMC Magnetics Corporation
OPERATOR(S) ADDRESS: 570 Main Street
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Huron Tool and Cutting
OPERATOR(S) ADDRESS: 75 State Street
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Guillotine Splicer
OPERATOR(S) ADDRESS: 45 Urban Avenue
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Freund Woodworking
OPERATOR(S) ADDRESS: 589 Main Street
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Dionics
OPERATOR(S) ADDRESS: 65 Rushmore Street
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Valu-Litho
OPERATOR(S) ADDRESS: 512 Main Street
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: JCL Custom Metal Doors
OPERATOR(S) ADDRESS: 95 Hopper Street
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Holmes and Sons
OPERATOR(S) ADDRESS: 84 New York Avenue
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Joerger Enterprises
OPERATOR(S) ADDRESS: 32 New York Avenue
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: Fine Art Autobody
OPERATOR(S) ADDRESS: 90 New York Avenue
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: B&L Collision
OPERATOR(S) ADDRESS: 69 Kinkel Street
Westbury NY 11590

OPERATOR(S) DURING DISPOSAL: T&S Brass and Bronze

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 51 **DIST/DIR:** 0.00 -- **MAP ID:** 9

NAME: MARRIOTT HOTEL
ADDRESS: 101 JAMES DOOLITTLE DRIVE
UNIONDALE NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 0001783
ID2:
STATUS: CLOSED 10/30/2000
PHONE:

SPILL DATE: 05/11/00
SPILL TIME: 12:00

DATE REPORTED: 05/11/00
TIME REPORTED: 13:21

MATERIAL SPILLED: DIESEL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 4 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: TANK OVERFILL
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: NON-COMMERCIAL/INSTITUTIONAL
REPORTED BY: OTHER
CALLER REMARKS:
REMOVING A 550GAL UST THAT APPEARS TO HAVE CONTAMINATION AROUND IT FROM OVERFILLS - DEC ON SITE - CLEANED UP

REGION: 1 **UST TRUST?** FALSE

SPILL INVESTIGATOR: HARDING
SPILL CONTACT: BILL MITCHELL **TELEPHONE:**

SPILLER: MARRIOTT HOTEL
ADDRESS: 101 JAMES DOOLITTLE DRIVE
UNIONDALE , NY
SPILLER CONTACT: BILL MITCHELL **TELEPHONE:**

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 10/31/00
DOES CLEAN UP MEET STANDARDS? TRUE
CLOSE DATE: 10/30/00
PENALTY RECOMMENDED? FALSE
DEC REMARKS:
APPROX 3 YDS CONT SOIL REMOVED DURING REMOVAL OF 550 FUEL OIL UST AND PROPERLY DISPOSED. BOTTOM SAMPLE NON DETECT VIA 8021 & 8270 NO FURTHER DEC ACTION REQUIRED

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 64 **DIST/DIR:** 0.00 -- **MAP ID:** 35

NAME: NASSAU VETERANS COLISEUM
ADDRESS: 1255 HEMPSTEAD TURNPIKE
UNIONDALE NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 0125233
ID2:
STATUS: CLOSED 10/22/2001
PHONE:

SPILL DATE: 10/19/01
SPILL TIME: 11:00

DATE REPORTED: 10/22/01
TIME REPORTED: 08:48

MATERIAL SPILLED: ETHYLENE GLYCOL
MATERIAL CLASS: HAZARDOUS

AMOUNT SPILLED: 700 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: EQUIPMENT FAILURE
RESOURCE AFFECTED: IN SEWER
WATERBODY AFFECTED:
SOURCE OF SPILL: NON-COMMERCIAL/INSTITUTIONAL
REPORTED BY: LOCAL AGENCY
CALLER REMARKS:
THE MATERIAL RELEASED FROM A COOLING SYSTEM DUE TO A PIPE BREAKAGE

REGION: 1 **UST TRUST?** FALSE

SPILL INVESTIGATOR: NONE
SPILL CONTACT: SCOTT MULLEN **TELEPHONE:** (516) 794-9372

SPILLER: NASSAU VETERANS COLISEUM
ADDRESS: 1255 HEMPSTEAD TURNPIKE
UNIONDALE
SPILLER CONTACT: SCOTT MULLEN **TELEPHONE:** (516) 794-9372

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 10/23/01
DOES CLEAN UP MEET STANDARDS? TRUE
DEC REMARKS:
10/22/01 TELECON MARK ELMENDORF: CEDAR CREEK SEWAGE DISTRICT HAS BEEN NOTIFIED, POSSIBLY AS MUCH AS 700 GALLONS OF ETHYLENE GLYCOL/WATER.NO RESPONSE

CLOSE DATE: 10/22/01
PENALTY RECOMMENDED? FALSE

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 73 **DIST/DIR:** 0.00 -- **MAP ID:** 35

NAME: R A SOMMERVILLE
ADDRESS: HEMPSTEAD TPKE
UNIONDALE NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 9312784
ID2:
STATUS: CLOSED 01/31/1994
PHONE:

SPILL DATE: 01/30/94
SPILL TIME: 15:35

DATE REPORTED: 01/30/94
TIME REPORTED: 16:05

MATERIAL SPILLED: GASOLINE
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 20 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: EQUIPMENT FAILURE
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: PASSENGER VEHICLE
REPORTED BY: FIRE DEPARTMENT
CALLER REMARKS:
PARKING LOT EAST 3, NASSAU COLLISEUM, PARKED VAN FUEL TANK LEAKED ONTO PARKING LOT, FD FOAMED & SANDED. NO DRAINS.PARKING LOT TO BE SWEPT, NO OTHER ACTIONS

REGION: 1 **UST TRUST?** FALSE

SPILL INVESTIGATOR: PARISH
SPILL CONTACT: **TELEPHONE:**

SPILLER: R A SOMMERVILLE
ADDRESS: 101 RTE 104
EAST QUOGUE ,
SPILLER CONTACT: **TELEPHONE:** (516) 673-4396

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 02/01/94
DOES CLEAN UP MEET STANDARDS? TRUE
DEC REMARKS:
01/31/94: NO OTHER ACTION

CLOSE DATE: 01/31/94
PENALTY RECOMMENDED? FALSE

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 88 **DIST/DIR:** 0.00 -- **MAP ID:** 65

NAME: SUNOCO
ADDRESS: 1220 FULTON AVENUE
UNIONDALE NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 9611206
ID2:
STATUS: CLOSED 05/01/1997
PHONE:

SPILL DATE: 12/11/96
SPILL TIME: 11:30

DATE REPORTED: 12/11/96
TIME REPORTED: 11:53

MATERIAL SPILLED: DIESEL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 0 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: EQUIPMENT FAILURE
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: GASOLINE STATION
REPORTED BY: TANK TESTER
CALLER REMARKS:
LINE TEST FAILURE - TEST METHOD WAS PETRO TITE LEAK RATE 144 GPH LINE WILL BE DUG OUT. REPAIRED, AND RETESTED

REGION: 1 **UST TRUST?** TRUE

SPILL INVESTIGATOR: T/T/F
SPILL CONTACT: LEVETTE PARISH **TELEPHONE:** (215) 977-6379

SPILLER: SUN CO INC
ADDRESS: 1801 MARKET STREET
PHILADELPHIA . PA 19103-
SPILLER CONTACT: LEVETTE PARISH **TELEPHONE:** (215) 977-6379

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 05/06/97
DOES CLEAN UP MEET STANDARDS? TRUE
CLOSE DATE: 05/01/97
PENALTY RECOMMENDED? FALSE
DEC REMARKS:
LINE FAILED 12/12/96, PASSED 1/3/97, SYSTEM AND SEPERATE LINE PASSED 1/7/97 AFTER TRAPPED LINE DUE TO BEND IN LINE WAS REPLACED NO CONTAMINATION FOUND

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 26 **DIST/DIR:** 0.01 SE **MAP ID:** 22

NAME: CROSS ISLAND SANITATION
ADDRESS: WALDON AVE & HEMPSTEAD TP
UNIONDALE NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 9000483
ID2:
STATUS: CLOSED 04/23/1990
PHONE:

SPILL DATE: 04/14/90
SPILL TIME: 09:53

DATE REPORTED: 04/14/90
TIME REPORTED: 10:08

MATERIAL SPILLED: DIESEL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 25 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: TRAFFIC ACCIDENT
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: PASSENGER VEHICLE
REPORTED BY: FIRE DEPARTMENT
CALLER REMARKS:
NCPD, FD ON SCENE SPILL CONTAINED, NEEDS CALL BACK DUMP TRUCK ACCIDENT SHEARED SADDLE TANK, NCFM APPLIED SPEEDY DRY & REOPENED TRAFFIC SPILLER IN PROCESS OF HIRING CONTRACTOR TO CLEANUP SPILL

REGION: 1 **UST TRUST?** F

SPILL INVESTIGATOR: ANDERSON
SPILL CONTACT: **TELEPHONE:**

SPILLER: CROSS ISLAND SANITATION
ADDRESS: 441 BOULDER STREET
RONKONKOMA , NY 11779
SPILLER CONTACT: **TELEPHONE:**

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 04/26/90
DOES CLEAN UP MEET STANDARDS? T
DEC REMARKS:

CLOSE DATE: 04/23/90
PENALTY RECOMMENDED? F

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 35 **DIST/DIR:** 0 01 SE **MAP ID:** 66

NAME: HEMPSTEAD TURNPIKE
ADDRESS: AT EARL COVINGTON
HEMPSTEAD NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 9510204
ID2:
STATUS: CLOSED 11/16/1995
PHONE:

SPILL DATE: 11/15/95
SPILL TIME: 07:40

DATE REPORTED: 11/15/95
TIME REPORTED: 09:00

MATERIAL SPILLED: #2 FUEL OIL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 1 G
AMOUNT RECOVERED: 1 G

CAUSE OF SPILL: OTHER
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: TANK TRUCK
REPORTED BY: RESPONSIBLE PARTY
CALLER REMARKS:
NOZZLE OPENED AFTER HITTING LARGE POTHOLE ONTO PAVEMENT NOZZLE APPEARS TO FUNCTION PROPERLY
CLEANED UP

REGION: 1

UST TRUST? FALSE

SPILL INVESTIGATOR: NONE
SPILL CONTACT:

TELEPHONE:

SPILLER: COMMANDER PETRO
ADDRESS: 4 SOUTH STREET
OYSTER BAY , NY 11771-
SPILLER CONTACT: ELENA ZAZZERA

TELEPHONE: (516) 922-7000

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 11/17/95
DOES CLEAN UP MEET STANDARDS? TRUE

CLOSE DATE: 11/16/95
PENALTY RECOMMENDED? FALSE

DEC REMARKS:
MILRO HIRED TO CLEANUP SPILL ON ROADWAY LANES CLOSED DOWN. SAND APPLIED, MILRO SWEPT UP,NO RESPONSE

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 22 **DIST/DIR:** 0.01 SW **MAP ID:** 19

NAME: CLM CONTRACTORS
ADDRESS: HEMPSTEAD TPKE/EARLE
UNIONDALE NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 9800864
ID2:
STATUS: CLOSED 05/21/1998
PHONE:

SPILL DATE: 04/20/98
SPILL TIME: 12:30

DATE REPORTED: 04/20/98
TIME REPORTED: 13:30

MATERIAL SPILLED: DIESEL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 35 G
AMOUNT RECOVERED: 35 G

CAUSE OF SPILL: TRAFFIC ACCIDENT
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: COMMERCIAL VEHICLE
REPORTED BY: LOCAL AGENCY
CALLER REMARKS:
TRUCK RUPTURED SADDLE TANK - SPILL ON ASPHALT - SPEEDI DRI & SAND APPLIED - NO DRAINS OR SOIL IMPACTED - NO RESPONSE REQUESTED

REGION: 1 **UST TRUST?** FALSE

SPILL INVESTIGATOR: FORD
SPILL CONTACT: JAMES E CLARK SR **TELEPHONE:**

SPILLER: CLM CONTRACTORS
ADDRESS: 114 6TH STREET
NORTH LINDENHURST , NY
SPILLER CONTACT: JAMES E CLARK SR **TELEPHONE:**

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 05/21/98
DOES CLEAN UP MEET STANDARDS? TRUE
CLOSE DATE: 05/21/98
PENALTY RECOMMENDED? FALSE
DEC REMARKS:
FORD CALLED BOB HARE NCFM. AS PER HARE DPW SWEPT UP STREET SWEEPER

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 24 **DIST/DIR:** 0.02 SE **MAP ID:** 20

NAME: COHEN RESIDENCE
ADDRESS: 19 MANOR PKWY
UNIONDALE NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 9409472
ID2:
STATUS: CLOSED 10/18/1994
PHONE:

SPILL DATE: 10/15/94
SPILL TIME: 16:00

DATE REPORTED: 10/15/94
TIME REPORTED: 18:05

MATERIAL SPILLED: #2 FUEL OIL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 1 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: EQUIPMENT FAILURE
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: PRIVATE DWELLING
REPORTED BY: RESPONSIBLE PARTY
CALLER REMARKS:
COUPLING ON TANK LEAKED ONTO WALL ONLY. GIFFORDS CLEANED UP & REPAIRED

REGION: 1

UST TRUST? FALSE

SPILL INVESTIGATOR: NONE
SPILL CONTACT:

TELEPHONE:

SPILLER: COHEN RESIDENCE
ADDRESS: 19 MANOR PKWY
UNIONDALE
SPILLER CONTACT:

TELEPHONE:

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 02/24/97
DOES CLEAN UP MEET STANDARDS? TRUE
DEC REMARKS:
10/18/94: NO RESPONSE NEEDED

CLOSE DATE: 10/18/94
PENALTY RECOMMENDED? FALSE

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 99 **DIST/DIR:** 0 03 SE **MAP ID:** 47

NAME: UNK
ADDRESS: 18 MARVIN AVE
UNIONDALE NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 9306851
ID2:
STATUS: CLOSED 02/28/1995
PHONE:

SPILL DATE: 09/03/93
SPILL TIME: 12:00

DATE REPORTED: 09/03/93
TIME REPORTED: 14:30

MATERIAL SPILLED: WASTE OIL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 5 G
AMOUNT RECOVERED: 15 G

CAUSE OF SPILL: ABANDONED DRUMS
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: UNKNOWN
REPORTED BY: CITIZEN
CALLER REMARKS:
3 PAILS ABANDONED ON STREET

REGION: 1 **UST TRUST?** FALSE

SPILL INVESTIGATOR: DECANDIA
SPILL CONTACT: **TELEPHONE:**

SPILLER: UNK
ADDRESS:

SPILLER CONTACT: **TELEPHONE:**

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 02/28/95
DOES CLEAN UP MEET STANDARDS? TRUE
CLOSE DATE: 02/28/95
PENALTY RECOMMENDED? FALSE
DEC REMARKS:
09/03/93: A: A MR COX (18 MARVIN AVE 516-538-6007) NOTIFIES HAZ WASTE REMEDIATION OF 3 PAILS ABANDONED ON STREET IN FRONT OF HIS HOUSE 09/03/93: B: DEC (CAMPBELL) RESPONDED- FOUND 2 5GAL PAILS OF GAS OR THINNER AND 1 5GAL PAIL OF WHAT APPEARS TO BE WASTE OIL THE LATTER HAD SPILLED ONTO PAVEMENT 09/03/93: C: DEC HIRED MILRO TO CLEAN UP 09/03/93: D: DEC (DECANDIA) RELIEVED CAMPBELL 09/03/93: E: COX SAID HE FOUND CONTAINERS MORNING OF 2SEPT DEC HAS NO LEAD ON SPILLER 09/03/93: F: MILRO PUT THE PAILS IN A 55GAL DRUM USED SPEEDI-DRI TO CLEAN UP THE SPILLAGE CLEANUP SATISFACTORY ECOTEST TO ANALYZE FOR DISPOSAL 10/05/93: RECEIVE LAB DATA: NO METALS OR VOLATILES VIA TCLP 03/14/94: MILRO DISPOSES OF THE DRUM AT CPC 01/05/95: DEC TO CLOSE REGIONAL FILE: CLEANUP SATISFACTORY; NO FURTHER REMEDIAL ACTION NEEDED 10/10/95: THIS IS ADDITIONAL INFORMATION ABOUT MATERIAL SPILLED FROM THE TRANSLATION OF THE OLD SPILL FILE: KEROSENE? GAS?

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 20 **DIST/DIR:** 0 05 SE **MAP ID:** 17

NAME: CASIMIR RESIDENCE
ADDRESS: 23 GILROY AVE
UNIONDALE NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 9408578
ID2:
STATUS: CLOSED 11/20/1994
PHONE:

SPILL DATE: 09/28/94
SPILL TIME: 10:00

DATE REPORTED: 09/28/94
TIME REPORTED: 10:37

MATERIAL SPILLED: #2 FUEL OIL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 1 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: EQUIPMENT FAILURE
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: PRIVATE DWELLING
REPORTED BY: OTHER
CALLER REMARKS:
LEAK FROM FITTING ON OIL LINE. REPAIRING IT

REGION: 1

UST TRUST? F

SPILL INVESTIGATOR: MATTHEWS
SPILL CONTACT:

TELEPHONE:

SPILLER: CASIMIR RESIDENCE
ADDRESS:

SPILLER CONTACT:

TELEPHONE:

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 11/21/94
DOES CLEAN UP MEET STANDARDS? T
DEC REMARKS:

CLOSE DATE: 11/20/94
PENALTY RECOMMENDED? F

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 33 **DIST/DIR:** 0 07 SE **MAP ID:** 27

NAME: GASCOTT RESIDENCE
ADDRESS: 1109 MERILLON STREET
UNIONDALE NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 0105171
ID2:
STATUS: CLOSED 10/31/2002
PHONE:

SPILL DATE: 08/13/01
SPILL TIME: 08:30

DATE REPORTED: 08/13/01
TIME REPORTED: 11:01

MATERIAL SPILLED: #2 FUEL OIL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 200 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: TANK FAILURE
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: PRIVATE DWELLING
REPORTED BY: OTHER
CALLER REMARKS:
UNDERGROUND 550 TANK. APPEARS TO HAVE GOTTEN A LEAK

REGION: 1

UST TRUST? FALSE

SPILL INVESTIGATOR: BRIAN D
SPILL CONTACT: MRS GASCOTT

TELEPHONE: (516) 489-3788

SPILLER: GASCOTT RESIDENCE
ADDRESS: 1109 MERILLON STREET
UNIONDALE . NY
SPILLER CONTACT: MRS GASCOTT

TELEPHONE: (516) 489-3788

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 09/07/01

CLOSE DATE: / /

DOES CLEAN UP MEET STANDARDS? FALSE

PENALTY RECOMMENDED? FALSE

DEC REMARKS:
DELIVERY 8/3-200, 250 UPON DEPARTURE, CHECKS LINE 1 1/2 200 TANK FAILURE, NO ODOR,TEMP DRUM INSURANCE CO WILL COVER IT GAVE 3 COMPANIES TO CALL. JENNIFER GASCOTT HOMEOWNER WILL CALL TO SCHEDULE APPT

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 70 **DIST/DIR:** 0.11 SE **MAP ID:** 36

NAME: NEVILLE HANCOCK RESIDENCE
ADDRESS: 68 GILROY AVENUE
UNIONDALE NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 9306352
ID2:
STATUS: CLOSED 01/21/1997
PHONE:

SPILL DATE: 08/24/93
SPILL TIME: 14:05

DATE REPORTED: 08/24/93
TIME REPORTED: 14:10

MATERIAL SPILLED: #2 FUEL OIL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 0 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: HOUSEKEEPING
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: TANK TRUCK
REPORTED BY: OTHER
CALLER REMARKS:
AT NEVILLE HANCOCK RESIDENCE, STAIN HISTORIC SPILL. SENECO WAS PREVIOUS SUPPLIER. SPILL AT FILL ON LAWN

REGION: 1 **UST TRUST?** FALSE

SPILL INVESTIGATOR: GIBBONS
SPILL CONTACT: **TELEPHONE:**

SPILLER: UNK
ADDRESS:

SPILLER CONTACT: **TELEPHONE:**

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 01/22/97 **CLOSE DATE:** 01/21/97
DOES CLEAN UP MEET STANDARDS? TRUE **PENALTY RECOMMENDED?** FALSE
DEC REMARKS:
DUE TO SIZE OF SPILL, ENVIRONMENTAL THREAT NO LONGER EXISTS

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 76 **DIST/DIR:** 0.11 SE **MAP ID:** 39

NAME: RESIDENCE
ADDRESS: 64 MARVIN AVENUE
UNIONDALE NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 9409815
ID2:
STATUS: CLOSED 10/25/1994
PHONE:

SPILL DATE: 10/21/94
SPILL TIME: 10:15

DATE REPORTED: 10/22/94
TIME REPORTED: 10:54

MATERIAL SPILLED: #2 FUEL OIL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 1 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: EQUIPMENT FAILURE
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: PRIVATE DWELLING
REPORTED BY: OTHER
CALLER REMARKS:
FITTING ON OIL PUMP LEAKED, FITTING REPLACED SPILL CLEANED UP WITH SORBENT MATERIAL,

REGION: 1

UST TRUST? F

SPILL INVESTIGATOR: NONE
SPILL CONTACT:

TELEPHONE:

SPILLER: RESIDENCE
ADDRESS:

SPILLER CONTACT:

TELEPHONE:

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 05/06/96
DOES CLEAN UP MEET STANDARDS? T
DEC REMARKS:

CLOSE DATE: 10/25/94
PENALTY RECOMMENDED? F

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 85 **DIST/DIR:** 0.11 SE **MAP ID:** 43

NAME: STENNETT RESIDENCE
ADDRESS: 68 CUNNINGHAM STREET
UNIONDALE NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 0010182
ID2:
STATUS: CLOSED 12/11/2000
PHONE:

SPILL DATE: 12/10/00
SPILL TIME: 21:00

DATE REPORTED: 12/11/00
TIME REPORTED: 08:10

MATERIAL SPILLED: #2 FUEL OIL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 10 G
AMOUNT RECOVERED: 10 G

CAUSE OF SPILL: TANK FAILURE
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: PRIVATE DWELLING
REPORTED BY: AFFECTED PERSONS
CALLER REMARKS:
PIN HOLE IN TANK CAUSED SPILL ALL CLEANED UP REGION REP PAGED TWICE NO CALL BACK

REGION: 1

UST TRUST? FALSE

SPILL INVESTIGATOR: NONE
SPILL CONTACT: MR STENNETT
TELEPHONE: (516) 505-8210

SPILLER: STENNETT RESIDENCE
ADDRESS: 68 CUNNINGHAM STREET
UNIONDALE , NY
SPILLER CONTACT: MR STENNETT
TELEPHONE: (516) 505-8210

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 12/12/00
DOES CLEAN UP MEET STANDARDS? TRUE

CLOSE DATE: 12/11/00
PENALTY RECOMMENDED? FALSE

DEC REMARKS:
12/11/00 TELECON WITH BOB CARMAN: THE 275 AST WAS IN BASEMENT FUEL OIL LEAKED ONTO CONCRETE FLOOR. NO DRAINS OR SUMP INVOLVED SPEEDI DRI PLACED, SWEPT AND TAKEN BACK TO YARD FOR DISPOSAL

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 27 **DIST/DIR:** 0.12 NW **MAP ID:** 23

NAME: DREW WATER SERVICES
ADDRESS: 50 CHARLES BLVD
GARDEN CITY NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 9314862
ID2:
STATUS: CLOSED 04/13/1994
PHONE:

SPILL DATE: 03/17/94
SPILL TIME: 14:00

DATE REPORTED: 03/18/94
TIME REPORTED: 15:44

MATERIAL SPILLED: UNKNOWN PETROLEUM
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 30 G
AMOUNT RECOVERED: 0 G

MATERIAL SPILLED: SODIUM SILICATE
MATERIAL CLASS: NON PETROLEUM/NON HAZARDOUS

AMOUNT SPILLED: 0
AMOUNT RECOVERED: 0

CAUSE OF SPILL: EQUIPMENT FAILURE
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: TANK TRUCK
REPORTED BY: AFFECTED PERSONS
CALLER REMARKS:
CHEMICAL SPILLED IN REAR PARKING AREA DURING DELIVERY, SOME CLEANUP PERFORMED ON 3/17/94, CLEANUP NOT COMPLETED, NCFM TO CHECK SPILL.

REGION: 1 **UST TRUST?** F

SPILL INVESTIGATOR: LEUNG
SPILL CONTACT: **TELEPHONE:**

SPILLER: DREW WATER SERVICES
ADDRESS: 608 WEST 102ND ST
NEW YORK, NY ,
SPILLER CONTACT: **TELEPHONE:** (212) 368-1000

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 04/25/94
DOES CLEAN UP MEET STANDARDS? T
DEC REMARKS:

CLOSE DATE: 04/13/94
PENALTY RECOMMENDED? F

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 28 **DIST/DIR:** 0.13 SE **MAP ID:** 24

NAME:	E OF PHYSICAL PLANT DEPT	**REV:**	8/27/04
ADDRESS:	UNIONDALE AVE/BALDWIN CT	**ID1:**	0325122
	UNIONDALE NY	**ID2:**	
	NASSAU	**STATUS:**	CLOSED
CONTACT:		**PHONE:**	

SITE INFORMATION:

SPILL DATE:	06/05/2003
DATE REPORTED:	06/05/2003
SPILL TIME:	11:43 AM
TIME REPORTED:	11:43 AM
SPILLED MATERIAL:	HYDRAULIC OIL
SPILLED AMOUNT:	1 GAL.
SPILL CAUSE:	EQUIPMENT FAILURE
SPILL SOURCE:	OTHER COMM/INDUSTRIAL
RESOURCE AFFECTED:	ON LAND
WATERBODY:	
REGION CLOSED DATE:	06/06/2003

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 46 **DIST/DIR:** 0.14 SE **MAP ID:** 29

NAME:	KAVANAGHT RESIDENCE	**REV:**	12/8/04
ADDRESS:	71 MANOR PARKWAY	**ID1:**	0409810
	UNIONDALE NY	**ID2:**	
	NASSAU	**STATUS:**	ACTIVE
CONTACT:		**PHONE:**	

SITE INFORMATION:

SPILL DATE:	12/02/2004
DATE REPORTED:	12/02/2004
SPILL TIME:	12:33 PM
TIME REPORTED:	12:33 PM
SPILLED MATERIAL:	#2 FUEL OIL
SPILLED AMOUNT:	GAL
SPILL CAUSE:	OTHER
SPILL SOURCE:	PRIVATE DWELLING
RESOURCE AFFECTED:	GROUNDWATER
WATERBODY:	
REGION CLOSED DATE:	NOT CLOSED

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 23 **DIST/DIR:** 0.35 -W **MAP ID:** 10

NAME: COGENERATION PLANT
ADDRESS: 185 CHARLES LINDBERG BLVD
UNIONDALE NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 9408665
ID2:
STATUS: CLOSED 11/29/1994
PHONE:

SPILL DATE: 09/29/94
SPILL TIME: 10:00

DATE REPORTED: 09/29/94
TIME REPORTED: 10:15

MATERIAL SPILLED: WASTE OIL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 0 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: DELIBERATE
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: COMMERCIAL/INDUSTRIAL
REPORTED BY: RESPONSIBLE PARTY
CALLER REMARKS:
PLANT THOUGHT DRAINS IN BLDG WENT TO AN OIL/WATER SEPARATOR & INTO A TANK. AFTER HEAVY RAIN, DRYWELL OVERFLOWED AND OIL WAS NOTICED DID A DYE TEST & FOUND THAT DRAINS GO INTO DRYWELL

REGION: 1 **UST TRUST?** FALSE

SPILL INVESTIGATOR: DECANDIA
SPILL CONTACT: **TELEPHONE:**

SPILLER: COGENERATION PLANT
ADDRESS:

SPILLER CONTACT: **TELEPHONE:**

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 02/02/01
DOES CLEAN UP MEET STANDARDS? TRUE
DEC REMARKS:
11/29/94: MEG CLEANED OUT DRYWELL 5 YDS REMOVED AND SAMPLED OK

CLOSE DATE: 11/29/94
PENALTY RECOMMENDED? FALSE

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 45 **DIST/DIR:** 0.35 -W **MAP ID:** 10

NAME:	ISLAND TRANSPORTATION	**REV:**	5/10/04
ADDRESS:	185 CHARLES LINDBURG BLVD	**ID1:**	9012709
	UNIONDALE NY	**ID2:**	
	NASSAU	**STATUS:**	ACTIVE
CONTACT:		**PHONE:**	

SPILL DATE:	03/12/91	**DATE REPORTED:**	03/12/91
SPILL TIME:	07:50	**TIME REPORTED:**	10:00

MATERIAL SPILLED:	#2 FUEL OIL	**AMOUNT SPILLED:**	100 G
MATERIAL CLASS:	PETROLEUM	**AMOUNT RECOVERED:**	0 G

CAUSE OF SPILL: TANK OVERFILL
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: TANK TRUCK
REPORTED BY: AFFECTED PERSONS
CALLER REMARKS:
RECOVERED 60 GASLLONG SO FAR NCFM ON SCENE, NEEDS RESPONSE, NO DRAINAGE, ITC CLEANING UP

REGION: 1 **UST TRUST?** FALSE

SPILL INVESTIGATOR: ACAMPORA
SPILL CONTACT: **TELEPHONE:**

SPILLER: ISLAND TRANSPORTATION
ADDRESS:

SPILLER CONTACT: **TELEPHONE:**

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 07/14/00 **CLOSE DATE:** / /
DOES CLEAN UP MEET STANDARDS? FALSE **PENALTY RECOMMENDED?** FALSE
DEC REMARKS:
7/14/00 FILE REASSIGNED

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 52 **DIST/DIR:** 0.35 -W **MAP ID:** 10

NAME: MATLOCK
ADDRESS: 185 CHARLES LINDBURGH
UNIONDALE NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 9010082
ID2:
STATUS: CLOSED 12/19/1990
PHONE:

SPILL DATE: 12/12/90
SPILL TIME: 12:00

DATE REPORTED: 12/17/90
TIME REPORTED: 09:30

MATERIAL SPILLED: WASTE OIL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 0 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: HOUSEKEEPING
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: TANK TRUCK
REPORTED BY: AFFECTED PERSONS
CALLER REMARKS:
EBASCO CONSTRUCTION.STAIN ON GROUND.CALLER SAYS COMPANY IS DUMPING OIL

REGION: 1 **UST TRUST?** FALSE

SPILL INVESTIGATOR: LUCE
SPILL CONTACT: **TELEPHONE:**

SPILLER: MATLOCK
ADDRESS:

SPILLER CONTACT: **TELEPHONE:**

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 12/20/90
DOES CLEAN UP MEET STANDARDS? TRUE
DEC REMARKS:
12/19/90: NO ACTION REQUIRED

CLOSE DATE: 12/19/90
PENALTY RECOMMENDED? FALSE

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 92 **DIST/DIR:** 0.35 -W **MAP ID:** 10

NAME: TRIGEN
ADDRESS: 185 CHARLES LINDBERGH BLV
GARDEN CITY NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 0101123
ID2:
STATUS: CLOSED 04/30/2001
PHONE:

SPILL DATE: 04/29/01
SPILL TIME: 12:00

DATE REPORTED: 04/29/01
TIME REPORTED: 17:49

MATERIAL SPILLED: WASTEWATER
MATERIAL CLASS: NON PETROLEUM/NON HAZARDOUS

AMOUNT SPILLED: 7500 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: EQUIPMENT FAILURE
RESOURCE AFFECTED: IN SEWER
WATERBODY AFFECTED:
SOURCE OF SPILL: COMMERCIAL/INDUSTRIAL
REPORTED BY: RESPONSIBLE PARTY
CALLER REMARKS:
VALVE ON A NEUTRALIZATION TANK FAILED CAUSING SPILL TO SEWER NO MATERIAL ABLE TO BE RECOVERED WATER IA A LOW PH WATER

REGION: 1 **UST TRUST?** FALSE

SPILL INVESTIGATOR: NONE
SPILL CONTACT: DAVID PETTY **TELEPHONE:** (516) 222-2884

SPILLER: TRIGEN
ADDRESS: 185 CHARLES LINDBERGH BLV
GARDEN CITY ,
SPILLER CONTACT: DAVID PETTY **TELEPHONE:** (516) 222-2884

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 05/01/01
DOES CLEAN UP MEET STANDARDS? TRUE
DEC REMARKS:
REFERRED TO WATER UNIT

CLOSE DATE: 04/30/01
PENALTY RECOMMENDED? FALSE

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 93 **DIST/DIR:** 0.35 -W **MAP ID:** 10

NAME: TRIGEN ENERGY
ADDRESS: 185 CHARLES LINDBERG BLVD
UNIONDALE NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 9513371
ID2:
STATUS: CLOSED 01/23/1996
PHONE:

SPILL DATE: 01/23/96
SPILL TIME: 13:30

DATE REPORTED: 01/23/96
TIME REPORTED: 14:44

MATERIAL SPILLED: #2 FUEL OIL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 4 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: EQUIPMENT FAILURE
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: COMMERCIAL VEHICLE
REPORTED BY: RESPONSIBLE PARTY
CALLER REMARKS:
CAUSE UNDER INVESTIGATION NOW - POSSIBLY FROM HOSE ON TRUCK CONTAINED ON ASPHAULT - CLEAN UP BEING DOWN NOW

REGION: 1 UST TRUST? FALSE

SPILL INVESTIGATOR: NONE
SPILL CONTACT: TELEPHONE:

SPILLER: ISLAND TRANSPORTATION
ADDRESS: 299 EDISON AVENUE
WEST BABYLON , NY 11704-
SPILLER CONTACT: LARRY SHEA TELEPHONE: (516) 694-4490

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 01/24/96
DOES CLEAN UP MEET STANDARDS? TRUE
DEC REMARKS:
DUPLICATE REPORT, REFER TO 95-13358

CLOSE DATE: 01/23/96
PENALTY RECOMMENDED? FALSE

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 94 **DIST/DIR:** 0.35 -W **MAP ID:** 10

NAME: TRIGEN NASSAU ENERGY
ADDRESS: 185 CHARLES LINDBURG BLVD
GARDEN CITY NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 9513358
ID2:
STATUS: CLOSED 08/13/1996
PHONE:

SPILL DATE: 01/23/96
SPILL TIME: 13:30

DATE REPORTED: 01/23/96
TIME REPORTED: 14:06

MATERIAL SPILLED: #2 FUEL OIL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 5 G
AMOUNT RECOVERED: 5 G

CAUSE OF SPILL: EQUIPMENT FAILURE
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: COMMERCIAL VEHICLE
REPORTED BY: RESPONSIBLE PARTY
CALLER REMARKS:
VENT CAP FAILED - OIL SPILLED IN THE PARKING LOT - SPILL CREW IN ROUTE - SPILL CONTAINED

REGION: 1 **UST TRUST?** FALSE

SPILL INVESTIGATOR: SCHULZ
SPILL CONTACT: MICHAEL BURNS **TELEPHONE:** (516) 222-2884

SPILLER: TRIGEN NASSAU ENERGY
ADDRESS: 185 CHARLES LINDBURG BLVD
GARDEN CITY , NY
SPILLER CONTACT: MINCHAEL BURNS **TELEPHONE:** (516) 222-2884

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 08/14/96
DOES CLEAN UP MEET STANDARDS? TRUE
DEC REMARKS:
15 X 5 LONG SPILL ON PAVEMENT, NO DRAINS WERE AFFECTED

CLOSE DATE: 08/13/96
PENALTY RECOMMENDED? FALSE

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 95 **DIST/DIR:** 0.35 -W **MAP ID:** 10

NAME: TRIGEN NASSAU ENERGY CORP
ADDRESS: 185 CHARLES LINDBERG BLVD
GARDEN CITY NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 9514490
ID2:
STATUS: CLOSED 02/16/1996
PHONE:

SPILL DATE: 02/13/96
SPILL TIME: 00:15

DATE REPORTED: 02/13/96
TIME REPORTED: 07:35

MATERIAL SPILLED: #2 FUEL OIL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 1 G
AMOUNT RECOVERED: 1 G

CAUSE OF SPILL: HUMAN ERROR
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: COMMERCIAL VEHICLE
REPORTED BY: RESPONSIBLE PARTY
CALLER REMARKS:
DRIVER SPILLED ON DISCONNECT

REGION: 1 **UST TRUST?** FALSE

SPILL INVESTIGATOR: LEUNG
SPILL CONTACT: MARCO ORSETTI **TELEPHONE:** (516) 222-2884

SPILLER: TRIGEN NASSAU ENERGY CORP
ADDRESS: 185 CHARLES LINDBERG BLVD
GARDEN CITY ,
SPILLER CONTACT: MARCO ORSETTI **TELEPHONE:** (516) 222-2884

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 02/23/01
DOES CLEAN UP MEET STANDARDS? TRUE
DEC REMARKS:
SPILL CLEANED UP WITH ABSORBANT PADS ON ASPHALT PARKING LOT

CLOSE DATE: 02/16/96
PENALTY RECOMMENDED? FALSE

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS SITE

SEARCH ID: 96 **DIST/DIR:** 0.35 -W **MAP ID:** 10

NAME: TRIGEN-NASSAU ENERGY CORP
ADDRESS: 185 CHARLES LINDBERG BLVD
GARDEN CITY NY
NASSAU
CONTACT:

REV: 5/10/04
ID1: 9900517
ID2:
STATUS: CLOSED 06/18/1999
PHONE:

SPILL DATE: 04/14/99
SPILL TIME: 11:00

DATE REPORTED: 04/14/99
TIME REPORTED: 15:17

MATERIAL SPILLED: GEAR OIL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 10 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: EQUIPMENT FAILURE
RESOURCE AFFECTED: ON LAND
WATERBODY AFFECTED:
SOURCE OF SPILL: COMMERCIAL/INDUSTRIAL
REPORTED BY: RESPONSIBLE PARTY
CALLER REMARKS:
OIL LINE BROKE CAUSING SPILL-SOME MATERIAL WENT ON TO BLUE STONE WILL CALL DEC FOR DIRECTION FOR CLEANUP

REGION: 1 **UST TRUST?** FALSE

SPILL INVESTIGATOR: COSTELLO
SPILL CONTACT: MICHAEL BYRNES **TELEPHONE:** (516) 222-2884

SPILLER: TRIGEN-NASSAU ENERGY CORP
ADDRESS: 185 CHARLES LINDBERG BLVD
GARDEN CITY
SPILLER CONTACT: MICHAEL BYRNES **TELEPHONE:** (516) 222-2884

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 06/18/99
DOES CLEAN UP MEET STANDARDS? TRUE
CLOSE DATE: 06/18/99
PENALTY RECOMMENDED? FALSE
DEC REMARKS:
TELECON WITH MIKE BYRNES: HE OWNS PROPERTY WHERE SPILL OCCURRED OIL LEAKED FROM A FAN MOTOR, SPRAYED ON WALLS AND BLUE STONE 30 FT DIAM AREA OF BLUE STONE AFFECTED ADVISED HIM WILL NEED TO DISPOSE OF THE STONE MEG EXCAVATED IMPACTED SOIL/GRAVEL COSTELLO INSPECTED ON 5/6/99

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS 80's SITE

SEARCH ID: 137 **DIST/DIR:** 0.00 -- **MAP ID:** 35

NAME: NASSAU COLISEUM
ADDRESS: HEMPSTEAD TURNPIKE
UNIONDALE NY
NASSAU
CONTACT:

REV: 10/18/00
ID1: 8701759
ID2:
STATUS: CLOSED
PHONE:

SPILL DATE: 06/01/87
SPILL TIME: 12:00

DATE REPORTED: 06/02/87
TIME REPORTED: 09:38

MATERIAL SPILLED: DIESEL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 0 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: TANK FAILURE
RESOURCE AFFECTED: GROUNDWATER
WATERBODY AFFECTED:
SOURCE OF SPILL: NON-COMMERCIAL/INSTITUTIONAL
REPORTED BY: TANK TESTER
CALLER REMARKS:
1K FAILED AT - 068

REGION: 1 **UST TRUST?** YES

SPILL INVESTIGATOR: O NEILL FD
SPILL CONTACT:

TELEPHONE:

SPILLER: NASSAU COLISEUM
ADDRESS: HEMPSTEAD TURNPIKE
UNIONDALE, NY
SPILLER CONTACT:

TELEPHONE:

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 02/24/99
DOES CLEAN UP MEET STANDARDS? YES

CLOSE DATE: 02/24/89
PENALTY RECOMMENDED? NO

DEC REMARKS:
/ / : NO RETESTING SCHEDULED AS OF YET 02/24/89: TANK WAS REMOVED 5 YDS OF CONT SOIL STOCKPILED DISPOSAL LETTER WITHOUT SPILL NUMBER WAS ISSUED SEE SPILL 87-2169

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

STATE SPILLS 80's SITE

SEARCH ID: 138 **DIST/DIR:** 0.00 -- **MAP ID:** 35

NAME: NASSAU COLISEUM
ADDRESS: HEMPSTEAD TURNPIKE
UNIONDALE NY
NASSAU
CONTACT:

REV: 10/18/00
ID1: 8702169
ID2:
STATUS: CLOSED
PHONE:

SPILL DATE: 06/16/87
SPILL TIME: 14:55

DATE REPORTED: 06/16/87
TIME REPORTED: 15:00

MATERIAL SPILLED: DIESEL
MATERIAL CLASS: PETROLEUM

AMOUNT SPILLED: 0 G
AMOUNT RECOVERED: 0 G

CAUSE OF SPILL: TANK TEST FAILURE
RESOURCE AFFECTED: GROUNDWATER
WATERBODY AFFECTED:
SOURCE OF SPILL: COMMERCIAL/INDUSTRIAL
REPORTED BY: TANK TESTER
CALLER REMARKS:
1-1K FAILED AT - 511

REGION: 1 **UST TRUST?** YES

SPILL INVESTIGATOR: O NEILL FD
SPILL CONTACT:
TELEPHONE:

SPILLER: NASSAU COLISEUM
ADDRESS: HEMPSTEAD TURNPIKE
UNIONDALE, NY
SPILLER CONTACT:
TELEPHONE: (516) 794-9300

CALLER:
AGENCY:
TELEPHONE:

NOTIFIER:
AGENCY:
TELEPHONE:

LAST DEC UPDATE: 02/24/99
DOES CLEAN UP MEET STANDARDS? YES
CLOSE DATE: 02/24/89
PENALTY RECOMMENDED? NO
DEC REMARKS:
02/24/89: TANK WAS REMOVED 5 YDS OF CONT SOIL WAS STOCKPILED DISPOSAL LETTER WAS WITHOUT SPILL # WAS ISSUED SEE SPILL 87-1759 FOR FIELD REPORTS

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

SOLID WASTE LANDFILL SITE

SEARCH ID: 360 **DIST/DIR:** NON GC **MAP ID:**

NAME:	WASTE RECOVERY ENTERPRISE	**REV:**	3/8/02
ADDRESS:	VALLEY VIEW ROAD	**ID1:**	4-39W01
	UNIONDALE NY	**ID2:**	
	OTSEGO	**STATUS:**	ACTIVE
CONTACT:		**PHONE:**	

SITE INFORMATION

TYPE:	W		
REGULATORY STATUS:	REGISTERED		
DEC REGION:	4		
AQUIFER TYPE:	NONE		
WASTE TYPE(S):	CONCRETE, ASPHALT, BRICK, SOIL, ROCK		
SINGLE LINER SYSTEM:	0	**SINGLE COMPOSITE LINER SYSTEM:**	0
DOUBLE LINER SYSTEM:	0	**DOUBLE COMPOSITE LINER SYSTEM:**	0
DATE FIRST RECEIVED WASTE:	- -	**DATE STOPPED RECEIVING WASTE:**	- -
360 PERMIT NUMBER:	0		
360 PERMIT ISSUE DATE:	- -		
DATE AUTHORIZED TO OPERATE:	- -	**DATE OPERATION PERMIT EXPIRES:**	- -
DATE ORDER ON CONSENT SIGNED:	- -	**ACCOMPLISH DATE OF ORDER:**	- -
CONSTRUCTION PERMIT NUMBER:	0		
DATE AUTHORIZED TO CONSTRUCT:	- -	**DATE CONSTRUCTION PERMIT EXPIRES:**	- -

OWNER INFORMATION

OWNER:	CALLANAN INDUSTRIES INC
ADDRESS:	PO BOX 15097 ALBANY, NY 12212
OPERATOR/CONTACT NAME:	
PHONE:	5183722222

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

SOLID WASTE LANDFILL SITE

SEARCH ID: 361 **DIST/DIR:** NON GC **MAP ID:**

NAME:	GARDEN CITY SLF (V)	**REV:**	3/8/02
ADDRESS:	351 STEWART AVE	**ID1:**	1-30S02
	GARDEN CITY NY 11530	**ID2:**	
		STATUS:	INACTIVE
CONTACT:	VILLAGE OF GARDEN CITY	**PHONE:**	( ) -

SITE INFORMATION

TYPE:	S - MIXED SOLID WASTE LANDFILLS		
REGULATORY STATUS:	NONE		
DEC REGION:	1		
AQUIFER TYPE:	SOLE		
WASTE TYPE(S):			
SINGLE LINER SYSTEM:	0	**SINGLE COMPOSITE LINER SYSTEM:**	0
DOUBLE LINER SYSTEM:	0	**DOUBLE COMPOSITE LINER SYSTEM:**	0
DATE FIRST RECEIVED WASTE:	- -	**DATE STOPPED RECEIVING WASTE:**	- -
360 PERMIT NUMBER:	0		
360 PERMIT ISSUE DATE:	- -		
DATE AUTHORIZED TO OPERATE:	- -	**DATE OPERATION PERMIT EXPIRES:**	- -
DATE ORDER ON CONSENT SIGNED:	- -	**ACCOMPLISH DATE OF ORDER:**	- -
CONSTRUCTION PERMIT NUMBER:	0		
DATE AUTHORIZED TO CONSTRUCT:	- -	**DATE CONSTRUCTION PERMIT EXPIRES:**	- -

OWNER INFORMATION

OWNER:	VILLAGE OF GARDEN CITY
ADDRESS:	351 STEWART AVE
	GARDEN CITY, NY 11530
OPERATOR/CONTACT NAME:	VILLAGE OF GARDEN CITY
PHONE:	( ) -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

SOLID WASTE LANDFILL SITE

SEARCH ID: 362 **DIST/DIR:** NON GC **MAP ID:**

NAME:	NEW YORK DEPOT CORP	**REV:**	3/8/02
ADDRESS:	PO BOX 7126	**ID1:**	1-30W16R
	GARDEN CITY NY 11530	**ID2:**	
	NASSAU	**STATUS:**	ACTIVE
CONTACT:		**PHONE:**	5164895180

SITE INFORMATION

TYPE:	W		
REGULATORY STATUS:	REGISTERED		
DEC REGION:	1		
AQUIFER TYPE:	SOLE		
WASTE TYPE(S):	CONCRETE, ASPHALT, BRICK, SOIL, ROCK		
SINGLE LINER SYSTEM:	0	**SINGLE COMPOSITE LINER SYSTEM:**	0
DOUBLE LINER SYSTEM:	0	**DOUBLE COMPOSITE LINER SYSTEM:**	0
DATE FIRST RECEIVED WASTE:	- -	**DATE STOPPED RECEIVING WASTE:**	- -
360 PERMIT NUMBER:	0		
360 PERMIT ISSUE DATE:	- -		
DATE AUTHORIZED TO OPERATE:	- -	**DATE OPERATION PERMIT EXPIRES:**	- -
DATE ORDER ON CONSENT SIGNED:	- -	**ACCOMPLISH DATE OF ORDER:**	- -
CONSTRUCTION PERMIT NUMBER:	0		
DATE AUTHORIZED TO CONSTRUCT:	- -	**DATE CONSTRUCTION PERMIT EXPIRES:**	- -

OWNER INFORMATION

OWNER:	JOSEPH ARAGONA
ADDRESS:	79 CATHEDRAL AVE HEMPSTEAD, NY 11550
OPERATOR/CONTACT NAME:	
PHONE:	5164895180

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

SOLID WASTE LANDFILL SITE

SEARCH ID: 363 **DIST/DIR:** NON GC **MAP ID:**

NAME:	CONROC RECYCLING	**REV:**	1/1/04
ADDRESS:	55 NEW STREET	**ID1:**	1-30T27R
	OCEANSIDE NY 11572	**ID2:**	
	NASSAU	**STATUS:**	ACTIVE
CONTACT:	MICHAEL LOGUIDICE	**PHONE:**	5167630931

SITE INFORMATION

OWNER INFORMATION

NAME:	MICHAEL LOGUIDICE
TYPE:	PRIVATE
ADDRESS:	55 NEW STATE OCEANSIDE , NY 11572
EMAIL:	
PHONE:	5167630931

CONTACT INFORMATION

NAME:	MICHAEL LOGUIDICE
ADDRESS:	55 NEW STREET OCEANDSIDE , NY 11572
EMAIL:	
PHONE:	5167630931

ACTIVITY DESC:	C&D PROCESSING - REGISTERED
REG STATUS:	REGISTRATION
WASTE TYPE:	ROCK;SOIL (CLEAN);CONCRETE;ASPHALT
AUTH NUMBER:	30T27R
AUTH ISSUE DATE:	02/17/1994
EXPIRATION DATE:	

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

SOLID WASTE LANDFILL SITE

SEARCH ID: 364 **DIST/DIR:** NON GC **MAP ID:**

NAME:	VILLAGE OF HEMPSTEAD T S	REV:	8/3/00
ADDRESS:	99 NICHOLS COURT	ID1:	1-30T93
	HEMPSTEAD NY 11551	ID2:	
	NASSAU	STATUS:	ACTIVE
CONTACT:	VILLAGE OF HEMPSTEAD	PHONE:	

SITE DESCRIPTION

REGULATORY STATUS:	REGISTERED		
DEC REGION:	1		
AQUIFER TYPE:	SOLE		
WASTE TYPE(S):	YARD WASTE MATERIAL. BRANCHES, LEAVES, GRASS CLIPPINGS		
SINGLE LINER SYSTEM:	NO	SINGLE COMPOSITE LINER SYSTEM:	NO
DOUBLE LINER SYSTEM:	NO	DOUBLE COMPOSITE LINER SYSTEM:	NO
DATE FIRST RECEIVED WASTE:		DATE STOPPED RECEIVING WASTE:	
360 PERMIT NUMBER:	0		
360 PERMIT ISSUE DATE:	5/2/94		
DATE AUTHORIZED TO OPERATE:	5/2/94	DATE OPERATION PERMIT EXPIRES:	
DATE ORDER ON CONSENT SIGNED:		ACCOMPLISH DATE OF ORDER:	
CONSTRUCTION PERMIT NUMBER:	0		
DATE AUTHORIZED TO CONSTRUCT:		DATE CONSTRUCTION PERMIT EXPIRES:	

OWNER INFORMATION

OWNER:	VILLAGE OF HEMPSTEAD
ADDRESS:	99 NICHOLS COURT HEMPSTEAD, NY 11551
OPERATOR/CONTACT NAME:	VILLAGE OF HEMPSTEAD
PHONE:	(516) 489-3400

SITE DESCRIPTION

REGULATORY STATUS:	REGISTERED		
DEC REGION:	1		
AQUIFER TYPE:	SOLE		
WASTE TYPE(S):	YARD WASTE MATERIAL, BRANCHES, LEAVES, GRASS CLIPPINGS		
SINGLE LINER SYSTEM:	NO	SINGLE COMPOSITE LINER SYSTEM:	NO
DOUBLE LINER SYSTEM:	NO	DOUBLE COMPOSITE LINER SYSTEM:	NO
DATE FIRST RECEIVED WASTE:		DATE STOPPED RECEIVING WASTE:	
360 PERMIT NUMBER:	0		
360 PERMIT ISSUE DATE:	5/2/94		
DATE AUTHORIZED TO OPERATE:	5/2/94	DATE OPERATION PERMIT EXPIRES:	
DATE ORDER ON CONSENT SIGNED:		ACCOMPLISH DATE OF ORDER:	
CONSTRUCTION PERMIT NUMBER:	0		
DATE AUTHORIZED TO CONSTRUCT:		DATE CONSTRUCTION PERMIT EXPIRES:	

OWNER INFORMATION

OWNER:	VILLAGE OF HEMPSTEAD
ADDRESS:	99 NICHOLS COURT

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

SOLID WASTE LANDFILL SITE

SEARCH ID: 364 **DIST/DIR:** NON GC **MAP ID:**

NAME:	VILLAGE OF HEMPSTEAD T S	**REV:**	8/3/00
ADDRESS:	99 NICHOLS COURT	**ID1:**	1-30T93
	HEMPSTEAD NY 11551	**ID2:**	
	NASSAU	**STATUS:**	ACTIVE
CONTACT:	VILLAGE OF HEMPSTEAD	**PHONE:**	

HEMPSTEAD, NY 11551
OPERATOR/CONTACT NAME: VILLAGE OF HEMPSTEAD
PHONE: (516) 489-3400

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 153 **DIST/DIR:** 0.00 -- **MAP ID:** 35

NAME: CONFIDENTIAL
ADDRESS: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553
NASSAU
CONTACT:

REV: 11/22/02
ID1: NAFM-4095
ID2:
STATUS: NC FIRE MARSHAL
PHONE:

SITE INFORMATION

AT THE REQUEST OF THE NASSAU COUNTY FIRE MARSHAL DETAILS ARE NOT AVAILABLE. FOR FURTHER INFORMATION PLEASE CONTACT THEM AT THE FOLLOWING PHONE NUMBER (516) 572-1000

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 155 **DIST/DIR:** 0.00 -- **MAP ID:** 65

NAME: CONFIDENTIAL
ADDRESS: 1220 FULTON AVE
UNIONDALE NY 11553
NASSAU
CONTACT:

REV: 11/22/02
ID1: NAFM-5285
ID2:
STATUS: NC FIRE MARSHAL
PHONE:

SITE INFORMATION

AT THE REQUEST OF THE NASSAU COUNTY FIRE MARSHAL DETAILS ARE NOT AVAILABLE. FOR FURTHER INFORMATION PLEASE CONTACT THEM AT THE FOLLOWING PHONE NUMBER (516) 572-1000

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 160 **DIST/DIR:** 0.00 -- **MAP ID:** 9

NAME: CONFIDENTIAL
ADDRESS: 101 JAMES DOOLITTLE BLVD
UNIONDALE NY 11553
NASSAU
CONTACT:

REV: 11/22/02
ID1: NAFM-3479
ID2:
STATUS: NC FIRE MARSHAL
PHONE:

SITE INFORMATION

AT THE REQUEST OF THE NASSAU COUNTY FIRE MARSHAL DETAILS ARE NOT AVAILABLE. FOR FURTHER INFORMATION PLEASE CONTACT THEM AT THE FOLLOWING PHONE NUMBER (516) 572-1000

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 163 **DIST/DIR:** 0 01 SE **MAP ID:** 57

NAME: TEN MINUTE OIL CHANGE
ADDRESS: 1156 HEMPSTEAD TURNPIKE
UNIONDALE NY
NASSAU
CONTACT:

REV: 02-06-98
ID1: N-056501
ID2:
STATUS:
PHONE:

TANK DETAIL(s)

TANK No.: 0001
INSTALLED: 07/93
CAPACITY: 1000
STATUS: IN SERVICE
MATERIAL TYPE: FRESH / PRODUCT
PRODUCT: OIL, MOTOR

TANK TYPE: STEEL
LOCATION: INDOORS ABOVEGROUND
INTERNAL PROTECTION: NONE
EXTERNAL PROTECTION: PAINTED / ASPHALT COATING
PIPING: STEEL/ IRON

SECONDARY CONTAINMENT: DIKING AND PAD
LEAK DETECTION: ELECTRONIC
DISPENSER: SUCTION
FILL TYPE: PUMPED **PRODUCT GAUGE:** YES

<>----------<>----------<>

TANK No.: 0002
INSTALLED: 07/93
CAPACITY: 500
STATUS: IN SERVICE
MATERIAL TYPE: FRESH / PRODUCT
PRODUCT: OIL, MOTOR

TANK TYPE: STEEL
LOCATION: INDOORS ABOVEGROUND
INTERNAL PROTECTION: NONE
EXTERNAL PROTECTION: PAINTED / ASPHALT COATING
PIPING: STEEL/ IRON

SECONDARY CONTAINMENT: DIKING AND PAD
LEAK DETECTION: ELECTRONIC
DISPENSER: SUCTION
FILL TYPE: PUMPED **PRODUCT GAUGE:** YES

<>----------<>----------<>

TANK No.: 0003
INSTALLED: 07/93
CAPACITY: 280
STATUS: IN SERVICE
MATERIAL TYPE: FRESH / PRODUCT
PRODUCT: OIL, MOTOR

TANK TYPE: STEEL
LOCATION: INDOORS ABOVEGROUND
INTERNAL PROTECTION: NONE
EXTERNAL PROTECTION: PAINTED / ASPHALT COATING
PIPING: STEEL/ IRON

SECONDARY CONTAINMENT: DIKING AND PAD
LEAK DETECTION: ELECTRONIC
DISPENSER: SUCTION

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 163 **DIST/DIR:** 0 01 SE **MAP ID:** 57

NAME: TEN MINUTE OIL CHANGE
ADDRESS: 1156 HEMPSTEAD TURNPIKE
UNIONDALE NY
NASSAU
CONTACT:

REV: 02-06-98
ID1: N-056501
ID2:
STATUS:
PHONE:

FILL TYPE: PUMPED **PRODUCT GAUGE:** YES

TANK No.: 0004
INSTALLED: 07/93
CAPACITY: 280
STATUS: IN SERVICE
MATERIAL TYPE: FRESH / PRODUCT
PRODUCT: TRANSMISSION FLUID

TANK TYPE: STEEL
LOCATION: INDOORS ABOVEGROUND
INTERNAL PROTECTION: NONE
EXTERNAL PROTECTION: PAINTED / ASPHALT COATING
PIPING: STEEL/ IRON

SECONDARY CONTAINMENT: DIKING AND PAD
LEAK DETECTION: ELECTRONIC
DISPENSER: SUCTION
FILL TYPE: PUMPED **PRODUCT GAUGE:** YES

TANK No.: 0005
INSTALLED: 07/93
CAPACITY: 650
STATUS: IN SERVICE
MATERIAL TYPE: WASTE
PRODUCT: WASTE OIL

TANK TYPE: STEEL
LOCATION: INDOORS ABOVEGROUND
INTERNAL PROTECTION: NONE
EXTERNAL PROTECTION: PAINTED / ASPHALT COATING
PIPING: STEEL/ IRON

SECONDARY CONTAINMENT: DOUBLE WALLED TANK
LEAK DETECTION: ELECTRONIC
DISPENSER: SUCTION
FILL TYPE: PUMPED **PRODUCT GAUGE:** YES

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 164 **DIST/DIR:** 0 01 SE **MAP ID:** 57

NAME:	ULTRA LUBE II, INC	**REV:**	5/28/02
ADDRESS:	1156 HEMPSTEAD TNPK	**ID1:**	N-057505
	UNIONDALE NY	**ID2:**	
	NASSAU	**STATUS:**	ACTIVE FACILITY
CONTACT:		**PHONE:**	

SITE INFORMATION

OWNER: JOHN MOTISI
1156 HEMPSTEAD TNPK
UNIONDALE NY 11553

PERMITTEE: A S F REALTY
2 GALLAGHER CT
GREAT NECK NY 11021

TANK INFORMATION

TANK NUMBER:	0001	**TANK STATUS:**	IN SERVICE
INSTALLED:	051993	**MATERIAL TYPE:**	FRESH / PRODUCT
TANK CAPACITY:	00001000 GALLONS	**PRODUCT:**	OIL, MOTOR
TANK TYPE:	STEEL		
TANK LOCATION:	INDOORS ABOVE GROUND		
INTERNAL PROTECTION:	NONE		
EXTERNAL PROTECTION:	PAINTED/ASPHALT COATING		
PIPING:	STEEL/ IRON		
SECONDARY CONTAINMENT:	DIKING AND PAD		
LEAK DETECTION:	NONE		
DISPENSER:	SUBMERSIBLE PUMP		
FILL TYPE:	PUMPED		
PRODUCT GAUGE:	YES		

TANK NUMBER:	0002	**TANK STATUS:**	IN SERVICE
INSTALLED:	051993	**MATERIAL TYPE:**	FRESH / PRODUCT
TANK CAPACITY:	00000500 GALLONS	**PRODUCT:**	OIL, MOTOR
TANK TYPE:	STEEL		
TANK LOCATION:	INDOORS ABOVE GROUND		
INTERNAL PROTECTION:	NONE		
EXTERNAL PROTECTION:	PAINTED/ASPHALT COATING		
PIPING:	STEEL/ IRON		
SECONDARY CONTAINMENT:	DIKING AND PAD		
LEAK DETECTION:	NONE		
DISPENSER:	SUBMERSIBLE PUMP		
FILL TYPE:	PUMPED		
PRODUCT GAUGE:	YES		

- Continued on next page -

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 164 **DIST/DIR:** 0.01 SE **MAP ID:** 57

NAME: ULTRA LUBE II, INC
ADDRESS: 1156 HEMPSTEAD TNPK
UNIONDALE NY
NASSAU
CONTACT:

REV: 5/28/02
ID1: N-057505
ID2:
STATUS: ACTIVE FACILITY
PHONE:

TANK NUMBER: 0003
INSTALLED: 051993
TANK CAPACITY: 00000280 GALLONS
TANK STATUS: IN SERVICE
MATERIAL TYPE: FRESH / PRODUCT
PRODUCT: OIL, MOTOR

TANK TYPE: STEEL
TANK LOCATION: INDOORS ABOVE GROUND
INTERNAL PROTECTION: NONE
EXTERNAL PROTECTION: PAINTED/ASPHALT COATING
PIPING: STEEL/ IRON

SECONDARY CONTAINMENT: DIKING AND PAD
LEAK DETECTION: NONE
DISPENSER: SUBMERSIBLE PUMP
FILL TYPE: PUMPED
PRODUCT GAUGE: YES

TANK NUMBER: 0004
INSTALLED: 051993
TANK CAPACITY: 00000280 GALLONS
TANK STATUS: IN SERVICE
MATERIAL TYPE: FRESH / PRODUCT
PRODUCT: TRANSMISSION FLUID

TANK TYPE: STEEL
TANK LOCATION: INDOORS ABOVE GROUND
INTERNAL PROTECTION: NONE
EXTERNAL PROTECTION: PAINTED/ASPHALT COATING
PIPING: STEEL/ IRON

SECONDARY CONTAINMENT: DIKING AND PAD
LEAK DETECTION: NONE
DISPENSER: SUBMERSIBLE PUMP
FILL TYPE: PUMPED
PRODUCT GAUGE: YES

TANK NUMBER: 0005
INSTALLED: 051993
TANK CAPACITY: 00000650 GALLONS
TANK STATUS: IN SERVICE
MATERIAL TYPE: WASTE
PRODUCT: WASTE OIL

TANK TYPE: STEEL
TANK LOCATION: INDOORS ABOVE GROUND
INTERNAL PROTECTION: NONE
EXTERNAL PROTECTION: PAINTED/ASPHALT COATING
PIPING: STEEL/ IRON

SECONDARY CONTAINMENT: DIKING AND PAD
LEAK DETECTION: NONE
DISPENSER: SUBMERSIBLE PUMP
FILL TYPE: PUMPED

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 156 **DIST/DIR:** 0.02 NW **MAP ID:** 53

NAME:	CONFIDENTIAL	**REV:**	11/22/02
ADDRESS:	100 QUENTIN ROOSEVELT BLVD	**ID1:**	NAFM-3035
	EAST GARDEN CITY NY 11530	**ID2:**	
	NASSAU	**STATUS:**	NC FIRE MARSHAL
CONTACT:		**PHONE:**	

SITE INFORMATION

AT THE REQUEST OF THE NASSAU COUNTY FIRE MARSHAL DETAILS ARE NOT AVAILABLE. FOR FURTHER INFORMATION PLEASE CONTACT THEM AT THE FOLLOWING PHONE NUMBER (516) 572-1000

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 162 **DIST/DIR:** 0.14 NW **MAP ID:** 3

NAME:	LABORATORY CORP OF AMER	**REV:**	
ADDRESS:	51 CHARLES LINDBERGH BLVD	**ID1:**	N-001330
	UNIONDALE NY	**ID2:**	
	Nassau	**STATUS:**	AST
CONTACT:		**PHONE:**	

	Tanks	Installed	Capacity
CURRENT:	2	APR 96	50
REMOVED:	0		
PERMANENT:	0		
UNKNOWN:	0		
TEMP:	0		
CLOSED:	0		

PRODUCTS: SODIUM HYDROXIDE. HYDROCHLORIC ACID
TANK MATERIAL: PLASTIC
PIPE MATERIAL: OTHER

Environmental FirstSearch
Site Detail Report

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 154 **DIST/DIR:** 0.15 NW **MAP ID:** 6

NAME:	CONFIDENTIAL	**REV:**	11/22/02
ADDRESS:	333 EARLE OVINGTON BLVD	**ID1:**	NAFM-4313
	UNIONDALE NY 11553	**ID2:**	
	NASSAU	**STATUS:**	NC FIRE MARSHAL
CONTACT:		**PHONE:**	

SITE INFORMATION

AT THE REQUEST OF THE NASSAU COUNTY FIRE MARSHAL DETAILS ARE NOT AVAILABLE. FOR FURTHER INFORMATION PLEASE CONTACT THEM AT THE FOLLOWING PHONE NUMBER (516) 572-1000

Environmental FirstSearch
Street Name Report for Streets within .25 Mile(s) of Target Property

TARGET SITE: 1255 HEMPSTEAD TPKE
UNIONDALE NY 11553

JOB: NOR-04-36
NASSAU VETERANS MEMORIAL COLISEUM

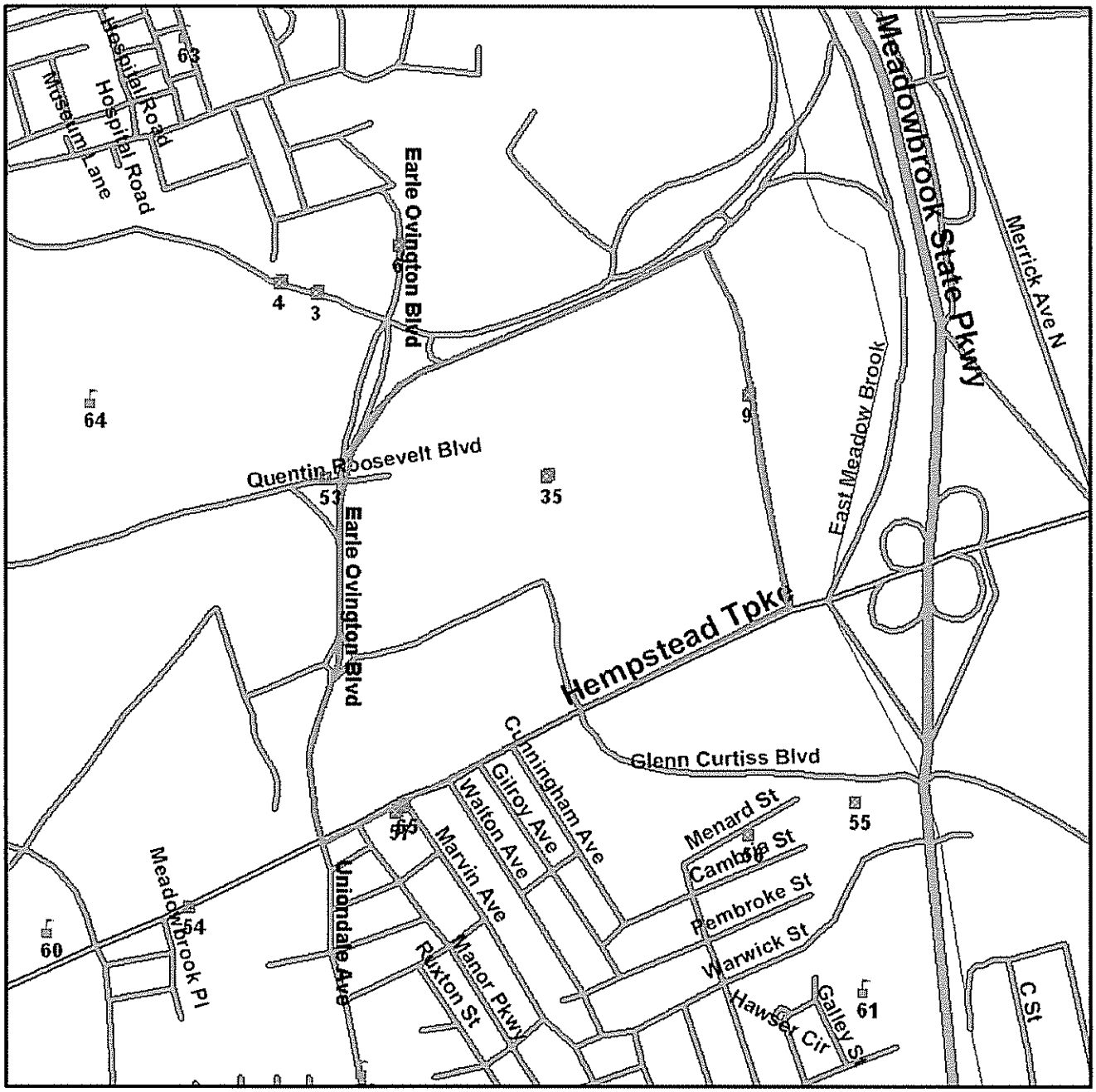
Street Name	Dist/Dir	Street Name	Dist/Dir
Arcadia Ave	0.22 SE		
Baldwin Ct	0 13 SE		
Belmont Pl	0 21 SW		
Cambria St	0 25 SE		
Charles Lindbergh Bl	0.00 --		
Cornelius Ct	0.25 SE		
Cunningham Ave	0.00 --		
Earle Ovington Blvd	0.00 --		
Gerald St	0 17 SE		
Gilroy Ave	0.00 --		
Glen Curtiss Blvd	0.00 --		
Glenn Curtiss Blvd	0.00 --		
Hempstead Bethpage T	0.00 --		
Hempstead Tpke	0.00 --		
Huntington Pl	0.24 SW		
James Doolittle Blvd	0.00 --		
Lindy Pl	0 15 SE		
Manor Pky	0 00 --		
Marvin Ave	0.00 --		
Mc Kenna Pl	0 03 SE		
Meadowbrook Pl	0.20 SW		
Meadowbrook State Pk	0.05 NE		
Meadowbrook State Pk	0.17 -E		
Menard St	0.21 SE		
Merrillon St	0.07 SE		
Myron St	0.12 SE		
Quentin Roosevelt Bl	0.00 --		
Ruxton St	0.18 SE		
Uniondale Ave	0 00 --		
Walton Ave	0 01 SE		

Environmental FirstSearch

.25 Mile Radius from Area

ASTM Map: RCRAGEN, ERNS, UST

1255 HEMPSTEAD TPKE, UNIONDALE NY 11553



Source: 2002 U.S. Census TIGER Files

Area Polygon

Identified Site, Multiple Sites, Receptor

NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste

Railroads

Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.5 Mile Radius from Area

ASTM Map: CERCLIS, RCRATSD, LUST, SWL

1255 HEMPSTEAD TPKE, UNIONDALE NY 11553

Source: 2002 U.S. Census TIGER Files

Area Polygon

Identified Site, Multiple Sites, Receptor

NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste

Railroads

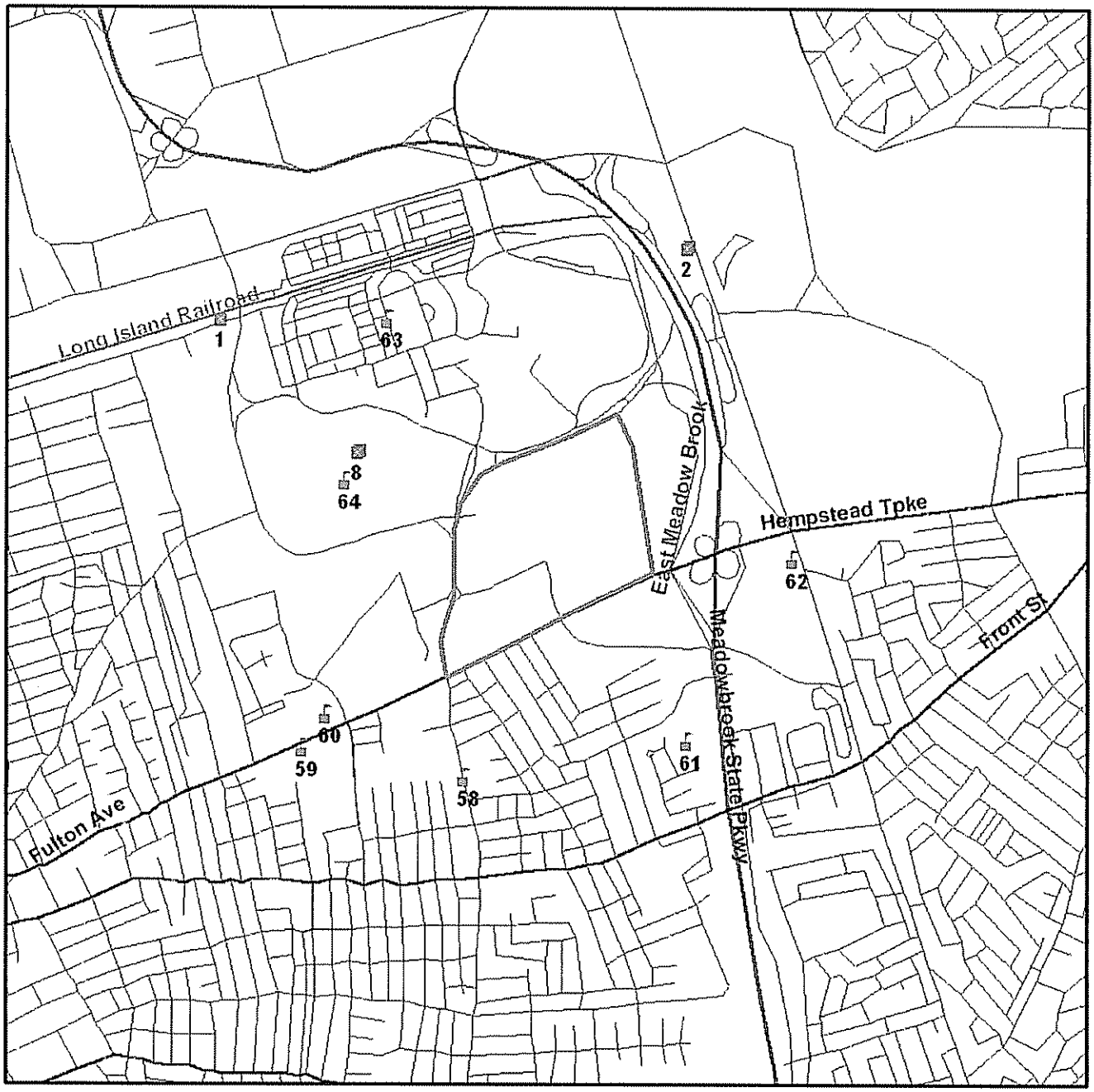
Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

1 Mile Radius from Area

ASTM Map: NPL, RCRACOR, STATE Sites

1255 HEMPSTEAD TPKE, UNIONDALE NY 11553



Source: 2002 U.S. Census TIGER Files

Area Polygon

Identified Site, Multiple Sites, Receptor

NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste

Railroads

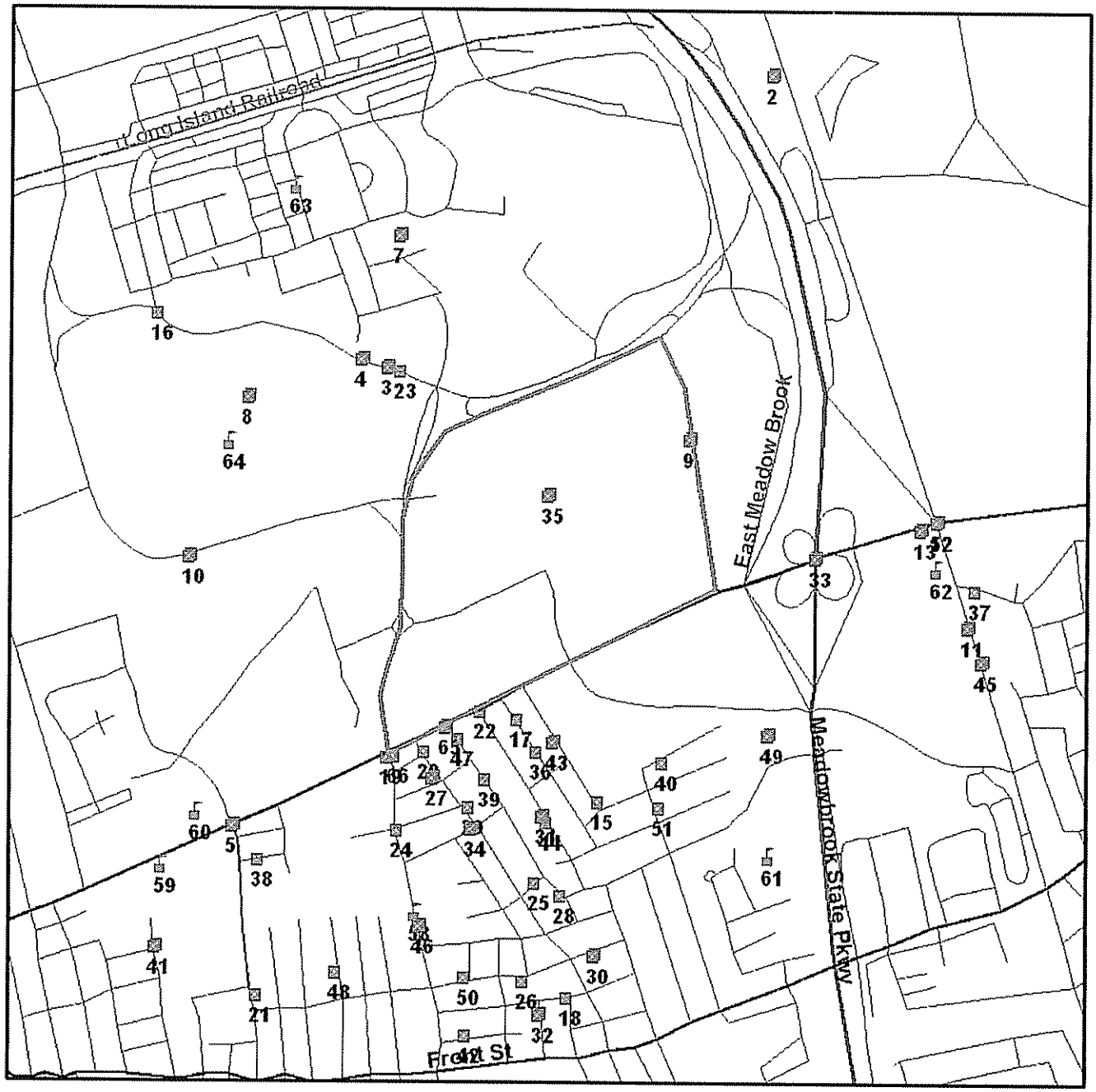
Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.5 Mile Radius from Area

Non-ASTM Map: Multiple Databases

1255 HEMPSTEAD TPKE, UNIONDALE NY 11553



Source: 2002 U.S. Census TIGER Files

Area Polygon

Identified Site, Multiple Sites, Receptor

NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste

National Historic Sites and Landmark Sites

Soil Sites

Railroads

Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

APPENDIX H

STANDARD FORM 254

STANDARD FORM (SF)

254

Architect-Engineer Related Services Questionnaire

1. Firm Name / Business Address:

Freudenthal & Elkowitz Consulting Group, Inc.
368 Veterans Memorial Highway
Commack, New York 11725

1a. Submittal is for ☒ Parent Company ☐ Branch or Subsidiary Office

2. Year Present Firm Established: 1988

3. Date Prepared:

4. Specify type of ownership and check below, if applicable:

Public Corporation ☐
Small Business X
Small Disadvantaged Business ☐
Woman-Owned Business X

5. Name of Parent Company, if any:

N/A

5a. Former Parent Company Name(s), if any, and Year(s) Established:

N/A

6. Names of not more than Two Principals to Contact: Title / Telephone:

Theresa Elkowitz, President - (631) 499-2222

7. Present Offices: City/State/Telephone/Number Personnel Each Office

Commack, New York, 11725

(631) 499-2222

No of Personnel: 15

Total Personnel

8. Personnel by Discipline: *(List each person only once, by primary function.)*

3	Administrative		Estimators		Soils		Health Experts
	Architects	2	Geologists		Engineers/Technicians		Hazardous Waste Specialists
	Chemical Engineers		Hydrologists		Specification Writers		Data Processing Experts
	Civil Engineers		Interior Designers		Structural Engineers		CAD/CADD Experts
	Construction Inspectors		Landscape Architects		Surveyors		Construction Experts
	Draftsmen		Mechanical Engineers	4	Transportation Engineers		Water Resource Experts
1	Ecologists		Mining Engineers		Environmentalists		Safety Engineers
	Economists		Oceanographers		Biologists		Technical Field Support
	Electrical Engineers	5	Planners: Urban/Regional		Laboratory Experts		
			Sanitary Engineers		Chemical Experts		

TOTAL PERSONNEL 15

Experience Profile Code Numbers for use with questions 10 and 11

001 Acoustics; Noise Abatement
002 Aerial Photogrammetry
003 Agricultural Development; Grain Storage; Farm Mechanization
004 Air Pollution Control
005 Airports; Navaids; Airport Lighting; Airport Fueling
006 Airports; Terminals & Hangars; Freight Handling
007 Arctic Facilities
008 Auditoriums & Theaters
009 Automation; Controls; Instrumentation
010 Barracks; Dormitories
011 Bridges
012 Cemeteries (Planning & Relocation)
013 Chemical Processing & Storage
014 Churches; Chapels
015 Codes; Standards; Ordinances
016 Cold Storage; Refrigeration; Fast Freeze
017 Commercial Buildings (low rise); Shopping Centers
018 Communication Systems; TV; Microwave
019 Computer Facilities; Computer Service
020 Conservation and Resource Management
021 Construction Management
022 Corrosion Control; Cathodic Protection; Electrolysis
023 Cost Estimating
024 Dams (Concrete; Arch)
025 Dams (Earth; Rock); Dikes; Levees
026 Desalinization (Process & Facilities)
027 Dining Halls; Clubs; Restaurants
028 Ecological & Archeological Investigations
029 Educational Facilities; Classrooms
030 Electronics
031 Elevators; Escalators; People-Movers
032 Energy Conservation; New Energy Sources
033 Environmental Impact Studies; Assessments or Statements
034 Fallout Shelters; Blast-Resistant Design
035 Field Houses; Gyms; Stadiums
036 Fire Protection
037 Fisheries; Fish Ladders
038 Forestry & Forest Products
039 Garages; Vehicle Maintenance Facilities; Parking Decks
040 Gas Systems (Propane; Natural; Etc.)
041 Graphic Design
042 Harbors; Jetties; Piers; Ship Terminal Facilities
043 Heating; Ventilation; Air Conditioning
044 Health Systems Planning
045 Highrise; Air-Rights-Type Building
046 Highways; Streets; Airfield; Paving; Parking Lots
047 Historical Preservation
048 Hospital & Medical Facilities
049 Hotels; Motels
050 Housing (Residential, Multi-Family; Apartments; Condominiums)
051 Hydraulics & Pneumatics
052 Industrial Buildings; Manufacturing Plants
053 Industrial Processes; Quality Control
054 Industrial Waste Treatment
055 Interior Design; Space Planning
056 Irrigation; Drainage
057 Judicial and Courtroom Facilities
058 Laboratories; Medical Research Facilities
059 Landscape Architecture
060 Libraries; Museums; Galleries
061 Lighting (Interiors; Display; Theater; Etc.)
062 Lighting (Exteriors; Streets; Memorials; Athletic Fields; Etc.)
063 Materials Handling Systems; Conveyors; Sorters
064 Metallurgy
065 Microclimatology; Tropical Engineering
066 Military Design Standards
067 Mining & Mineralogy
068 Missile Facilities (Silos; Fuels; Transport)
069 Modular Systems Design; Pre-Fabricated Structures or Components
070 Naval Architecture; Off-Shore Platforms
071 Nuclear Facilities; Nuclear Shielding
072 Office Buildings; Industrial Parks
073 Oceanographic Engineering
074 Ordnance; Munitions; Special Weapons
075 Petroleum Exploration; Refining
076 Petroleum and Fuel (Storage and Distribution)
077 Pipelines (Cross-Country - Liquid & Gas)
078 Planning (Community, Regional, Areawide and State)
079 Planning (Site, Installation, and Project)
080 Plumbing & Piping Design
081 Pneumatic Structures; Air-Support Buildings
082 Postal Facilities
083 Power Generation, Transmission, Distribution
084 Prisons & Correctional Facilities
085 Product, Machine & Equipment Design
086 Radar; Sonar; Radio & Radar Telescopes
087 Railroad; Rapid Transit
088 Recreation Facilities (Parks; Marinas; Etc.)
089 Rehabilitation (Buildings; Structures; Facilities)
090 Resource Recovery; Recycling
091 Radio Frequency Systems & Shielding
092 Rivers; Canals; Waterways; Flood Control
093 Safety Engineering; Accident Studies; OSHA Studies
094 Security Systems; Intruder & Smoke Detection
095 Seismic Designs & Studies
096 Sewage Collection; Treatment; and Disposal
097 Soils & Geologic Studies; Foundations
098 Solar Energy Utilization
099 Solid Wastes; Incineration; Landfill
100 Special Environments; Clean Rooms; Etc.
101 Structural Design; Special Structures
102 Surveying; Platting; Mapping; Flood Plain Studies
103 Swimming Pools
104 Stormwater Handling & Facilities
105 Telephone Systems (Rural; Mobile; Intercom; Etc.)
106 Testing & Inspection Services (Phase I)
107 Traffic & Transportation Engineering
108 Towers (Self-Supporting & Guyed Systems)
109 Tunnels & Subways
110 Urban Renewals; Community Development
111 Utilities (Gas & Stream)
112 Value Analysis; Life-Cycle Costing
113 Warehouses & Depots
114 Water Resources; Hydrology; Groundwater
115 Water Supply; Treatment; and Distribution
116 Wind Tunnels; Research/Testing Facilities Design
117 Zoning; Land Use Studies
201 _____
202 _____
203 _____
204 _____
205 _____
206 _____
207 _____

9. Summary of Professional Services Fees Received: *(Insert Index Number)*

	Last 5 Years (most recent year first)				
	2001	2000	1999	1998	1997
Direct federal contract work, including overseas					
All other domestic work	4	4	4	4	4
All other foreign work*					

**Firms interested in foreign work, but without such experience, check here:* ☐

Ranges of Professional Services Fees Index

1. Less than $100,000
2. $100,000 to $250,000
3. $250,000 to $1 million
4. $500,000 to 2 million
5. $1 million to $2 million
6. $2 million to $5 million
7. $5 million to $10 million
8. $10 million or greater

10. Profile of Firm's Project Experience, Last 5 Years

Profile Code	Number of Projects	Total Gross Fees (in thousands)	Profile Code	Number of Projects	Total Gross Fees (In Thousands)	Profile Code	Number of Projects	Total Gross Fees (In Thousands)
1) 028	47	141	11)			21)		
2) 033	35	1029	12)			22)		
3) 078	20	100	13)			23)		
4) 106	429	1626	14)			24)		
5) 110	12	200	15)			25)		
6) 114	40	175	16)			26)		
7) 117	18	54	17)			27)		
8)			18)			28)		
9)			19)			29)		
10)			20)			30)		

11. Project Examples, Last 5 Years

Profile Code	"P", "C" "JV", or "IE",	Project Name and Location	Owner Name and Address	Cost of Work (In Thousands)	Completion Date (Actual or Estimated)
028 033	C	Proposed Cellular Monopole Site Ecological Investigation and Environmental Report Lakeview, New York	Howard Pachman, Esq. Pachman, Pachman & Brown 366 Veterans Mem'l Hwy Commack, NY 11725	10	1997

Profile Code	"P", "C" "JV", or "IE".	Project Name and Location	Owner Name and Address	Cost of Work (In Thousands)	Completion Date (Actual or Estimated)
028	C	Lakeview Homes Wetland Investigation Patchogue, New York	David Scro, Esq. Scro & Scro Properties 48 S. Service Road Melville, NY 11747	5	1996
028 033	C	The Sikh Forum, Inc. Environmental Impact Statement Glen Cove, New York	The Sikh Forum, Inc. c/o Peter Mineo, Esq. Forchelli, Curto, Schwartz et al. 330 Old Country Road Mineola, NY 11501	20	1997
033 078 110 117	C	Glen Cove Creek Rezoning and Redevelopment Environmental Impact Statement Glen Cove, New York	Anthony Maurino, Esq. City of Glen Cove City Hall Glen Cove, NY 11542	73	1999
028 033 106	C	Nassau County Property Rezoning Environmental Impact Statement Plainview, New York	Robert Manniello Land Design Assoc., P.C. 91 Green Street Huntington, NY 11743	80	1996
033	C	Serota Plaza Environmental Impact Statement Riverhead, New York	Nathan L. Serota Serota Organization 70 East Sunrise Hwy Valley Stream, NY 11581	35	1997
033	C	Kensico Water Pollution Control Program Environmental Impact Statement Westchester, New York	NYC Dept. of Env. Protection c/o Niek Veraart Roy F. Weston of NY 130 West 30th Street New York, NY 10001	150	1995
033	C	Fresh Kills Landfill Environmental Impact Statement Staten Island, New York	NYC Dept. of Sanitation c/o Niek Veraart Roy F. Weston of NY 130 West 30th Street New York, NY 10001	150	1995
028 033	C	South Shore Shopping Park Environmental Impact Statement Holbrook, New York	Nathan L. Serota Serota Organization 70 East Sunrise Hwy Valley Stream, NY 11581	30	1997

Profile Code	"P", "C" "JV", or "IE",	Project Name and Location	Owner Name and Address	Cost of Work (In Thousands)	Completion Date (Actual or Estimated)
033 078 117	C	Incorporated Village of Lake Success Planning, Zoning and Environmental Review Lockheed Martin Property Lake Success, New York	Village of Lake Success c/o Peter Mineo, Esq. Forchelli, Curto, Schwartz etal. 330 Old Country Road Mineola, New York	60	2000
028 033	C	Mexpoint, Inc. Wetland Investigation and Permitting Environmental Impact Statement Kings Point, New York	Mexpoint, Inc. c/o Kenneth Auerbach, Esq. Farrell, Fritz, et al. EAB Plaza Uniondale, NY 11556	100	2000
033	C	Sisters of St. Dominic Health Care Center Environmental Impact Statement N. Amityville, New York	George Rice, Esq. Bennett, Rice & Schure 255 Merrick Road Rockville Centre, NY 11571	20	1996
033	C	Commack Properties Redevelopment Environmental Impact Statement Commack, New York	Roger Smith Burton, Behrendt & Smith 475 Main Street Patchogue, NY 11772	55	1996
028 033	C	Nassau County Boy Scout Camp Ecological Investigation and Environmental Assessment Riverhead, New York	Nassau County Boy Scouts c/o Andrew Cangemi, Esq. Siegel, Fenchel & Peddy 777 Zeckendorf	10	1996
033 106	C	Gleam Street Asphalt Plant Environmental Assessment and Noise Evaluation West Babylon, New York	Cassata Enterprises c/o Leonard Genova, Esq. One Huntington Quadrangle Suite One - North Four Melville, NY 11747	25	1997
028 078 110 117	C	Local Waterfront Revitalization Program, Subdivision Regulations and General Environmental and Planning Services Manorhaven, New York	James Bradley, Esq. Village Attorney Inc. Village of Manorhaven c/o Humes & Wagner 147 Forest Avenue	65	1999
033 078 106 117	C	Roosevelt Raceway Redevelopment Environmental Impact Statement Phase I and Phase II Environmental Site Assessments Westbury, New York	Gary Davis Edward J. Minskoff Equities 1325 Ave. of the Americas New York, NY 10019	150	1997

Profile Code	"P", "C" "JV", or "IE",	Project Name and Location	Owner Name and Address	Cost of Work (In Thousands)	Completion Date (Actual or Estimated)
033 078	C	Watersedge at Sands Point Zoning and Planning Services Sands Point, New York	Mayor Leonard Wurzel Inc. Village of Sands Point P.O. Box 188 Port Washington. NY 11050	15	1997
033 110	C	Suffolk County Water Authority Water Supply Interconnection and Water Main Extension Environmental Impact Statement East Hampton. New York	E. J. Rosavitch, P.E. Suffolk County Water Auth. 4060 Sunrise Highway Oakdale, New York 11769	40	1997
028 033 114 117	C	Timber Ridge at Stony Brook Environmental Impact Statement Stony Brook, New York	Donald Eversoll Klein & Eversoll 631 Commack Road Commack, New York 11725	50	2000
033 078 106	C	Phase I and II Environmental Site Assessment and Market Study South Oaks Amityville, New York	Robert Murphy Catholic Health Systems One Huntington Quadrangle Melville, New York 11747	50	1999
106	C	Commack Arena Phase I and Phase II Environmental Site Assessments and Remediation Management Commack, New York	Gene Berry Smithtown Ventures, LLC 145 South Fairfax Ave Fourth Floor Los Angeles, CA 90036	70	1997
106	C	Computer Color Graphics Phase II Environmental Site Assessment and Remediation Management, and On-going Regulatory Compliance Farmingdale, New York	Computer Color Graphics c/o E. Weisbein, Esq. Garden City Center 100 Quentin Rsvlt. Blvd Garden City, NY 11530	30	2000
106	C	Parker Jewish Institute for Health Care and Rehabilitation Phase I and II Environmental Site Assessments, UIC Remediation Management New Hyde Park, New York	Louis DiGiovanni Parker Jewish Institute for Health Care & Rehabilitation 271-11 76th Avenue New Hyde Park, N.Y.	75	1999
106	C	Abandoned Boat Yard Phase I Environmental Site Assessment Freeport, New York	Michael Solomon, Esq. Village Attorney Inc. Village of Freeport 46 N. Ocean Avenue Freeport, NY 11520	3	1996

Profile Code	"P", "C" "JV", or "IE".	Project Name and Location	Owner Name and Address	Cost of Work (In Thousands)	Completion Date (Actual or Estimated)
106 033	C	Memorial Sloan-Kettering Cancer Center Phase I and Phase II Environmental Site Assessments and Environmental Assessment, Remediation Management Commack, New York	James Harden Memorial Sloan-Kettering Cancer Center 1275 York Avenue New York, New York 10021	20	1999
110	C	Affordable Housing Grant Preparation and General Planning/Environmental Services Nassau and Suffolk Counties, New York	Jim Morgo, President L. I. Housing Ptnrshp, Inc. 180 Oser Avenue Hauppauge, NY 11788	100	On Retainer
114	C	Groundwater Investigations - El Paso Gas (Tenneco) Stations 229, 237 and 241 Northwestern New York State	Lori Clarke Eco-Systems, Inc. 6475 Van Buren Street Second Floor Daphne, AL 36526	20	1998
106 114	C	International Computer Components Phase II Environmental Site Assessment and Remediation Management	Fred Grossman ICC 105 Maxess Road Melville, New York 11747	35	1997
114	C	PS 24 Remediation and Expert Testimony/Litigation Support Brooklyn, New York	James Nuccio Roy F. Weston of NY 130 West 30th Street New York, NY 10001	10	1997

12. The foregoing is a statement of facts

Signature: _____ Typed Name and Title: Theresa Elkowitz, President

Date:

STANDARD FORM 255

STANDARD FORM (SF) 255
Architect-Engineer Related Services for Specific Project

1. Project Name/Location For Which Firm Is Filing:

2a. Commerce Business Daily Announcement Date, if any:

2b. Agency Identification Number, if any:

3. Firm (or Joint-Venture) Name & Address

Freudenthal & Elkowitz Consulting Group, Inc.
368 Veterans Memorial Highway
Commack, New York 11725

3a. Name Title & Telephone Number of Principal to Contact

Theresa Elkowitz, President
(631) 499-2222

3b. Address of office to perform work, if different from item 3

4. Personnel by Discipline: (list each person only once, by primary function.) Enter proposed consultant personnel to be utilized on this project on line (A) and in-house personnel on line (B).

(A)	(B)		(A)	(B)		(A)	(B)		(A)	(B)	
3		Administration			Estimators			Sanitary Engineers			Chemical Experts
		Architects	2		Geologists			Soils Engineers			Health Experts
		Chemical Engineers			Hydrologists			Specification Writers			Hazardous Waste Specialists
		Civil Engineers			Interior Designers			Structural Engineers			Data Processing Experts
		Construction Inspectors			Landscape Architects			Surveyors			CAD/CADD Experts
		Draftsmen			Mechanical Engineers			Transportation Engineers			Construction Experts
		Ecologists			Mining Engineers	4		Environmentalists			Water Resources
1		Economists			Oceanographers			Biologists			Safety Engineers
		Electrical Engineers	5		Planners: Urban/Regional			Laboratory Experts			Technical Field Support

TOTAL: 15

6. If respondent is not a joint-venture, list outside Consultants/Associates anticipated for this project (Attach SF 254 Consultants/Associates listed, if not already on file with the contracting office).

Name & Address	Specialty	Worked with Prime before (Yes or No)
1)		
2)		
3)		
4)		
5)		
6)		
7)		

7. Brief Resume of Key Persons, Specialists, and individual consultants anticipated for this project.

a. Name & Title:
Theresa Elkowitz, Principal

b. Project Assignment:
Environmental Planning /Project Manager

c. Name of Firm with which associated:
Freudenthal & Elkowitz Consulting Group, Inc.

d. Years Experience: With This Firm 13 With Other Firms 5

e. Education: Degree(s)/Year/Specialization
M.S. Policy Analysis and Public Management (Urban Planning) 1985
B.A., Liberal Arts, Economics Specialization, 1985

f. Active Registration: Year First Registered/Discipline

g. Other Experience and Qualifications relevant to the proposed project

Theresa Elkowitz is the president of Freudenthal & Elkowitz Consulting Group, Inc. (F&E), an environmental and planning consulting firm. She is well-versed in the State Environmental Quality Review (SEQR) process and has prepared numerous Environmental Assessment Forms (EAFs); Draft and Final Environmental Impact Statements (DEIS and FEIS); planning and zoning studies, visual assessments; environmental assessments and associated evaluations. Not only has she worked with public and private clients on the administration of the SEQR, but she also serves as Chairperson of the Suffolk County Council on Environmental Quality (CEQ). The CEQ is responsible for recommending SEQR determinations, holding public hearings and administration of the environmental review process for actions proposed by the County of Suffolk.

Ms. Elkowitz provides expert testimony and affidavits to various Town and Village Boards, Planning Boards and Zoning Boards of Appeals on planning, zoning and environmental matters and has provided testimony and affidavits in court cases. Ms. Elkowitz has also served as Municipal Planner and/or provided consulting planning and/or environmental services to the Incorporated Villages of Lake Success, Manorhaven, Great Neck Estates, Old Brookville, Brookville and Sands Point and the Town of Babylon and City of Glen Cove.

In addition, to ensure compliance with SEQR, Ms. Elkowitz provides environmental consulting services to various school districts including, but not limited to: Cold Spring Harbor, East Quogue, Half Hollow Hills, Jericho, Lindenhurst, Three Village, Plainview-Old Bethpage, Rocky Point, East Williston, Eastport-South Manor, Westhampton Beach, Harborfields, Patchogue-Medford, Port Washington, East Moriches, Smithtown, Bay Shore, Kings Park, Commack, Oyster Bay-East Norwich, Bellmore-Merrick, Seaford and Wantagh and to various public libraries including, but not limited to: Manhasset, East Islip and Hauppauge.

Prior to forming F&E, Ms. Elkowitz spent several years managing environmental projects for a consulting engineering firm. She has been involved in many diverse projects including the preparation of Draft and Final Environmental Impact Statements (EISs), Local Waterfront Revitalization Programs, wetland evaluations, water use and conservation plans, municipal and private planning studies, grant applications, as well as solid waste management plans and Part 360 permit applications.

Representative projects/documents which Ms. Elkowitz has supervised, prepared and/or had a significant preparatory role include, but are not limited to:

- DEIS and related SEQR/CEQR Documentation for Kensico Water Pollution Control Program for New York City Department of Environmental Protection;
- DEIS and related SEQR/CEQR Documentation for Fresh Kills Landfill for New York City Department of Sanitation;
- EAFs, DEISs, Determinations of Significance and Notices for various School Districts;
- DEIS for Rezoning of 147+ acre Nassau County Property for Nassau County;
- DEIS and FEIS for Rezoning of 170+ acre Roosevelt Raceway for property owner;
- Various Planning, Zoning, Environmental and Visual Assessments for Public Utility Communications Facilities and other Wireless Carriers including SEQRA and NEPA Compliance;
- DEIS and FEIS for development of 18 hole golf course and multi-family apartments in the Town of Brookhaven; and
- LWRP and environmental and planning tasks for Incorporated Village of Manorhaven including drafting of subdivision regulations;

7. Brief Resume of Key Persons, Specialists, and individual consultants anticipated for this project.

a. Name & Title:

Richard J. Baldwin, Vice President, Environmental Services

b. Project Assignment:

Senior Hydrogeologist

c. Name of Firm with which associated:

Freudenthal & Elkowitz Consulting Group, Inc.

d. Years Experience: With This Firm 2 With Other Firms 14

e. Education: Degree(s)/Year/Specialization: Graduate Course Work, State Jose State University, 1985-1988. BA Geology, San Francisco State University, 1982. Princeton Groundwater Hydrogeology and Pollution course. Env. Law and Regulations Course, U.C. Berkeley Extension, NGWA MODFLOW and MODPATH Modeling Course, NGWA Visual MODFLOW Modeling

f. Active Registration: Year First Registered/Discipline

1994/Certified Professional Geologist #9158

1994/Pennsylvania Professinal Geologist #PG-000552-G

g. Other Experience and Qualifications relevant to the proposed project

Mr. Baldwin has more than sixteen years of experience in the fields of environmental consulting, hydrogeology and geology with particular experience in conducting and supervising environmental investigations and remedial actions at industrial, private, Federal and publicly-owned facilities and sites. For the last several years, Mr. Baldwin's work has focused primarily on sites and facilities located in the Long Island, New York City and Upstate New York areas. He has extensive knowledge and experience pertaining to Long Island's federally-designated sole-source drinking water aquifer system.

Mr. Baldwin works closely with the U.S. Environmental Protection Agency (EPA), New York State Department of Environmental Conservation (NYSDEC) Region 1, Region 3 and Central Office, New York State Department of Health (NYSDOH), Suffolk County Department of Health Services (SCDHS) and Nassau County Department of Health (NCDOH). His projects include supervising and performing Remedial Investigations/Feasibility Studies (RI/FSs), Interim Remedial Actions (IRMs), and implementation of selected remedies at NYSDEC Class 2 and 2a Inactive Hazardous Waste Disposal sites. Other work, conducted with the NYSDEC, includes evaluating and implementing large-scale ground-water and soil treatment systems to remediate MTBE.

He also has extensive experience in conducting other types of environmental work ranging from NYSDEC spill sites to remediating buried medical waste at a Long Island psychiatric center. Mr. Baldwin has extensive experience providing expert testimony/meeting presentation services in various venues. He has provided same in support of work being conducted in the Village of Greenport, Village of Lake Success, New Hyde Park, Dutchess County Supreme Court, South Farmingdale, Bayshore, Wassaic, Central Islip, Plainview and Amityville, New York. Before moving to the East Coast in 1993, Mr. Baldwin worked in the environmental industry in California. His work in the environmental industry consisted primarily of conducting large-scale environmental investigations at United States military and Department of Energy facilities.

Mr. Baldwin also has extensive experience in the New York State Environmental Quality Review Act (SEQRA) and New York City Environmental Quality Review (CEQR) Act. Specific projects conducted within the Watershed Area and/or CEQR-related projects managed by Mr. Baldwin include:

- Preparing an Environmental Assessment Statement (EAS) for infrastructure development for the Hillview Reservoir complex located in Yonkers, New York. The work is being conducted for the New York City Office of Environmental Protection (OEPA);
- Conducting Phase II soil and groundwater environmental site assessment (ESA) and potential stormwater impact analysis for a proposed waste-transfer facility located in Somers, New York. The purpose of the ESA was to ensure that the proposed project was in accordance with the Town of Somer's Groundwater Protection Plan and to ensure that site-related stormwater did not impact the nearby New York City Department of Environmental Protection (NYCDEP) reservoir;
- Prepared an EAS for a proposed expansion of a cathedral and religious-use day school in Staten Island, New York;
- Preparing an EAS for the proposed development of a recreational marina in Arverne, New York;
- Preparing an EAS for proposed development of religious-use facilities located in Brooklyn, New York; and
- Conducted/supervised several Phase II ESA including groundwater impact analysis in the Watershed area, specifically near Mahopac, Brewster and Carmel.

7. Brief Resume of Key Persons, Specialists, and individual consultants anticipated for this project.

a. Name & Title:
Ginny Watral, Vice President, Environmental Planning

b. Project Assignment:
Project Manager

c. Name of Firm with which associated:
Freudenthal & Elkowitz Consulting Group, Inc.

d. Years Experience: With This Firm 3 With Other Firms 4

e. Education: Degree(s)/Year/Specialization

Bachelor of Science/Master of Public Administration, College of Management, Long Island University, C. W. Post Campus, Brookville, New York, Accelerated degree program, Magna cum Laude, September, 1998.

f. Active Registration: Year First Registered/Discipline

Associate in Arts, Liberal Arts and Sciences, Suffolk County Community College, Selden, New York, With Highest Distinction, May, 1995.

g. Other Experience and Qualifications relevant to the proposed project

Mrs. Watral has comprehensive and diverse experience in overall planning and redevelopment of numerous parcels within various municipalities on Long Island. Specifically, this includes community development; waterfront revitalization; preparation of grant applications for commercial and residential projects; planning, zoning and visual impact assessments for public utility communication facilities; preparation of environmental assessment forms and municipal planning.

Prior to joining F&E, Mrs. Watral worked for the Long Island Housing Partnership and the City of Glen Cove. Among her responsibilities were preparing environmental assessments for community development projects for the Town of Babylon, in accordance with the State Environmental Review Quality Act (SEQRA) and the National Environmental Policy Act (NEPA) and monitoring regulatory compliance of federal, state and other public and private funding sources.

Mrs. Watral has provided expert testimony relative to the planning and environmental impacts of public utility communications facilities and development projects throughout Long Island. Representative projects in which Mrs. Watral has been instrumental include but are not limited to:

- Preparation and submission of planning and zoning analyses and neighborhood character studies, including expert testimony, in the Incorporated Villages of Great Neck Plaza, Cedarhurst, Valley Stream, Mineola, Garden City and New Hyde Park and the Towns of Hempstead, Oyster Bay, Huntington, Brookhaven and Islip;

- Environmental Assessment Forms for projects including residential land divisions, public utility communications facilities, hospitals and senior citizens developments, in the Towns of Hempstead, North Hempstead, Oyster Bay, Brookhaven and Huntington;

- Preparation, submission and presentation of documentation supporting land divisions and various applications;
- Preparation, submission and presentation at public hearings, in the Town of Babylon, of Comprehensive Annual Performance Evaluation Report for the Community Development Block Grant and HOME Investment Partnership Programs to the United States Department of Housing and Urban Development;

- Preparation and submission of the Five-Year Consolidated Plan, including presentations at public hearings, for the Town of Babylon; and

- Compilation of information for planning, zoning and visual impact assessments for over fifty public utility communication facilities.

7. Brief Resume of Key Persons, Specialists, and Individual consultants anticipated for this project.

a. Name & Title:
Orland J. Blanchard, Ph.D.

b. Project Assignment:
Ecologist

c. Name of Firm with which associated:
Freudenthal & Elkowitz Consulting Group, Inc.

d. Years Experience: With This Firm 10 With Other Firms 15+

e. Education: Degree(s)/Year/Specialization
Ph.D., Botany, 1976
A.B., Biology, 1966

f. Active Registration: Year First Registered/Discipline

g. Other Experience and Qualifications relevant to the proposed project

Dr. Blanchard is a broadly trained and respected field biologist with an extensive knowledge of the biota of the Northeast and with a range of expertise in wetlands evaluation, botanical and invertebrate inventory and the study of rare and endangered plants and animals.

Prior to establishing himself on Long Island in 1980, Dr. Blanchard lived and studied in Massachusetts, upstate New York and Indiana. Teaching and field research have taken him throughout the United States and to the West Indies, Mexico, Central America, and East Africa.

Dr. Blanchard has been active as a consultant and contractee since 1984, working directly or indirectly for such clients as the City of New York, the State Department of Transportation, the State Department of Environmental Conservation, the New York Natural Heritage Program and The Nature Conservancy. This work has included freshwater wetlands flagging and classification, botanical inventories, insect inventories, rare insect surveys, tiger salamander searches, and studies of the ecology of the federally endangered sandplain gerardia.

Dr. Blanchard has been associated with Freudenthal & Elkowitz Consulting Group, Inc. since 1989, and representative projects for which Dr. Blanchard has performed ecological investigations include:

- NYSDEC Wetland delineation and ecological assessment for 20+ acre proposed residential subdivision in Brookhaven;
- Ecological impact assessments as part of environmental impact statements prepared by Freudenthal & Elkowitz Consulting Group, Inc. throughout Long Island;
- NYSDEC and USACOE wetland delineation and ecological assessment for 23+ acre proposed residential development in Kings Point; and
- Ecological investigation for proposed 22+ acre commercial center in Stony Brook.

Dr. Blanchard is a recognized field biologist on Long Island. Dr. Blanchard is a past President (1988-89) of the Long Island Botanical Society; and Chairman of a committee that is preparing an atlas of the plants of Long Island; a past member of the Board of Trustees of The Nature Conservancy and past Chairman of the Board's Stewardship Committee; and member of the Natural History Advisory Board of the Friends of Long Island Heritage. He has recently been named to the Advisory Committee of the New York Flora Association. At the present time he is collaborating with a fellow botanist on a comparative study of the grasslands of Long Island.

In his academic capacities, Dr. Blanchard has taught graduate courses in Ecology, Entomology and Vascular Plants of Long Island, and as Director of the Graduate Environmental Studies Program at C.W. Post he has established numerous contacts in the environmental community on the Island.

7. Brief Resume of Key Persons, Specialists, and individual consultants anticipated for this project.

a. Name & Title:

Gail A. Pesner, Project Manager

b. Project Assignment:

Project Manager

c. Name of Firm with which associated:

Freudenthal & Elkowitz Consulting Group, Inc.

d. Years Experience: With This Firm 9 With Other Firms 7

e. Education: Degree(s)/Year/Specialization

Master of Regional Planning 1987/Land Use and Environmental Planning
B.S., Urban and Regional Studies/1985

f. Active Registration: Year First Registered/Discipline

American Institute for Certified Planners (AICP) - Since 1990

g. Other Experience and Qualifications relevant to the proposed project

Mrs. Pesner has a thorough knowledge of the New York State Environmental Quality Review Act (SEQRA). Ms. Pesner reviews and prepares SEQRA documentation including environmental impact statements for both private and municipal clients. She also conducts visual impact assessments as well as senior citizen housing needs analyses. She develops local ordinances; master plans; and performs land use and zoning analyses. She also prepares zoning, land use and site analysis maps, and undertakes subdivision and site plan reviews. Additionally, Ms. Pesner prepares New York State Department of Environmental Conservation and U.S. Army Corps of Engineers permit applications.

Mrs. Pesner has provided expert planning and environmental services for the Town of Hempstead, Town of North Castle, Town of Somers, Village of Lake Success, Village of Woodsburgh, Village of Sands Point and Village of Old Westbury. In addition, she has provided expert planning and environmental testimony in the Villages of Northport and Munsey Park.

She is involved in preparing environmental impact statements (EISs) and environmental assessments for projects including senior citizen developments, school facilities, recreational facilities, retail centers, mixed use projects, medical/professional offices, industrial facilities, religious institutions and residential developments.

She also prepares all phases of SEQR documentation and planning, zoning and visual impact assessments for major wireless communication carriers throughout Nassau, Suffolk and Westchester Counties. Furthermore, Mrs. Pesner has undertaken neighborhood character studies for private clients within the Towns of Huntington, Islip, Southold and Brookhaven. She has also prepared several market and need studies for senior citizen developments in both Nassau and Suffolk Counties.

Projects in which Mrs. Pesner has had major participation include:

- EIS and related SEQR/CEQR Documentation for Kensico Water Pollution Control Program for New York City Department of Environmental Protection;
- EIS for Rezoning and Development of 150±-acre Nassau County Property for Nassau County;
- EIS for Rezoning and Development of 170±- acre for Roosevelt Raceway for Town of Hempstead;
- EAFs and EIS, for Additions, Renovations and New Construction for over 10 school districts with Nassau and Suffolk Counties;
- Expanded Part III EAF for the Rezoning and Development of a 136±-acre Golf Course in the Town of Brookhaven;
- EIS for the Redevelopment of the 35±-acre Commack Arena Site in the Town of Smithtown;
- EIS for the Rezoning and Development of a Shopping Plaza in the Town of Riverhead;
- Expanded Part III EAF for the Development of a Yeshiva in the Village of Lawrence;
- EIS for the development of a Sikh Temple in the City of Glen Cove;
- EIS for the Development of a Condominium Development in the City of Glen Cove;
- EIS for the Suffolk County Water Authority Montauk Infrastructure Expansion in the Town of East Hampton;
- Expanded Part III EAF for the Development of Proposed Wells for the Water Authority of Great Neck North in the Town of North Hempstead;
- EIS for a 114±-acre Single-Family Home and Open Space Development in the Town of Southampton;

Gail A.Pesner, Project Manager (Continued)

- EIS for the redevelopment of a 114±-acre property with a mansion, private golf course and associated facilities in the Village of Old Westbury;

- Three-Town Senior Citizen Housing Unit Market Study for a Non-Profit Organization;

- EIS for the Rezoning and Development of a 136±-acre property for a Mixed Use Development in the Town of Islip; and

- EIS for the Rezoning and Development of a Senior Citizen Residential Development in the Town of Southampton.

7. Brief Resume of Key Persons, Specialists, and individual consultants anticipated for this project.

a. Name & Title:

Luc Derrendinger, Ph.D., Project Hydrogeologist

b. Project Assignment:

Project Hydrogeologist

c. Name of Firm with which associated:

Freudenthal & Elkowitz Consulting Group, Inc.

d. Years Experience: With This Firm 2 With Other Firms 0

e. Education: Degree(s)/Year/Specialization

Ph.D., Environmental Geochemistry, University of California at Berkeley, May 1997

B.S., Earth Sciences, Ecole Nationale de Geologie, France 1992

f. Active Registration: Year First Registered/Discipline

g. Other Experience and Qualifications relevant to the proposed project

As an project hydrogeologist at Freudenthal and Elkowitz Consulting Group, Inc., Dr. Derrendinger performs a variety of tasks. His primary responsibilities include the preparation of environmental site assessments, site screenings and property audits. He conducts site inspections of various properties including vacant land, developed residential sites, industrial and commercial facilities. Dr. Derrendinger also conducts record searches and database analyses of various cognizant agency files. He then uses this information to provide conclusions and recommendations regarding the environmental integrity of sites under study. Additional responsibilities include the compilation of the physical-chemical properties of pesticides for which their environmental fate is being assessed, using state-of-the-art screening software.

Representative projects in which Dr. Derrendinger has been involved include:

- Phase I Environmental Assessment of vacant land, commercial and residential properties in the counties of Suffolk and Nassau as well as the borough of Manhattan, New York.
- Phase II soil, sediment and groundwater sampling of commercial property.
- Laboratory research on the aggregation and deposition characteristics of natural colloidal minerals using light-scattering methods.
- Laboratory research on the formation of uranyl-phosphate minerals, their X-Ray characterization and eventual degradation by microorganisms.
- Environmental risk screening using the first-tier pesticide screening algorithm WIN-PST in concordance with pesticides and soils data compiled from representative regulatory agencies.

Dr. Derrendinger also performs various environmental and planning research tasks in support of the environmental impact statements and related studies prepared by the firm.

7. Brief Resume of Key Persons, Specialists, and individual consultants anticipated for this project.

a. Name & Title:

Kim A. Gennaro, M.S., Project Manager

b. Project Assignment:

Project Manager

c. Name of Firm with which associated:

Freudenthal & Elkowitz Consulting Group, Inc.

d. Years Experience: With This Firm 4 With Other Firms 4

e. Education: Degree(s)/Year/Specialization

M.S., Environmental Science and Management, Long Island University, June 2001
B.S., Environmental Planning and Design, Rutger Unversity, Cook College, June 1994

f. Active Registration: Year First Registered/Discipline

g. Other Experience and Qualifications relevant to the proposed project

Ms. Gennaro has a working knowledge of the New York State Environmental Quality Review Act (SEQRA). Ms. Gennaro reviews and prepares SEQRA documentation including environmental impact statements for private clients and public schools. She performs land use and zoning analyses; site analyses; and undertakes subdivision and site plan reviews.

Additionally, Ms. Gennaro is knowledgeable of the State and Federal wetlands regulations and prepares New York State Department of Environmental Conservation and U.S. Army Corps. of Engineers permit applications and jurisdiction inquiries.

She is involved in preparing environmental impact statements (EISs) and environmental assessments for projects including hospitals, airport improvements, senior citizen and retirement communities, school facilities, recreational facilities, retail centers, mixed-use projects, medical/professional offices, residential subdivisions, and Planned Development Districts. Furthermore, Ms. Gennaro has undertaken neighborhood character studies for private clients within the Towns of Huntington, Islip and Brookhaven.

Ms. Gennaro also prepares all phases of SEQRA documentation for public school and library construction projects. She is knowledgeable of both State Education Department (SED) and Dormitory Authority for the State of New York (DASNY) protocols.

She also prepares all phases of SEQR documentation and planning, zoning and visual impact assessments for major wireless communication carriers throughout Nassau and Suffolk Counties.

Projects in which Ms. Gennaro has had major participation include:

- EIS for the Good Samaritan Hospital Medical Center – Emergency Room Facility – in the Town of Islip, Suffolk County;
- EIS for Proposed 44-lot Cluster Subdivision in the Town of East Fishkill, Dutchess County;
- EIS for the Proposed Change of Zone for the Mixed-Use and Maritime Planned Development District in the Town of Southampton, Suffolk County;
- EIS and related SEQR Documentation for North Shore - Long Island Jewish Health System Long Island Master Plan, Incubator Laboratory Expansion and Glen Cove Emergency Room Expansion;
- EIS for Proposed Affordable Housing Development in the Town of Huntington, Suffolk County;
- EAFs, EISs and all SEQR-documentation for Additions, Renovations and New Construction for over 40 school districts and public libraries in Nassau, Suffolk, Westchester and Rockland Counties;
- EIS for the Proposed Change of Zone and Implementation of Airport Master Plan for Private Airport in the Town of Brookhaven, Suffolk County;
- Expanded Part III - EAF for the Proposed Change of Zone for a Mixed-Use Development in the Town of Riverhead, Suffolk County;
- Extensive Environmental Assessment of Proposed Development of a Retail/Office complex and 160-Unit Retirement Community in the Town of Riverhead, Suffolk County;
- Supplemental Environmental Analysis for a 123± acre golf course in the Town of Southampton, Suffolk County;
- EIS for the Change of Zone and Development of a 135-bed Convalescent Home and Complementary Use on a 10± acre site in the Town of Smithtown, Suffolk County;
- EIS for the Development of a Supermarket in the City of Glen Cove, Suffolk County;
- EIS with Detailed Soil Analysis for a 35-lot Residential Subdivision and Horse Farm on a 114± acre parcel in the Town of Southampton, Suffolk County;
- Expanded Part III-EAF for the Development of an Assisted Living Facility in the Town of Brookhaven, Suffolk County;
- EIS for a Residential Subdivision in the Village of Head of the Harbor, Suffolk County;
- Expanded Part III-EAF for the Change of Zone and Development of a 96-unit Planned Retirement Community in the Town of Brookhaven, Suffolk County;
- Expanded Part III-EAF for the Development of an 110-unit Multi-family Condominium Development in the Town of Brookhaven, Suffolk County;
- Market Analysis for Senior Citizen Apartments in the Town of Southampton, Suffolk County; and
- Environmental Assessment for the Expansion of an Existing Restaurant in the Republic Airport, Town of Babylon, Suffolk County;

7. Brief Resume of Key Persons, Specialists, and individual consultants anticipated for this project.

a. Name & Title:
William J. Schlageter, Project Manager

b. Project Assignment:
Project Manager

c. Name of Firm with which associated:
Freudenthal & Elkowitz Consulting Group, Inc.

d. Years Experience: With This Firm 5 With Other Firms 0

e. Education: Degree(s)/Year/Specialization
BS, Geology, 1998
A.A., Liberal Arts, 1995

f. Active Registration: Year First Registered/Discipline

g. Other Experience and Qualifications relevant to the proposed project

As a Project Manager at F&E, Mr. Schlageter performs a variety of tasks including the preparation Phase I and Phase II ESAs. Mr. Schlageter also coordinates and manages remediation actions with various regulatory agencies.

Mr. Schlageter has performed over 200 Phase I/Phase II ESAs and site remediation services for proposed cellular communications facilities; residential, commercial, scholastic and industrial properties; health care facilities; municipally-owned properties; and vacant land. Mr. Schlageter interacts with various clients including lending institutions, environmental attorneys, land owners and municipal representatives.

Site specific Phase II ESA proposals and scopes of work documents are designed and implemented by Mr. Schlageter to investigate potential environmental concerns and quantify recognized environmental conditions. Based upon Phase II ESA data, Mr. Schlageter coordinates with clients and/or clients' legal counsel regarding activities which may include: regulatory notification, hazardous material removal and/or remediation, or no further action. Detailed summary reports are prepared for the client demonstrating the completed scope of work with supporting documentation of on-site activities, manifests, analytical data and regulatory approval of a complete environmental evaluation for property.

Major projects in which Mr. Schlageter has had significant participation include:

- Draft Environmental Impact Statement for Sachem Central School District and Westhampton Beach School District properties;
- Operation and Maintenance of an air-sparge groundwater remediation system of a former power plant in Central Islip under the oversight of the NYSDEC;
- Soils and sediment remediation of over thirty properties under the oversight of the United States Environmental Protection Agency (USEPA) in conjunction with the USEPA Underground Injection Control program;
- Remediation coordination of the former Roosevelt Raceway property located in Nassau County;
- Preparation of underground storage tank (UST) compliance documentation for a fishing station in West Babylon;
- Phase I and Phase II ESAs of hospital facilities in Smithtown, Hempstead and Bay Shore;
- Environmental Assessments for proposed cellular communications facilities
- Phase I/Phase II Assessments of former municipally-operated power plant, laundry facility and maintenance facility in Central Islip;
- Phase I Assessments for more than 20 proposed acquisitions of open space and historical preservation by Suffolk County; and
- Phase I/Phase II Assessments and remediation management for institutional facilities seeking HUD financing;

Mr. Schlageter also performs various environmental and planning tasks in support of the preparation environmental impact statements and related studies prepared by the firm.

7. Brief Resume of Key Persons, Specialists, and individual consultants anticipated for this project.

a. Name & Title:
Stephen Kaplan, Project Manager

b. Project Assignment:
Project Manager

c. Name of Firm with which associated:
Freudenthal & Elkowitz Consulting Group, Inc.

d. Years Experience: With This Firm 3 With Other Firms 8

e. Education: Degree(s)/Year/Specialization
BA, Economics, State University of New York at Geneseo, 1992
Certified Asbestos Inspector, 2001

f. Active Registration: Year First Registered/Discipline

g. Other Experience and Qualifications relevant to the proposed project

In his capacity as a Project Manager, Mr. Kaplan performs and manages Phase I and Phase II ESAs and coordination and remediation projects with various regulatory agencies.

He has performed over 100 Phase I/Phase II Environmental Assessments for proposed cellular communications facilities; residential, commercial and industrial properties; health care facilities; and vacant land. Mr. Kaplan interacts with various clients including lending institutions, attorney and land acquisition personnel.

Site specific Phase II ESA proposals and scopes of work documents are designed and implemented by Mr. Kaplan to investigate potential environmental concerns and quantify recognized environmental conditions. Based upon Phase II ESA data, Mr. Kaplan coordinates with clients and/or clients' legal counsel regarding activities which may include: regulatory notification, hazardous material removal and/or remediation, or no further action. Detailed summary reports are prepared for the client demonstrating the completed scope of work with supporting documentation of on-site activities, manifests, analytical data and regulatory approval of a complete environmental evaluation for property.

Representative projects in which Mr. Kaplan has had significant participation include:

- Phase I Environmental Assessments for proposed cellular communications facilities;
- Phase I Environmental Assessments for proposed acquisitions of open space by Suffolk County;
- Phase I/Phase II Environmental Assessments for acquisition of commercial and waterfront properties by municipalities;
- Phase I/II Environmental Assessments for commercial property credit extensions and preforeclosures for Fleet Bank and HSBC Bank USA; and
- Phase I Environmental Assessments for institutional facilities seeking HUD financing.

7. Brief Resume of Key Persons, Specialists, and individual consultants anticipated for this project.

a. Name & Title:

Matthew Trieber

b. Project Assignment:

Environmental Technician

c. Name of Firm with which associated:

Freudenthal & Elkowitz Consulting Group, Inc.

d. Years Experience: With This Firm 2 With Other Firms 0

e. Education: Degree(s)/Year/Specialization

B.A., Earth and Space Sciences, State University of New York at Stony Brook, 2002

f. Active Registration: Year First Registered/Discipline

g. Other Experience and Qualifications relevant to the proposed project

As an environmental technician at Freudenthal and Elkowitz Consulting Group, Inc., Mr. Trieber performs a variety of tasks. His primary responsibilities include the preparation of environmental site assessments, site screenings and property audits. He conducts site inspections of various properties including vacant land, developed residential sites, industrial and commercial facilities. Mr. Trieber also conducts record searches and database analyses of various cognizant agency files. He then uses this information to provide conclusions and recommendations regarding the environmental integrity of sites under study.

Representative projects in which Mr. Trieber has been involved include:

- Multiple Phase I Environmental Assessments of vacant, commercial and residential properties in Suffolk and Nassau Counties.

- Phase II soil sampling of industrial property in Ronkonkoma.

Mr. Trieber also performs various environmental and planning research tasks in support of the environmental impact statements and related studies prepared by the firm.

8. Work by Firm or Joint Venture Members which Best Illustrates Current Qualifications Relevant to this project (List not more than 10 Projects)

A. Project Name & Location	B. Nature of Firm's Responsibility	C. Owner's Name & Address	D. Comp. Date (actual or Estimated)	E. Estimated Cost in Thousands Entire project	Estimated Cost in Thousands Work for which firm was/is responsible
(1) Nassau County Property Rezoning, Plainview, New York	Preparation of ecology, subsurface conditions, water consumption, air resources and noise sections of EIS for rezoning of government property	Land Design Associates, P.C. 91 Green Street Huntington, New York 11743	1995	200	80
(2) Glen Cove Creek Rezoning and Redevelopment Environmental Impact Statement, Glen Cove, New York	Rezoning and Redevelopment of 100 acres Environmental Impact Statement	Anthony Maurino, Esq. City of Glen Cove City Hall Glen Cove, New York 11542	1999	73	73
(3) Suffolk County Water Authority East Hampton, New York	Environmental Impact Statement for water supply integration and water main extension to ensure water quality	Suffolk County Water Authority 4060 Sunrise Highway Oakdale, New York 11769	1997	40	40
(4) Local Waterfront Revitalization Program, Subdivision Regulations and Planning Studies Manorhaven, New York	Preparation of Local Waterfront Revitalization Program, Community interaction, subdivision regulations and general services	Inc. Village of Manorhaven 33 Manorhaven Boulevard Manorhaven, New York 11050	1999	25	25
(5) Phase I and Phase II Environmental Site Assessments and Environmental Report, Remediation Management, Commack, New York	Preparation of Phase I and Phase II Environmental Site Assessments and Environmental Assessment for proposed cancer treatment facility	James Harden Memorial Sloan-Kettering Cancer Center 1275 York Avenue New York, New York 10021	1999	20	20
(6) Mexpoint, Inc. Kings Point, New York	EIS, USACOE Permit, NYSDEC Permit and CZM Compliance for coastal development	Mexpoint, Inc. 50 Charles Lindbergh Blvd. Uniondale, New York	2000	250	100
(7) Photocircuits Glen Cove, New York	EIS for Industrial Expansion	Photocircuits Corp. c/o Forchelli, Curto, Schwartz 330 Old Country Road Mineola, New York 11501	1998	500	40
(8) Parker Jewish Institute for Health Care & Rehabilitation, New Hyde Park, New York	Phase I and II Environmental Site Assessments for facility expansion, USEPA UIC Remediation Management	Louis DiGiovanni Parker Jewish Institute for Health Care and Rehabilitation 271-11 76th Avenue New Hyde Park, New York 11040	1999	75	100
(9) Timber Ridge at Stony Brook Stony Brook, New York	DEIS and FEIS for Residential Subdivision	Donald Eversoll Klein & Eversoll 631 Commack Road Commack, New York 11725	2000	50	50
(10) Fresh Kills Landfill DEIS Staten Island, New York	Preparation of Land Use & Zoning; Historic Resources; Visual Quality and Socio-economic sections of DEIS and SEQR/CEQR guidance	NYC Dept. of Sanitation c/o N. Veraart, Roy F. Weston of NY 130 West 30th Street New York, New York 10001	1996	500	150

9. All work by firms or joint-venture members currently being performed directly for Federal Agencies.

a. Project Name & Location	b. Nature of Firm's Responsibility	c.Agency (Responsible Office) Name & Address Project Manager & Telephone No.	d. Percent complete	e. Estimated Cost (in thousands)	
				Entire Project	Work for which Firm is/was responsible

10. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project.

Freudenthal & Elkowitz Consulting Group, Inc. (hereinafter F&E), a certified women's business enterprise, is a multi-faceted environmental and planning consulting firm with broad experience in environmental analysis and the New York State Environmental Quality Review (SEQR) process. In addition to preparing EISs, the firm also prepares Phase I and Phase II environmental site assessments, planning and zoning studies, land use analyses, water use and conservation plans, groundwater investigations, environmental permit applications and oversees remediation projects. It also serves to facilitate public participation for various projects. A description of the firm's recent projects that deal with the environmental review process and technical analyses are described below.

Kensico Water Pollution Control Program - As a primary subconsultant, F&E assisted in the preparation of the DEIS and related SEQR/CEQR documentation.

Fresh Kills Landfill - As a primary subconsultant, F&E assisted in the preparation of the DEIS for continued landfilling and related SEQR/CEQR documentation. The firm also performed specialized environmental studies.

Roosevelt Raceway Redevelopment - In accordance with SEQR, F&E prepared a full environmental assessment form for the redevelopment of a 172.8 acre former racetrack. The firm also prepared Phase I and Phase II environmental site assessments and oversaw remediation efforts. F&E prepared sections of the Generic EIS including, but not limited to: geology, water resources, land use, zoning and community services.

Plainview Property Rezoning - F&E participated with a team of consultants on the rezoning and redevelopment of over 100 acres of government property owned by Nassau County. This firm was specifically responsible for DEIS sections on water resources, air quality, noise, solid waste, ecology and subsurface conditions. A Phase I Environmental Site Assessment was also prepared.

Mexpoint, Inc. Subdivision - F&E prepared an EIS for the subdivision and development of a 23 acre parcel in the Incorporated Village of Kings Point. F&E was also responsible for wetland delineations of NYSDEC tidal and freshwater wetlands and USACOE freshwater wetlands.

Suffolk County Water Authority - The firm prepared an EIS for the extension of public water and the integration of water supply infrastructure to address water quality problems in Montauk.

Brookhaven Commons - In accordance with SEQR, F&E prepared an EIS for the development of a commercial center in Suffolk County. Major issues included land use and zoning, traffic, noise and air quality.

New York City Solid Waste Management Plan (SWMP) - F&E participated in the preparation of the EIS for the SWMP in accordance with SEQR and the New York City Environmental Quality Review Process. Specific responsibilities included the assessment of odor impacts for various facilities.

Commack Properties Redevelopment - The firm prepared the EIS for a major redevelopment of a former recreational site to a retail use.

Incorporated Village of Manorhaven - F&E serves as the Village Planner and has participated in many tasks including, but not limited to: preparation of the Local Waterfront Revitalization Program and accompanying GEIS; review of rezoning matters; environmental site assessments; subdivision regulations; and zoning and planning studies.

Expert Testimony and Litigation Support - Senior F&E personnel have provided expert testimony, affidavits and litigation support on various matters relating to SEQR and subsurface investigations and assessments.

Environmental Site Assessments - F&E has prepared numerous Phase I Environmental Site Assessments for vacant land and developed residential, commercial and industrial properties. These assessments include site inspections, review of cognizant agency records, review of relevant groundwater and soil studies, etc. In addition the firm has conducted Phase II studies which have included both soil and groundwater investigations. F&E has also provided oversight of remediation and coordination of same with appropriate regulatory agencies.

Suffolk County Council on Environmental Quality (CEQ) - F&E President, Theresa Elkowitz, serves as the Chairperson of CEQ. The CEQ is responsible for performing technical environmental reviews on County-initiated actions. This includes determining the classification of actions and making recommendations to the Suffolk County Legislature regarding a determination of significance. In the event a positive declaration is issued, the CEQ is responsible for scoping and review of the EIS and publication of notices, filings, etc.

11. The foregoing is a statement of facts.

Signature: _____ Typed Name and Title: _____ Date:

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PHASE II LIMITED ENVIRONMENTAL SITE ASSESSMENT

Lighthouse Development Project
1255 Hempstead Turnpike
Uniondale, New York

October 9, 2008

Prepared By:
Kleinfelder East, Inc.
One Corporate Drive, Suite 201
Bohemia, New York 11716

Prepared For:
Lighthouse Development Group, LLC.
1236 RexCorp Plaza
Uniondale, New York 1556

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PHASE II LIMITED ENVIRONMENTAL SITE ASSESSMENT

Lighthouse Development Project
1255 Hempstead Turnpike
Uniondale, New York

QUALITY ASSURANCE/QUALITY CONTROL

The following personnel have reviewed this report for accuracy, content, and quality of presentation:

Richard Swedborg
Senior Project Manager

10/9/08
Date

Edward N. Savarese
Project Hydrogeologist

10/9/08
Date

Dennis G. Shin
Senior Project Manager

10/9/08
Date

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1.0 INTRODUCTION

This report documents the methodology and findings of a Phase II Limited Environmental Site Assessment (ESA) performed for the Lighthouse Development Group, LLC, on the Nassau Veterans Memorial Coliseum (Coliseum), located as 1255 Hempstead Turnpike in Uniondale New York, the adjacent Long Island Marriott Hotel and Conference Center (Marriott Hotel), and vacant property owned by RexCorp Realty Corp (RexCorp), located at the intersection of Hempstead Turnpike and Glenn Curtiss Boulevard, in Uniondale, New York, collectively referred to as the "Site." The location of the Site is included on Figure 1.

1.1 Site Background

The Coliseum and Marriott Hotel properties were formerly the southeast portion of the Mitchell Field Air Base that was utilized as a military air base from the early 1900's to the 1960's and later purchased by Nassau County and redeveloped as a sports arena and Marriott Hotel. Combined, these properties are approximately 91 acres in total area. Operation and infrastructure related to military air base operations (based on aerial photo-documents) indicate the southeast portion of the air base included concrete aircraft runways and support roadways, a sewage treatment facility, and sewage filter beds. Inspection of the aerial photographs of the Site dating back to 1947, 1953, 1966, and 1976 indicate there were seven sewage treatment filter beds located in the southwest portion of the Site, adjacent to Hempstead Turnpike.

The vacant property located south of the Coliseum along Hempstead Turnpike and currently owned by RexCorp was formerly known as the Santini Sub-Base and encompasses approximately 8 acres. The limited available information indicates that the facility was used as housing and barracks for military personnel until the mid 1960's. At some point afterwards, the property was razed.

As part of due diligence activities, Kleinfelder East, Inc. (Kleinfelder) reviewed a Phase I ESA, dated March 2005, prepared by Freudenthal & Elkowitz Consulting Group, Inc. (F&E) for the Coliseum. The Phase I ESA recommended additional investigation activities to assess potential recognized environmental conditions (RECs) identified in the report which are discussed in Section 2.1 of this document.

In addition, a Phase I ESA, dated December 26, 2006, was prepared by IVI Due Diligence Services, Inc. (IVI) for the Marriott Hotel. The report did not identify RECs associated with the Marriot Hotel.

Information referenced in both Phase I ESA reports indicated that the Coliseum and Marriott Hotel are connected to the Nassau County Sewer system for disposal of sanitary waste. Connection points are located along the north and south boundaries of the Site and marked by numerous sewer manholes distributed in the parking area south and north of the Coliseum.

Storm water is managed by a series of interconnected Nassau County catch basins located in the Coliseum and Marriott Hotel parking areas and piped to a storm water recharge basin, reportedly located off Site, south of Hempstead Turnpike. Information contained within the F&E Phase I ESA report cited that storm water catch basins in the parking areas had not been impacted by petroleum chemicals related to a specific known release.

2.0 PROJECT INFORMATION

2.1 Purpose and Scope of Services

An initial Phase I ESA of the Coliseum, dated March 2005, was completed by F&E. The purpose of the Phase I ESA was to identify potential historical and current environmental impacts to the Coliseum that could be considered as legal and/or financial liabilities if that site were to be purchased and/or redeveloped. The Phase I ESA included site reconnaissance observations and review of records from the New York State Department of Environmental Conservation (NYSDEC), Nassau County Fire Marshall (NCFM), Nassau County Department of Public Works (NCDPW), and the Nassau County Department of Health (NCDOH). RECs that necessitated additional evaluation and assessment include the following:

- Performance of soil and groundwater sampling in the vicinity of the former Mitchel Field sewage treatment beds (southwest corner of the Coliseum property).
- Performance of an up gradient and down gradient groundwater sampling program. This will identify environmental impacts due to the historic Mitchel Field facility, potential impacts of polychlorinated biphenyls (PCBs) associated with pistons utilized by the hydraulically driven elevators, as well as to determine any impacts due to releases from the glycol piping situated beneath the arena floor.
- Performance of soil and groundwater sampling in the vicinity of the tank grave associated with the former 1,000-gallon diesel underground storage tank (UST).
- Performance of a tightness test to confirm the integrity of the in-service 1,000-gallon diesel UST.
- In the event that storm water is found to discharge to on-site structures, F&E recommended the performance of a geophysical survey to map out the leaching structure network associated with same. Additionally, bottom sediment samples from within the identified leaching structures should be collected and analyzed.

Consequently, F&E recommended conducting a Phase II ESA to address the RECs identified as a result of the Phase I ESA.

The purpose of this Phase II Limited ESA was to assess soil and groundwater quality beneath the Coliseum property, the adjacent Marriott Hotel, and the vacant RexCorp property and investigate the presence or absence of environmental impacts and potential RECs associated with the past and current use of the Site. The findings of this assessment will be used as a baseline to determine if additional

assessment and investigation is necessary for one or more of the properties. Furthermore, the findings of this assessment and evaluation will be used to assist the Lighthouse Development Group, LLC with determining future needs and planning for Site redevelopment.

The strategy behind developing environmental site assessment scope items was based on investigating the RECs identified in the F&E Phase I ESA, the identification of the former use of the vacant RexCorp property in the Phase I ESA prepared for the European American Bank (EAB) property, dated October 2005, prepared by Divirka and Bartilucci Consulting Engineers, and additional investigative work scopes requested by the Lighthouse Development Group, LLC. The additional investigative work scope focused on the following:

- Establishing a preliminary assessment of soil and groundwater on the vacant RexCorp property.
- Confirming groundwater elevation and flow direction beneath the Coliseum and Marriott Hotel property.
- Performing a geophysical survey of the following:
    - The former sewage filter beds to identify possible ancillary infrastructure from the former sewage treatment facility that may be present.
    - The area southwest of the Coliseum building to ascertain the possible presence of a former concrete aircraft runway and associated taxiways.

In order to accomplish this scope, Kleinfelder performed the tasks summarized below and described in Section 3.0.

- Notification of public agencies – Prior to commencement of invasive activities, Kleinfelder contacted "One-Call" to mark out public utilities on the Site. Public utilities notified included the following: Long Island Power Authority, National Grid, Verizon, NCDPW, Nassau County Traffic Signals, Town of Hempstead Water District, American Telephone and Telegraph, MCI, and Cablevision. In addition to local public agencies, Kleinfelder personnel met with representatives from Suez Energy (formerly known as Trigen Energy) to ascertain the location of water, high-temperature water, and steam piping that services the Coliseum and Marriott Hotel.

- Subsurface utilities on the Site were identified using a combination of public and private mark outs. Each soil boring location was cleared of utilities prior to initiating drilling activities.

- A geophysical conductivity survey was conducted using a Geonics EM-31 MK2 (EM-31) instrument at two locations on the Coliseum property. The first location was the former sewage filter beds in Parking Area 8, and the second area was in Parking Area 7, on the southwest side of the Coliseum property. The objective of the first survey was to identify if the former filter beds and possible remaining piping or infrastructure associated with the former sewage treatment facility still remain in place. The objective of the second survey was a preliminary assessment to identify the possible presence of the former northwest to southeast aircraft runway that may be present beneath the parking area.

- Collection and analysis of soil and groundwater samples from two up gradient locations on the northern portion of the Coliseum property to assess groundwater and soil quality.

- Collection and analysis of soil samples from 18 soil boring locations to ascertain potential impacts to subsurface soil quality. Soil boring location distribution included the following: two soil borings

on the vacant RexCorp property, two soil borings on the Marriott Hotel property, and 14 soil borings on the Coliseum property (two north of the Coliseum building, four along the south side of the Coliseum building, five within the sewage filter bed area, and three along the southern property line, north of Hempstead Turnpike.

- Collection and analysis of 15 groundwater samples included the following:
  - Ten soil boring locations on the Coliseum property (including three in the former sewage filter bed area).
  - Two Nassau County monitoring wells (NC8943 and NC8944) located on the Coliseum property.
  - Two soil boring locations on the Marriott Hotel property.
  - One soil boring location on the vacant RexCorp property.

- Installation and survey of five temporary wells to establish groundwater elevations and groundwater flow direction beneath the Coliseum property.

The locations of both the soil borings and temporary wells are illustrated on Figure 2. The findings of this Phase II Limited ESA are presented in the following sections that include: field activities conducted as part of the ESA, analytical results and findings and conclusions.

3.0 SUMMARY OF PHASE II LIMITED ESA ACTIVITIES

3.1 Utility Location

Prior to conducting invasive Phase II Limited ESA activities, utility mark outs were performed. The purposes of performing utility location were as follows:

- Identify subsurface utilities and buried infrastructure that could potentially pose a safety.
- Identify subsurface utilities and structures including electric, natural gas, water, cable, steam, and high temperature water lines, catch basins, and drainage piping in the immediate area of each soil boring location.
- Verify the locations of buried utilities and infrastructure shown on the Test Hole Plan dated September 11, 2007, prepared by Barrett, Bonacci and Van Wheele PC (BBV).

Kleinfelder contracted X-Ray Locating Services, Inc. of Smithtown, New York (X-Ray) to perform private utility mark outs on the Coliseum, Marriott Hotel, and vacant RexCorp properties. X-Ray located and marked buried utilities and piping in the area of each soil boring location. Utilities and piping were identified using a pipe and cable locator, a magnetometer, and an electrical power locator. In addition, a ground penetrating radar (GPR) system with a 250 megahertz (MHz) antenna was used at each soil boring location to verify that a minimum area of 15 feet by 15 feet was absent of utilities and anomalous buried features. In many instances, soil borings on the Coliseum and Marriott Hotel properties had to be relocated due to the presence of anomalous subsurface features that resembled construction or concrete-

type fill material, piping, conduits, or concrete structures such as former foundations or remnant sections of aircraft runway or taxiways.

The results of the utility mark outs identified the following:

- Numerous, small anomalies were identified using a metal detector and GPR system at numerous proposed soil boring locations on the Coliseum and Marriott Hotel property. These anomalies (depending on location) were thought to be associated with construction-type fill material (possibly concrete foundations or structures), as well as historic piping and conduits which are likely the remnants of former airfield operations.

- Remnants of the former Mitchell Airfield southwest to northeast aircraft taxiway were identified directly south of the Marriott Hotel. The former taxiway is buried at a depth of approximately 3 feet beneath the asphalt parking area and may extend to the Coliseum's Hempstead Turnpike entrance. In addition, a number of concrete-type structures were identified in the vicinity of soil boring SB-15, east of the remnant taxiway and south of the Marriott Hotel.

- Subsurface electrical conduits were identified at various locations across the three properties, as well as a water service pipe originating at the Coliseum's Hempstead Turnpike entrance.

- Former utility service piping and electrical conduits were identified on the vacant RexCorp property, originating from a utility vault on the south side of Hempstead Turnpike.

- Verification of the drainage piping interconnecting the storm water catch basins on the Coliseum and Marriott Hotel properties, as depicted on the BBV Test Hole Site Plan dated September 11, 2007.

3.2 EM-31 Conductivity Survey

A limited geophysical conductivity survey, using an EM-31, was performed in the area of seven former sewage filter beds for the purpose of identifying the potential extents of the filter bed area. Included with the EM-31 was the use of an integrated data logger and TrackMaker31 global positioning system (GPS) unit that measures and records the location and direction of the EM-31 based on a recorded GPS positioning system.

The information derived from this survey assisted in the placement of soil borings for the soil and groundwater assessment in the former filter bed area. This survey also identified possible buried ancillary infrastructure (piping) that may remain from the former Mitchel Field sewage treatment facility.

The EM-31 is a terrain conductivity meter that is used for mapping geological variations, groundwater contaminants, or any subsurface feature associated with changes in the ground conductivity using an electromagnetic inductive technique that makes the measurements without electrodes or ground contact. With this inductive method, surveys can be carried out under most geological conditions, including those of high surface resistivity such as sand, gravel, and asphalt. The EM-31 measures two components of an induced magnetic field. One field measures conductivity of soil and can delineate areas of high or low

anomalous conductivity that can be caused by landfills, drainage pits, former building foundations, and subsurface voids or plumes. The second component is the relative measurement between an induced magnetic field and the earth's magnetic field, therefore being very useful in detection of USTs. The EM-31 is not as sensitive to small metallic objects. However, the in-phase component of the EM-31 is especially useful for detecting shallow ore bodies and buried metal objects such as metal drums and objects of similar size. According to published information, the vertical nominal depth of exploration is 17.2 feet, and the horizontal nominal depth of exploration is 8 feet.

An EM-31 conductivity survey was also performed in Parking Areas 6 and 7 to identify if portions of the former northwest-southeast aircraft runway may be buried in the area. Reviews of aerial photographs from 1966 (and prior) identified aircraft runways situated diagonally across the Site in a northwest-southeast orientation. Aerial photographs from 1977 to 1994 show the same area of the property covered with asphalt. It is likely that some portions of the runway and taxiway were not removed during the construction of the Coliseum in the early 1970's. The locations of the EM-31 surveys are illustrated on Figure 4.

To perform the EM-31 conductivity survey in the area of the former filter beds (Parking Area 8), Kleinfelder personnel followed a pattern of parallel lines spaced approximately 8 feet apart. The survey area measured approximately 500 by 800 feet. The distance of the survey area (east to west) that encompassed Parking Area 8 was approximately 800 feet. The distance of survey area from south to north was approximately 500 feet. The starting point for each south to north line was the concrete curbing located on the south side of Parking Area 8. The existing lines for the parking spaces were used as a guide and reference, since the parking lot lines are approximately 8 feet apart. A total of 98 transect lines running south to north were measured in Parking Area 8. During the survey, the parking area was empty with the exception of three, 30-foot long metal storage containers and two large piles of road salt (calcium chloride) situated in the southwest corner of the parking area. The findings of the EM-31 survey in Parking Area 8 are presented on Figure 5.

The EM-31 survey in the area of Parking Areas 7 and 9 was performed in two parallel transect lines that were perpendicular to the orientation of the former northwest to southeast aircraft runway. The two transect lines were approximately 300 feet in length and approximately 25 feet apart. The transects were orientated such that they passed through Parking Area 7 into Parking Area 9 and through the intersection of the adjoining access roadways. Fencing located between the parking areas may have had a minor effect on the conductivity readings. The findings of the EM-31 conductivity survey in Parking Areas 7 and 9 are presented on Figure 6.

3.3 Soil Assessment

Under contract and supervision of Kleinfelder, Aquifer Drilling and Testing, Inc. of New Hyde Park, New York (ADT) performed vacuum clearing activities as a preventative measure to avoid shallow underground utility lines, piping, and subsurface infrastructure that may have been missed during the utility mark out process. Between the dates of July 25 and August 18, 2008, ADT pre-cleared soil boring locations SB-1 through SB-19 to a depth of approximately 8 feet below grade (fbg) using a Vactron™ mobile vacuum unit and a pneumatic air lance. Upon completion of the pre-clearing activities, excavated soils were returned to the borehole, and the surface was repaired with an asphalt patch.

As a result of the pre-clearing activities, only one soil boring location (SB-3) had to be relocated due to concrete fill material that was encountered at a depth of 6 inches beneath the asphalt paving. Soil boring SB-6 was located in the filter bed area, and was subsequently abandoned when concrete-type fill was encountered at 5 fbg in the relocated borehole. Due to an expedited schedule, soil boring SB-6 was removed from the drilling sequence.

Between the dates of July 29 and August 21, 2008, ADT drilled soil borings SB-1 through SB-19 at the locations shown on Figure 2.

ADT drilled soil borings SB-1, SB-2, SB-4, SB-5, SB-13, and SB-18 using a Geoprobe™ to a terminal depth of approximately 35 fbg. Soil boring SB-15 was initially drilled on August 30, 2008, using a Geoprobe™. However, the boring was abandoned due to refusal at 20 fbg. Field notes indicate that pulverized concrete was encountered in the macro-core. Soil boring SB-15 was relocated and later completed on August 20, 2008, using a hollow-stem auger (HSA) drill rig.

Soil sample collection methodology for the Geoprobe™ soil borings included continuous soil samples using a 5-foot stainless-steel Geoprobe™ macro-core sampling device equipped with a removable acetate (plastic) liner. The macro-core was cleaned before each application using an Alocnox™ wash, followed by a rinse with distilled water, and then air dried. A new plastic liner was installed for each soil sample collected. Sampling equipment and probes were decontaminated in an area covered by plastic near each sampling location.

With the exception of soil borings SB-2 and SB-5, ADT completed soil boring locations SB-1, SB-4, SB-13, and SB-18 with a temporary well to facilitate groundwater sample collection. Initially, the proposed methodology for collection of soil and groundwater samples utilized a Geoprobe™ 6610 direct-push unit equipped with a macro-core for soil sampling and a milled-rod for groundwater sample collection. However, due to difficult drilling conditions at a depth range of 15 to 20 fbg, the drilling method was changed to utilize HSA drill rigs.

Note: The "GP" sample designation on laboratory reports coincide with the use of "SB" within this document. Due to the transition in drilling and sample collection methodology from a Geoprobe™ to a HSA drill rig, (described above), and for the purpose of uniformity, the identification of soil and groundwater samples collected from soil borings originally designated as "GP" (Geoprobe™) were changed to "SB" (soil boring).

ADT drilled remaining soil borings SB-3, SB-7, SB-8, SB-9, SB-10, SB-11, SB-12, SB-14, SB-15, SB-16, SB-17, and SB-19 using a HSA drill rig equipped with 3.25-inch inside diameter hollow stem augers to terminal depths of approximately 35 fbg. ADT collected soil samples from these soil borings continuously using a 2-foot long, decontaminated, stainless-steel, 2-inch diameter, split-spoon sampling device to a depth of approximately 35 fbg. Each split-spoon was cleaned using an Alocnox™ wash, followed by a rinse with distilled water, and then air dried. With the exception of soil boring SB-3, ADT completed these soil boring locations with a 1-inch diameter temporary well to help facilitate groundwater sample collection.

Kleinfelder personnel supervised drilling operations, inspected the soil samples to characterize the geology and presence of soil staining or odors in soil samples collected, determined the depth of groundwater at each soil boring location, and documented their observations on boring logs and a bound field notebook. Soil boring logs are presented in Appendix A.

Upon recovery of each split-spoon and macro-core, the soil samples were screened for volatile organic compounds (VOCs) using a photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp calibrated to an isobutylene span gas to yield total VOCs in parts per million by volume (ppm_v) referenced to benzene. The PID screening values are for field screening, and are not necessarily indicative of actual concentrations in soil, as determined by laboratory analysis.

Kleinfelder personnel selected the soil sample exhibiting the highest PID response from each soil boring or from soil samples that exhibited staining or chemical odor. If the PID did not measure responses above background, then a soil sample was collected at or just above the soil-water interface. PID responses were recorded and are included in the applicable soil boring logs. Twenty soil samples were submitted from 18 soil boring locations. Two soil samples were collected from three soil boring locations (SB-19, SB-13, and SB-2) for confirmatory purposes. A soil sample from soil boring SB-7 (24-28 fbg), collected on August 18, 2008, was unfortunately misplaced during transport to Kleinfelder's office and assumed to be lost. Soil samples (and their collection depths) submitted for laboratory analyses are as follows:

- SB-1 (25-28 fbg)
- SB-2 (15-20 fbg)
- SB-2 (25-28 fbg)
- SB-3 (20-27 fbg)
- SB-4 (25-28 fbg)
- SB-5 (25-28 fbg)
- SB-8 (22-28 fbg)
- SB-9 (24-28 fbg)
- SB-10 (22-27 fbg)
- SB-11 (24-27 fbg)
- SB-12 (24-28 fbg)
- SB-13 (20-22.5 fbg)

- SB-13 (20-22.5 fbg) (duplicate)
- SB-14 (24-28 fbg)
- SB-15 (22-26 fbg)
- SB-16 (24-28 fbg)
- SB-17 (24-27 fbg)
- SB-18 (20-25 fbg
- SB-19 (17-22 fbg
- SB-19 (24-28 fbg)

Kleinfelder personnel placed the soil samples selected for laboratory analyses in laboratory-supplied jars, which were subsequently placed in storage/transportation coolers and preserved with ice. Chains of custody were prepared, and the coolers were transported to the Kleinfelder's Bohemia office for shipment to Accutest Laboratories of Dayton, New Jersey (Accutest) via Federal Express. Accutest is a New York State Department of Health (NYSDOH) approved laboratory (Environmental Laboratory Approval Program [ELAP] No. 10983). Accutest analyzed the soil samples for VOCs in accordance with United States Environmental Protection Agency (USEPA) Method 8260B, semi-volatile organic compounds (SVOCs) in accordance with USEPA Method 8270C, total petroleum hydrocarbons (TPH) diesel range organics (DRO) and gasoline range organics (GRO) in accordance with USEPA Method 8015, total metals (antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc) in accordance with USEPA Method 6010B/7471A, and PCBs in accordance with USEPA Method 8082.

3.4 Groundwater Assessment

Kleinfelder personnel collected groundwater samples from 13 of the 18 soil boring locations to evaluate the quality of the groundwater beneath the Site. Initially, 15 groundwater samples were planned for collection. However, due to poor yield from the temporary wells, groundwater samples from soil boring locations SB-7 and SB-19 could not be collected.

Groundwater samples from soil borings SB-1, SB-4, SB-13, and SB-18 were collected through a decontaminated stainless-steel milled Geoprobe™ sampling rod that was driven into the borehole 5 feet into the saturated zone.

Groundwater samples from soil borings SB-7, SB-8, SB-9, SB-10, SB-11, SB-12, SB-14, SB-15, SB-16, SB-17, and SB-19 were collected through a 1-inch diameter polyvinyl chloride (PVC) temporary well constructed with 10 feet of 0.010-slot well screen set approximately 5 feet into the saturated zone and native soils were allowed to backfill around the well screen and riser material. The temporary wells were installed using a HSA drill rig.

To collect groundwater samples from each of the 13 soil boring locations noted above, disposable ¼-inch polyethylene tubing equipped with a decontaminated stainless-steel check valve was inserted into either the Geoprobe™ milled sample rod or the 1-inch temporary well. A peristaltic pump was connected to the

¼-inch polyethylene tubing and used to recover groundwater samples. Each groundwater sample location was purged of approximately three well volumes prior to sampling to reduce turbidity levels in the samples.

Following sample collection, the temporary wells were removed with the exception of the temporary wells utilized for groundwater elevation data (wells at soil boring locations SB-1, SB-9, SB-12, SB-16, and SB-17).

Kleinfelder personnel collected groundwater samples from two Nassau County monitoring wells (NC8943 and NC8944). Nassau County monitoring well NC8943 is located in the public right-of-way, along the south side of Charles Lindbergh Boulevard and north of the Coliseum building. Nassau County monitoring well NC8944 is located in Parking Area 6, south of the Coliseum building. Representatives from the NCDPW were present at the time of sampling, and samples were split for their own analysis. Groundwater samples were collected from each monitoring well utilizing a decontaminated stainless-steel bailer that was provided by the NCDPW. Prior to sample collection, Kleinfelder purged approximately three well volumes from each monitoring well. The 15 groundwater samples submitted for laboratory analysis are as follows:

- SB-1
- SB-4
- SB-8
- SB-9
- SB-10
- SB-11
- SB-12
- SB-13
- SB-14
- SB-15
- SB-16
- SB-17
- SB-18
- NC8943
- NC8944

Kleinfelder personnel placed the groundwater samples selected for laboratory analyses in laboratory-supplied glassware, which was subsequently placed in storage/transportation coolers and preserved with ice. Chains of custody were prepared, and the coolers were transported to the Kleinfelder's Bohemia office for shipment to Accutest via Federal Express. Accutest analyzed the groundwater samples for the VOCs in accordance with USEPA Method 8260B, SVOCs in accordance with USEPA Method 8270C, TPH (DRO/GRO) in accordance with USEPA Method 8015, metals (antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc) in accordance with USEPA Method 6010B/7471A, and PCBs in accordance with USEPA Method 8082. Additionally, groundwater samples collected from soil borings SB-8, SB-9, and SB-14 were further analyzed for the presence of ethylene glycol in accordance with USEPA Method 8015.

Due to sediment that was present in the groundwater samples collected from the both the Geoprobe™ sample locations and the temporary wells following purging, a second set of groundwater samples were

collected for dissolved metals analysis. The additional samples were field-filtered using a disposable 0.45 micron (µm) membrane prior to transfer into the laboratory-supplied, unpreserved sample containers.

Following collection of groundwater samples, each soil boring location was abandoned by removing the temporary well or Geoprobe™ points and backfilling the borehole with drill cuttings. The asphalt surface was restored with asphalt surface patch. The five temporary wells installed at soil boring locations SB-1, SB-6, SB-12, SB-16, and SB-17 were left in place following sample collections and fitted with a 5-inch diameter well cover, and the surface around the well cover was sealed with asphalt patch.

Residual drill cuttings generated from the soil boring activities were placed in non-hazardous labeled drums, along with asphalt material removed during pre-clearing activities and plastic macro-core liners. The drums will be disposed off Site at a state-permitted disposal facility, pending laboratory analysis and facility approval.

3.5 Groundwater Elevation Measurements

Under contract with and the supervision of Kleinfelder, Control Point Associates, Inc. of Warren, New Jersey (Control Point) measured the top of casing (TOC) elevations of temporary wells SB-1, SB-9, SB-12, SB-16, SB-17, and Nassau County monitoring wells NC8943 and NC8944 at the Site on August 20, 2008. Control Point surveyed the five temporary wells and the two Nassau County monitoring wells utilizing a Nassau County geodetic benchmark. Measurements were collected from the north side of each location utilizing a laser-level and transit to an accuracy of $\pm$ 0.01 foot.

On August 21, 2008, Kleinfelder personnel measured depth to groundwater in each of the five temporary well locations and two Nassau County monitoring wells using a Solinist water level meter. Measurements were collected for the purpose of establishing groundwater elevation, flow direction, and hydraulic gradient beneath the Coliseum and Marriott Hotel properties.

3.6 Nassau County Fire Marshal Tank Review Record

Based on the recommendation to investigate the REC associated with the integrity of the 1,000-gallon diesel fuel UST, the Lighthouse Development Group, LLC contacted Nassau County to inquire about the status of integrity testing that is due to be completed by November 2008. The Lighthouse Development Group, LLC also requested a copy of the tank testing report if and when the testing is completed.

4.0 RESULTS/FINDINGS

4.1 Site Geology

The soil boring data that was collected from 18 soil boring locations distributed across the Site indicate that the upper 5 feet of surface soils underlying the property consist of a silty sand layer with gravel. Underlying this silty sand layer, subsurface material was found generally to consist of well graded sands and gravel and poorly graded sands with gravel. The upper 5 to 8 feet on the RexCorp property appear to be fill-type soils. Soil observed within the former sewage filter beds from soil boring locations SB-1, SB-2, SB-3, SB-4, SB-5, and SB-10 appears to consist of primarily poorly graded sand and some gravel, which could be fill material as well. Soils observed at soil boring locations SB-8, SB-9, and SB-14, south of the Coliseum building, appear to consist of fill-type soils for the first 5 to 8 feet. Copies of soil boring logs are provided in Appendix A.

4.2 Soil Assessment Results

A total of 20 soil samples were collected and analyzed as part of this ESA. The results and findings of the soil investigation are detailed below.

4.2.1 Soil Field Screening

PID field-screening measurements ranged from below the instrument detection limit (BDL) to 9.0 ppm_v in the 18 soil boring locations. One soil sample collected from soil boring SB-13 at a depth of 20 to 22.5 fbg had a PID response of 417 ppm_v, however, no odor or staining of soils was observed. To validate this PID response, the soil sample from 20 to 22.5 fbg collected from the macro-core was divided into two soil samples for analysis, one of the two being a duplicate. Laboratory analytical reports for the two sets of soil samples did not report VOC concentrations at or above the laboratory reporting limit. A laboratory analytical report for one of the two samples reported low-level concentrations of benzo(a)pyrene at a concentration of 0.0743 milligrams per kilogram (mg/kg), bis(2-Ethylhexyl)phthalate (0.083 mg/kg), flouranthene (0.162 mg/kg), chrysene (0.111 mg/kg), and estimated concentrations (denoted with a J) of benzo(a)anthracene (0.0586 J mg/kg), benzo(b)fluoranthene (0.05 J mg/kg), and benzo(g,h,i)perylene (0.0709 J mg/kg), of which only benzo(a)pyrene (0.0743 mg/kg), was above the NYSDEC Recommended Soil Cleanup Objective (RSCO) of 0.061 mg/kg for benzo(a)pyrene.

The laboratory analytical report for the second sample did not report SVOCs at or above the laboratory method detection limits. Based on this information, the PID value of 417 ppm_v is believed to be invalid, as it is an anomaly. Field-screening results are presented in the soil boring logs (Appendix A).

4.2.2 Soil Analytical Data

Soil sample analytical results did not report concentrations of PCBs above the laboratory method detection levels in the 20 soil samples.

Soil sample analytical results reported concentrations of VOCs in six of 20 soil samples. However, none of the VOC concentrations exceeded NYSDEC RSCOs.

Concentrations of SVOCs were below NYSDEC RSCOs in 16 of the 20 soil samples submitted for laboratory analysis. SVOC analytical results from soil borings SB-1 (25-30 fbg), SB-3 (20-27 fbg), SB-4 (25-28 fbg), and SB-13 (20-22.5 fbg) report SVOC concentrations slightly above the NYSDEC RSCOs. Benzo(a)pyrene was reported at a concentration of 0.184 mg/kg in soil sample SB-1 (25-30 fbg). Dibenzo(a,h)anthracene was reported at estimated concentrations of 0.0431 J mg/kg, 0.0169 J mg/kg, and 0.0172 J mg/kg in soil samples SB-1 (25-28 fbg), SB-3 (20-27 fbg), and SB-4 (25-28 fbg), respectively. Benzo(a)anthracene was reported at a concentration of 0.0743 mg/kg in soil sample SB-13 (20-22.5 fbg).

Concentrations of metals were reported to be below NYSDEC RSCOs in 11 of the 20 soil samples. Soil samples SB-1 (25-28 fbg), SB-2 (25-28 fbg), SB-3 (20-27 fbg), SB-4 (25-28 fbg), SB-5 (25-28 fbg), SB-8 (22-28 fbg), SB-13 (20-22.5 fbg), SB-16 (24-28 fbg), and SB-19 (17-22 fbg) reported chromium at concentrations of 13.5 mg/kg, 15.4 mg/kg, 16.9 mg/kg, 14 mg/kg, 24.4 mg/kg, 13.7 mg/kg, 12.3 mg/kg, 10.3 mg/kg, and 12.1 mg/kg, respectively. However, these concentrations are within the range of the Eastern USA Background values, and are likely the background concentrations for these properties.

Concentrations of TPH (DRO) were reported to be below laboratory detection limits in 12 of the 20 soil samples. Soil samples SB-1 (25-28 fbg), SB-2 (15-20 fbg), SB-4 (25-28 fbg), SB-5 (25-28 fbg), SB-13 (20-22.5 fbg), SB-13 (20-22.5 fbg) duplicate, SB-15 (22-26 fbg), and SB-16 (24-28 fbg) reported TPH (DRO) at concentrations of 323 mg/kg, 17.5 mg/kg, 110 mg/kg, 124 mg/kg, 19.7 mg/kg, 9.97 mg/kg, 21.1 mg/kg, and 88.7 mg/kg, respectively. Concentrations of TPH (GRO) were reported to be below laboratory detection limits in 19 of the 20 soil samples. Soil sample SB-1 (25-28 fbg) reported TPH (GRO) at a concentration of 18.1 mg/kg.

Specific to the soil samples collected down gradient of the former 1,000-gallon diesel UST and the existing 1,000-gallon diesel UST, laboratory analytical results of soil samples collected from soil borings SB-8, SB-9, and SB-14 did not report concentrations of VOCs, however, concentrations of SVOCs were reported, but these SVOC concentrations were below applicable NYSDEC RSCOs.

VOC, SVOC, metals, PCBs, and TPH (DRO/GRO) soil sample analytical results are summarized on Tables 1 through 5. Laboratory analytical reports are included in Appendix B.

4.3 Groundwater Assessment Results

A total of 15 groundwater samples were collected as part of this baseline assessment. A total of 11 groundwater samples were collected and analyzed from the Coliseum property, nine from soil boring locations SB-1, SB-4, SB-8, SB-9, SB-10, SB-11, SB-12, SB-14, SB-15, and two groundwater samples from Nassau County monitoring wells NC8943 and NC8944. Two groundwater samples (SB-13 and SB-15) were collected and analyzed from the Marriott Hotel property. One groundwater sample (SB-18) was collected and analyzed from the vacant RexCorp property. Two groundwater samples (SB-7 and SB-19) could not be collected due to insufficient recharge of the temporary wells.

Groundwater samples from temporary wells were collected approximately 5 feet into the saturated zone at each location. Groundwater depth beneath the Site ranged from 28 to 33 fbg. Based on published literature, the two Nassau County wells (NC8943 and NC8944) are 2 inches in diameter, 50 feet deep, with a 5-foot well screen, and were installed in 1973 and 1976 (respectively). Both wells are constructed with galvanized steel pipe. The type of well screen is unknown, but suspected to be galvanized steel as well.

No liquid-phase hydrocarbons (LPH) or odor was observed in the groundwater samples. Laboratory analytical results reported concentrations of VOCs, SVOCs, metals (dissolved), PCBs, and ethylene glycol (for groundwater samples SB-8, SB-9, and SB-14) to be below NYSDEC Water Quality Standards (WQS) as published in the Division of Water *Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values Memorandum*, dated June 1998 (Addendum June 2000), in 12 of the 15 the groundwater samples submitted for analysis. The groundwater samples collected from Nassau County monitoring wells NC8944 and NC8943 reported concentrations of six SVOCs slightly above the NYSDEC WQS. Monitoring well NC8944 reported estimated concentrations (denoted with a J) of benzo(a)anthracene, benzo(a)pyrene, benzo(f)fluoranthene, benzo(k)fluoranthene, and chrysene at 0.65 J micrograms per liter (µg/L), 1.1 J µg/L, 0.91 J µg/L, 0.92 J µg/L, and 1.1 J µg/L, respectively. Monitoring well NC8943 reported bis(2-Ethylhexyl) phthalate at a concentration of 8.2 µg/L.

Additionally, groundwater samples were collected for both total metals and dissolved metals. The total metals analysis indicated that six of the 15 groundwater samples were above the NYSDEC WQS. Three groundwater samples (SB-1, SB-13, and SB-18) reported chromium at concentrations of 103 µg/L, 164 µg/L, and 131 µg/L, respectively. One groundwater sample (SB-16) reported thallium at a concentration of 4.5 µg/L. Nassau County monitoring well NC8943 reported lead at a concentration of 112 µg/L. Nassau County monitoring well NC8944 reported concentrations of cadmium, lead, and zinc at 7.4 µg/L, 273 µg/L, and 15,900 µg/L, respectively. The analysis of the field-filtered groundwater samples reported that metal concentrations were below the NYSDEC WQS for 13 of the 15 groundwater samples analyzed. Laboratory data for groundwater sample NC8944 reported dissolved concentrations of zinc and cadmium of 6,980 µg/L and 8.2 cadmium µg/L, respectively. Laboratory data for groundwater sample SB-16

reported a concentration of thallium of 2.5 µg/L. The groundwater analytical results are summarized on Tables 6 through 12. The laboratory analytical reports are included in Appendix B.

Concentrations of TPH (DRO) were reported to be below laboratory detection limits in nine of the 15 groundwater samples. Groundwater samples SB-9, SB-10, SB-11, SB-15, NC8943, and NC8944 reported TPH (DRO) at concentrations of 0.185 µg/L, 0.365 µg/L, 0.121 µg/L, 0.192 µg/L, 0.294 µg/L, and 0.0200 µg/L, respectively. Concentrations of TPH (GRO) were reported to be below laboratory detection limits in all 15 soil samples.

Specific to the groundwater samples collected down gradient of the former 1,000-gallon diesel UST and the existing 1,000-gallon diesel UST, laboratory analytical results from soil borings SB-8, SB-9, and SB-14 reported a VOC concentration of dichlorodifluoromethane in groundwater sample SB-8 of 2.3 µg/L. With regard to SVOCs, groundwater samples SB-8 and SB-9 reported phenanthrene concentrations of 0.69J µg/L and 1.0 µg/L, respectively. All other VOCs and SVOCs were below laboratory method detection limits.

Specific to the groundwater samples collected along the down gradient boundary of the former filter bed area, laboratory analytical results from groundwater samples SB-1, SB-4, and SB-10 did not report concentrations of VOCs above WQS or the laboratory method detection limit. With regard to SVOCs, groundwater sample SB-1 reported estimated concentrations (denoted with a J) of acenaphthene, flouranthene, and flourene at 0.39 J µg/L, 0.4 J µg/L, and 0.41 J µg/L, respectively. Groundwater sample SB-10 reported phenanthrene at a concentration of 0.45 J µg/L. Groundwater sample SB-4 reported an estimated concentration of bis(2-Ethylhexyl) phthalate at 1.3 J µg/L. These estimated values are below the applicable NYSDEC WQS.

4.4 Groundwater Elevation

On August 21, 2008, depth to groundwater (DTW) measurements ranged from 28.27 fbg in soil boring SB-17 to 26.50 fbg in soil boring SB-1. Kleinfelder compared the DTW measurements to the TOC data to determine the relative groundwater elevation, groundwater flow direction, and hydraulic gradient beneath the Site. Based on the measured groundwater depths and survey data, groundwater was interpreted to flow to the south-southwest under an average hydraulic gradient of approximately 0.0012 feet per foot (ft/ft) between soil borings SB-17 and SB-1. Groundwater elevation contours are presented on Figure 3. A summary of groundwater elevation data, including depth to groundwater, well depths, water table elevations, and TOC elevations are presented on Table 13.

Kleinfelder compared the interpreted groundwater flow to regional groundwater flow provided by the United States Geological Survey (USGS). Regional flow is interpreted to flow south-southwest, comparable to the groundwater flow interpreted below the Site.

4.5 EM-31 Conductivity Survey

The results of the EM-31 survey in Parking Areas 7 and 8 provide important information concerning the subsurface features in these areas. The purpose of the conductivity survey in Parking Area 8 was to identify the locations of the former filter beds, buried ancillary infrastructure associated with the former Mitchel Field sewage treatment facility, and identify piping connections and point of discharge from the storm water catch basins in the area. It should be noted that the former filter bed area encompassed about half of Parking Area 8. The purpose of the survey in Parking Area 7 was an attempt to identify if a portion of the former northwest-southeast aircraft runway was potentially present. Figure 4 illustrates the locations of the two survey areas. Figures 5 and 6 present the graphic findings of the conductivity surveys in these locations.

In Parking Area 8, the conductivity survey identified the general locations of the former filter beds and a number of small anomalies and areas that may represent former sewage treatment piping, existing drainage, or electrical conduit. In addition, the survey identified storm water catch basins, interconnecting concrete drainage piping, and possible connections to the Nassau County storm water drainage system located beneath Hempstead Turnpike.

The green-shaded area represents what is considered to be background conductivity measurements, since the soil types in these areas are primarily medium sands with some silt. The higher conductivity measurements (shown as white and blue), in the area of soil boring SB-1, were possibly associated with the salt piles (and salt runoff), the three storage trailers, and possible construction-type fill encountered in soil boring SB-1. The higher conductivity measurements as identified by black-shaded areas may be associated with former piping, a former piping trench, or existing conduit or drainage pipe. The brown-shaded area, shown in the area of soil boring SB-3, is likely attributable to shallow construction-type fill material that was encountered during pre-clearing at two locations for soil boring SB-3 that were abandoned. Note: Existing features such as lights and metal catch basins are also shown as high conductance areas.

The results of the EM-31 conductivity survey performed in Parking Areas 7 and 9, and illustrated on Figure 7, did not identify extensive higher conductivity readings in the area of the former runway or taxiway as was anticipated. Some conductivity readings increased above background levels in the area of the service road intersections of Parking Area 7 and 9, however, the responses were likely due to buried water

service piping, electrical conduits, drainage piping, and concrete curbing that transects through the target area.

5.0 CONCLUSIONS

Phase II Limited ESA activities were conducted on the Coliseum property, the Marriott Hotel property, and the vacant RexCorp property. The purpose of the ESA was to characterize soil and groundwater quality beneath the properties and to ascertain if there have been adverse impacts related to the current or historic operations at the Site.

Conclusions based on the findings of the Phase II Limited ESA are as follows:

- The upper 5 to 8 feet of surface soils underlying the properties generally consist of a silty sand layer with gravel and some possible fill material in the former filter bed area. Underlying this silty sand layer, subsurface material was found generally to consist of well graded sands and gravel and poorly graded sands with gravel.

- PID measurements in 16 soil borings ranged from BDL to 19.2 ppm_v. One PID measurement of 417 ppm_v that was recorded for soil sample SB-13 (20 to 22.5 fbg) may be anomalous based on laboratory analytical results of two soil samples collected from the same interval (SB-13 [20-22.5 fbg]). VOCs were not reported above the laboratory method detection limits for both soil samples, and SVOCs reported low-level concentrations of benzo(a)pyrene (0.0743 mg/kg), bis(2-Ethylhezyl) phthalate (0.083 mg/kg), flouranthene (0.162 mg/kg), and chrysene (0.111 mg/kg), and estimated concentrations (denoted with a J) of benzo(a)anthracene (0.0586 J mg/kg), benzo(b)fluoranthene (0.05 J mg/kg), and benzo(g,h,i)perylene (0.0709 J mg/kg), of which only benzo(a)pyrene (0.0743 mg/kg) was above the applicable NYSDEC RSCO of 0.061 mg/kg.

- Concentrations of adsorbed-phase VOCs were detected in six of the 20 soil samples analyzed, but, detected VOC concentrations were below the applicable NYSDEC RSCOs. These results are presented on Table 14.

- Concentrations of adsorbed-phase SVOCs were below applicable NYSDEC RSCOs in 16 of the 20 soil samples submitted for laboratory analysis. SVOCs detected at or above the laboratory method detection limits and below RSCOs are summarized on Table 15.

- Concentrations of adsorbed-phase SVOCs were reported above NYSDEC RSCOs in soil samples SB-1 (25-30 fbg), SB-3 (20-27 fbg), SB-4 (25-28 fbg), and SB-13 (20-22.5 fbg). Benzo(a)pyrene was reported at a concentration of 0.184 mg/kg in soil sample SB-1 (25-30 fbg) and 0.0743 in soil sample SB-13, above the NYSDEC RSCO of 0.061 mg/kg. Dibenzo(a,h)anthracene was reported at estimated concentrations in soil sample SB-1 (25-28 fbg), SB-3 (20-27 fbg), and SB-4 (25-28 fbg) of 0.0431 J mg/kg, 0.0169 J mg/kg, and 0.0172 J mg/kg, respectively, above the NYSDEC RSCO of 0.0143 mg/kg. Since the detected concentration was less than the laboratory reporting limit, these concentrations are estimated. These three sample locations are distributed between the former filter bed (soil borings SB-1 and SB-4) and the southern property boundary of the Marriott Hotel property (soil broing SB-13).

- Concentrations of metals in the 20 soil samples submitted for laboratory analysis were either below NYSDEC RSCOs or within the ranges for the Eastern US Background values and are likely Site background concentrations.

- Concentrations of TPH (DRO) were reported to be below laboratory reporting limits in 12 of the 20 soil samples. Soil samples SB-1 (25-28 fbg), SB-2 (15-20 fbg), SB-4 (25-28 fbg), SB-5 (25-28 fbg), SB-13 (20-22.5 fbg), SB-13 (20-22.5 fbg) duplicate, SB-15 (22-26 fbg), and SB-16 (24-28 fbg) reported TPH (DRO) at concentrations of 323 mg/kg, 17.5 mg/kg, 110 mg/kg, 124 mg/kg, 19.7 mg/kg, 9.97 mg/kg, 21.1 mg/kg, and 88.7 mg/kg, respectively. Neither the NYSDEC nor the Nassau County Department of Health (NCDOH) provides guidance values for TPH concentrations in soil, however, the Suffolk County Department of Health Services (SCDHS) provides a recommended cleanup objective for TPH in soils of 500 mg/kg.

- Concentrations of TPH (GRO) were reported to be below laboratory detection limits in 19 of the 20 soil samples. Soil samples SB-1 (25-28 fbg) reported a low-level TPH (GRO) concentration of 18.1 mg/kg. Neither the NYSDEC nor the NCDOH provides guidance values for TPH concentrations in soil, however, the SCDHS provides a recommended cleanup objective for TPH in soils of 500 mg/kg.

- Concentrations of dissolved-phase VOCs were not detected in 14 of the 15 groundwater samples submitted for laboratory analysis. Only one sample (SB-8), reported dichlorodifluoromethane (CF2-12 also known as Freon) at a concentration of 2.3 µg/L and considered to be a laboratory contaminant. This result is summarized on Table 16.

- Concentrations of dissolved-phase SVOCs were not detected in groundwater samples SB-14, SB-16, SB-17, and SB-18.

- Concentrations of dissolved-phase SVOCs were below NYSDEC WQS in 13 of the 15 groundwater samples submitted for laboratory analysis. Moreover, of the 30 reported SVOC concentrations below the WQS, 26 concentrations were reported as "estimated" concentrations below the laboratory method detection limit. The SVOC compounds reported for 11 groundwater samples (SB-1, SB-4, SB-8, SB-9, SB-10, SB-11, SB-12, SB-13, SB-15, NC8943, and NC8944) with reported concentrations below the WQS are summarized on Table 17.

- The groundwater samples collected from Nassau County monitoring wells NC8944 and NC8943 indicated low-level concentrations of SVOCs, slightly above the NYSDEC WQS. Monitoring well NC8944 reported estimated concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and chrysene of 0.65 J µg/L, 1.1 J µg/L, 0.91 J µg/L, 0.92 J µg/L, and 1.1J µg/L, respectively. The WQS for these five compounds is 0.002 µg/L. Monitoring well NC8943 only reported a bis (2-Ethylhexyl) phthalate concentration of 8.2 µg/L.

- Concentrations of TPH (DRO) were reported to be below laboratory detection limits in nine of the 15 groundwater samples. Groundwater samples SB-9, SB-10, SB-11, SB-15, NC8943, and NC8944 reported TPH (DRO) concentrations of 0.185 µg/L, 0.365 µg/L, 0.121 µg/L, 0.192 µg/L, 0.294 µg/L, and 0.0200 µg/L, respectively.

- Concentrations of TPH (GRO) were reported to be below laboratory detection limits in all 15 soil samples.

- The presence of benzo(a)anthracene, benzo(a)pyrene, benzo(f)fluoranthene, benzo(k)fluoranthene, and chrysene compounds reported in the groundwater sample from NC8944 may be attributable to storm water runoff entering the well over time, since that well is not sealed at the surface.

- Bis (2--Ethylhexyl) phthalate was reported in 12 of the 20 of soils samples and seven of the 11 groundwater sample results, and acetone was reported in two of the 20 soils samples. Both compounds should be discounted because they are known laboratory contaminants. Bis (2--

Ethylhexyl) phthalate is a plasticizer and can have multiple sources such as PVC-type materials and other plastics.

- Concentrations of VOCs or SVOCs were not detected at or above the laboratory method detection limits in groundwater sample SB-18 collected from the RexCorp property.

- Concentrations of metals (total) were below NYSDEC WQS in nine of the 15 groundwater samples submitted for laboratory analysis Three groundwater samples (SB-1, SB-13, and SB-18) reported chromium concentrations of 103 µg/L, 164 µg/L, and 131 µg/L, respectively. One groundwater sample (SB-16) reported a thallium concentration of 4.5 µg/L. Nassau County monitoring well NC8943 reported lead at a concentration of 112 µg/L. Nassau County monitoring well NC8944 reported concentrations of cadmium, lead, and zinc at 7.4 µg/L, 273 µg/L, and 15,900 µg/L, respectively. The analysis of the field-filtered groundwater samples reported that dissolved metal concentrations were below NYSDEC WQS in 13 of the 15 groundwater samples analyzed. The two groundwater samples with dissolved metal concentrations above NYSDEC WQS were NC8944 and SB-16. Laboratory data for groundwater sample NC8944 reported dissolved concentrations of zinc of 6,980 µg/L and cadmium of 8.2 µg/L. Laboratory data for groundwater sample SB-16 reported a dissolved concentration of thallium of 2.5 µg/L. The reduction in concentration of metals in field-filtered samples indicates a relationship of higher metal concentrations in groundwater samples that contained sediment (and absorbed metals) collected during sampling and acidified for preservation purposes as compared to groundwater samples filtered to remove sediment. The total metal concentrations of zinc and lead reported in groundwater sample NC8943 and zinc, cadmium, and lead reported in groundwater sample NC8944 may be attributed to galvanized well screen that could have been used to construct the wells, since zinc, lead, and cadmium are metals used in galvanized plating.

- Specific to the soil and groundwater samples collected down gradient and within the former filter bed area, laboratory analytical results from soil borings SB-1, SB-2, SB-3, SB-4, SB-5, and SB-10 indicate that there is no apparent adverse impact from the former sewage treatment operations.

- Concentrations of absorbed- and dissolved-phase PCBs were not detected in the soil or groundwater samples submitted for laboratory analysis.

- Concentrations of dissolved-phase ethylene glycol were not detected in any of the three groundwater samples (SB-8, SB-9, and SB-14) collected down gradient of the Coliseum.

- On August 21, 2008, DTW in the five temporary monitoring wells ranged from 28.27 fbg to 26.5 fbg, with groundwater interpreted to flow south-southwest, under a hydraulic gradient of 0.0012 ft/ft.

6.0 TERMS AND CONDITIONS

This report is intended for the sole use of the Lighthouse Development Group, LLC. Any other parties that wish to use this report shall notify Kleinfelder to form a mutually acceptable agreement for use. Non-compliance with any of this requirement will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party.

The scope of work on this project was presented in a proposal dated June 24, 2008, and subsequently approved by the Lighthouse Development Group, LLC (Client). Please be aware that this scope of work

was limited to those items specifically identified in the proposal that included collecting soil and groundwater samples at the Coliseum, the Marriott Hotel, and vacant RexCorp properties. These locations were chosen in an attempt to evaluate the potential RECs identified as a result of the Phase I ESA. This scope has been formulated to provide information about current conditions at these locations. While the scope provides an indication of conditions in the area of the samples, the sampling cannot identify potential contaminants for every location on the subject properties. Environmental issues not specifically addressed in the proposal were beyond the scope of our work and were not included in the evaluation

7.0 LIMITATIONS

This work was performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. Our conclusions, opinions and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no other representation, guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

This report may be used only by the Lighthouse Development Group, LLC., and the registered design professional in responsible charge and only for the purposes stated for this specific engagement within a reasonable time from its issuance, but in no event later than two (2) years from the date of the report.

Kleinfelder offers various levels of investigative and engineering services to suit the varying needs of different clients. It should be recognized that definition and evaluation of geologic and environmental conditions are a difficult and inexact science. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions present due to the limitations of data from field studies. Although risk can never be eliminated, more-detailed and extensive studies yield more information, which may help understand and manage the level of risk.

8.0 REFERENCES

New York State Department of Environmental Conservation, Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values Memorandum dated June 1998 (Addendum June 2000)

New York State Department of Environmental Conservation, Recommended Soil Cleanup Objectives for Gasoline Contaminated and Fuel Oil Contaminated Soils, August 22, 2001.

Phase I Environmental Site Assessment-European American Bank (EAB) property dated October 2005, prepared by Divirka and Bartilucci Consulting Engineers

Phase I Environmental Site Assessment – Long Island Marriott Hotel and Conference Center dated December 26, 2006, prepared by IVI Due Diligence Services Inc. (IVI).

Phase I Environmental Site Assessment – Nassau Veterans Memorial Coliseum dated March 2005, prepared by Freudenthal & Elkowitz Consulting Group, Inc

United States Geological Survey, 7.5-Minute Series Topographic Map of Uniondale, New York Quadrangle, photorevised 1979.

TABLES

Table 1
SOIL ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

Sample ID		SB-1	SB-2		SB-3	SB-4	SB-5	SB-8	SB-9
Sample Depth (fbg)		25-28	15-20	25-28	20-27	25-28	25-28	22-28	24-28
Sample Date									
Parameter	NYSDEC RSCO	8/2/08	8/13/08	8/13/08	8/19/08	8/14/08	8/13/08	8/20/08	8/19/08
Benzene	**0.08**	<0.0012	<0.0011	<0.0013	<0.001	<0.001	<0.0012	<0.001	<0.001
Toluene	**1.5**	<0.0012	<0.0011	<0.0013	<0.001	<0.001	<0.0012	<0.001	<0.001
Ethylbenzene	**5.5**	0.00062 J	<0.0011	<0.0013	<0.001	<0.001	<0.0012	<0.001	<0.001
Xylene (total)	**1.2**	0.0051	<0.0022	<0.0025	<0.002	0.00089 J	<0.0023	<0.002	<0.0021
Total BTEX	**~**	0.00062	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MTBE	**0.12**	<0.0012	<0.0011	<0.0013	<0.001	<0.001	<0.0012	<0.001	<0.001
Acetone	**0.2**	<0.012	<0.011	0.0282	<0.01	<0.01	0.0226	<0.01	<0.01
Bromodichloromethane	**10**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
Bromoform	**10**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
Bromomethane	**10**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
2-Butanone (MEK)	**0.3**	<0.012	<0.011	<0.013	<0.01	<0.01	<0.012	<0.01	<0.01
n-Butylbenzene	**10**	0.0067	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
sec-Butylbenzene	**10**	0.0024 J	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
tert-Butylbenzene	**10**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
Carbon tetrachloride	**0.6**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
Chlorobenzene	**1.7**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
Chloroethane	**1.9**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
Chloroform	**0.3**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
Chloromethane	**10**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
Dibromochloromethane	**10**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
1,2-Dichlorobenzene	**7.9**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
1,3-Dichlorobenzene	**1.6**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
1,4-Dichlorobenzene	**8.5**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
Dichlorodifluoromethane	**10**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
1,1-Dichloroethane	**0.2**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
1,2-Dichloroethane	**0.1**	<0.0012	<0.0011	<0.0013	<0.001	<0.001	<0.0012	<0.001	<0.001
1,1-Dichloroethene	**0.4**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
cis-1,2-Dichloroethene	**10**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
trans-1,2-Dichloroethene	**0.3**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
1,2-Dichloropropane	**10**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
1,3-Dichloropropane	**0.3**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
cis-1,3-Dichloropropene	**10**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
trans-1,3-Dichloropropene	**10**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
Isopropylbenzene	**2.3**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
p-Isopropyltoluene	**10**	0.0042 J	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
4-Methyl-2-pentanone(MIBK)	**1**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
Methylene chloride	**0.1**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
Naphthalene	**13**	0.0132	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
n-Propylbenzene	**3.7**	0.0018 J	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
Styrene	**10**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
1,1,2,2-Tetrachloroethane	**0.6**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
Tetrachloroethene	**1.4**	0.00069 J	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
1,2,4-Trichlorobenzene	**3.4**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
1,1,1-Trichloroethane	**0.8**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
1,1,2-Trichloroethane	**10**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051

Table 1
SOIL ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

Sample ID		SB-1	SB-2		SB-3	SB-4	SB-5	SB-8	SB-9
Sample Depth (fbg)		25-28	15-20	25-28	20-27	25-28	25-28	22-28	24-28
Sample Date									
Parameter	NYSDEC RSCO	8/2/08	8/13/08	8/13/08	8/19/08	8/14/08	8/13/08	8/20/08	8/19/08
Trichloroethene	**0.7**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
Trichlorofluoromethane	**10**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
1,2,3-Trichloropropane	**0.4**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
1,2,4-Trimethylbenzene	**10**	0.0368	<0.0056	<0.0064	<0.005	0.0011 J	<0.0058	<0.005	<0.0051
1,3,5-Trimethylbenzene	**3.3**	0.0127	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
Vinyl chloride	**0.2**	<0.006	<0.0056	<0.0064	<0.005	<0.0052	<0.0058	<0.005	<0.0051
m,p-Xylene	**~**	0.0029	<0.0022	<0.0025	<0.002	0.00089 J	<0.0023	<0.002	<0.0021
o-Xylene	**~**	0.0022	<0.0011	<0.0013	<0.001	<0.001	<0.0012	<0.001	<0.001

Table 1
SOIL ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

Sample ID		SB-10	SB-11	SB-12	SB-13		SB-14	SB-15	SB-16
Sample Depth (fbg)		22-27	24-27	24-28	20-22.5	20-22.5	24-28	22-26	24-28
Sample Date									
Parameter	NYSDEC RSCO	8/19/08	8/21/08	8/17/08	7/30/08	7/30/08	8/19/08	8/20/08	8/18/08
Benzene	**0.08**	<0.001	<0.00087	<0.0011	<0.001	<0.00095	<0.00097	<0.0012	<0.001
Toluene	**1.5**	<0.001	<0.00087	<0.0011	<0.001	<0.00095	<0.00097	<0.0012	0.00074 J
Ethylbenzene	**5.5**	<0.001	<0.00087	<0.0011	<0.001	<0.00095	<0.00097	<0.0012	<0.001
Xylene (total)	**1.2**	<0.0021	<0.0017	<0.0021	<0.0021	<0.0019	<0.0019	<0.0025	0.0013 J
Total BTEX	**~**	BRL	BRL	BRL	BRL	BRL	BRL	BRL	0.00074
MTBE	**0.12**	<0.001	<0.00087	<0.0011	<0.001	<0.00095	<0.00097	<0.0012	<0.001
Acetone	**0.2**	<0.01	<0.0087	<0.011	<0.01	<0.0095	<0.0097	<0.012	0.0189
Bromodichloromethane	**10**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
Bromoform	**10**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
Bromomethane	**10**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
2-Butanone (MEK)	**0.3**	<0.01	<0.0087	<0.011	<0.01	<0.0095	<0.0097	<0.012	<0.01
n-Butylbenzene	**10**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
sec-Butylbenzene	**10**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
tert-Butylbenzene	**10**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
Carbon tetrachloride	**0.6**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
Chlorobenzene	**1.7**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
Chloroethane	**1.9**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
Chloroform	**0.3**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
Chloromethane	**10**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
Dibromochloromethane	**10**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
1,2-Dichlorobenzene	**7.9**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
1,3-Dichlorobenzene	**1.6**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
1,4-Dichlorobenzene	**8.5**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
Dichlorodifluoromethane	**10**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
1,1-Dichloroethane	**0.2**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
1,2-Dichloroethane	**0.1**	<0.001	<0.00087	<0.0011	<0.001	<0.00095	<0.00097	<0.0012	<0.001
1,1-Dichloroethene	**0.4**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
cis-1,2-Dichloroethene	**10**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
trans-1,2-Dichloroethene	**0.3**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
1,2-Dichloropropane	**10**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
1,3-Dichloropropane	**0.3**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
cis-1,3-Dichloropropene	**10**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
trans-1,3-Dichloropropene	**10**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
Isopropylbenzene	**2.3**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
p-Isopropyltoluene	**10**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
4-Methyl-2-pentanone(MIBK)	**1**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
Methylene chloride	**0.1**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
Naphthalene	**13**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
n-Propylbenzene	**3.7**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
Styrene	**10**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
1,1,2,2-Tetrachloroethane	**0.6**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
Tetrachloroethene	**1.4**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
1,2,4-Trichlorobenzene	**3.4**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
1,1,1-Trichloroethane	**0.8**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
1,1,2-Trichloroethane	**10**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005

Table 1
SOIL ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

Sample ID		SB-10	SB-11	SB-12	SB-13		SB-14	SB-15	SB-16
Sample Depth (fbg)		22-27	24-27	24-28	20-22.5	20-22.5	24-28	22-26	24-28
Sample Date									
Parameter	NYSDEC RSCO	8/19/08	8/21/08	8/17/08	7/30/08	7/30/08	8/19/08	8/20/08	8/18/08
Trichloroethene	**0.7**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
Trichlorofluoromethane	**10**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
1,2,3-Trichloropropane	**0.4**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
1,2,4-Trimethylbenzene	**10**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
1,3,5-Trimethylbenzene	**3.3**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
Vinyl chloride	**0.2**	<0.0051	<0.0044	<0.0053	<0.0052	<0.0047	<0.0048	<0.0062	<0.005
m,p-Xylene	**~**	<0.0021	<0.0017	<0.0021	<0.0021	<0.0019	<0.0019	<0.0025	0.0013 J
o-Xylene	**~**	<0.001	<0.00087	<0.0011	<0.001	<0.00095	<0.00097	<0.0012	<0.001

Table 1
SOIL ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

Sample ID		SB-17	SB-18	SB-19	
Sample Depth (fbg)		24-27	20-25	17-22	24-28
Sample Date		8/17/08	8/15/08	8/19/08	8/18/08
Parameter	NYSDEC RSCO				
Benzene	**0.08**	<0.001	<0.001	<0.00098	<0.00099
Toluene	**1.5**	<0.001	0.0016	<0.00098	<0.00099
Ethylbenzene	**5.5**	<0.001	<0.001	<0.00098	<0.00099
Xylene (total)	**1.2**	<0.0021	0.0021	<0.002	<0.002
Total BTEX	**~**	BRL	0.0016	BRL	BRL
MTBE	**0.12**	<0.001	<0.001	<0.00098	<0.00099
Acetone	**0.2**	<0.01	<0.01	<0.0098	<0.0099
Bromodichloromethane	**10**	<0.0052	<0.0052	<0.0049	<0.005
Bromoform	**10**	<0.0052	<0.0052	<0.0049	<0.005
Bromomethane	**10**	<0.0052	<0.0052	<0.0049	<0.005
2-Butanone (MEK)	**0.3**	<0.01	<0.01	<0.0098	<0.0099
n-Butylbenzene	**10**	<0.0052	<0.0052	<0.0049	<0.005
sec-Butylbenzene	**10**	<0.0052	<0.0052	<0.0049	<0.005
tert-Butylbenzene	**10**	<0.0052	<0.0052	<0.0049	<0.005
Carbon tetrachloride	**0.6**	<0.0052	<0.0052	<0.0049	<0.005
Chlorobenzene	**1.7**	<0.0052	<0.0052	<0.0049	<0.005
Chloroethane	**1.9**	<0.0052	<0.0052	<0.0049	<0.005
Chloroform	**0.3**	<0.0052	<0.0052	<0.0049	<0.005
Chloromethane	**10**	<0.0052	<0.0052	<0.0049	<0.005
Dibromochloromethane	**10**	<0.0052	<0.0052	<0.0049	<0.005
1,2-Dichlorobenzene	**7.9**	<0.0052	<0.0052	<0.0049	<0.005
1,3-Dichlorobenzene	**1.6**	<0.0052	<0.0052	<0.0049	<0.005
1,4-Dichlorobenzene	**8.5**	<0.0052	<0.0052	<0.0049	<0.005
Dichlorodifluoromethane	**10**	<0.0052	<0.0052	<0.0049	<0.005
1,1-Dichloroethane	**0.2**	<0.0052	<0.0052	<0.0049	<0.005
1,2-Dichloroethane	**0.1**	<0.001	<0.001	<0.00098	<0.00099
1,1-Dichloroethene	**0.4**	<0.0052	<0.0052	<0.0049	<0.005
cis-1,2-Dichloroethene	**10**	<0.0052	<0.0052	<0.0049	<0.005
trans-1,2-Dichloroethene	**0.3**	<0.0052	<0.0052	<0.0049	<0.005
1,2-Dichloropropane	**10**	<0.0052	<0.0052	<0.0049	<0.005
1,3-Dichloropropane	**0.3**	<0.0052	<0.0052	<0.0049	<0.005
cis-1,3-Dichloropropene	**10**	<0.0052	<0.0052	<0.0049	<0.005
trans-1,3-Dichloropropene	**10**	<0.0052	<0.0052	<0.0049	<0.005
Isopropylbenzene	**2.3**	<0.0052	<0.0052	<0.0049	<0.005
p-Isopropyltoluene	**10**	<0.0052	<0.0052	<0.0049	<0.005
4-Methyl-2-pentanone(MIBK)	**1**	<0.0052	<0.0052	<0.0049	<0.005
Methylene chloride	**0.1**	<0.0052	<0.0052	<0.0049	<0.005
Naphthalene	**13**	<0.0052	<0.0052	<0.0049	<0.005
n-Propylbenzene	**3.7**	<0.0052	<0.0052	<0.0049	<0.005
Styrene	**10**	<0.0052	<0.0052	<0.0049	<0.005
1,1,2,2-Tetrachloroethane	**0.6**	<0.0052	<0.0052	<0.0049	<0.005
Tetrachloroethene	**1.4**	<0.0052	<0.0052	<0.0049	<0.005
1,2,4-Trichlorobenzene	**3.4**	<0.0052	<0.0052	<0.0049	<0.005
1,1,1-Trichloroethane	**0.8**	<0.0052	<0.0052	<0.0049	<0.005
1,1,2-Trichloroethane	**10**	<0.0052	<0.0052	<0.0049	<0.005

Table 1
SOIL ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

Sample ID		SB-17	SB-18	SB-19	
Sample Depth (fbg)		24-27	20-25	17-22	24-28
Sample Date		8/17/08	8/15/08	8/19/08	8/18/08
Parameter	NYSDEC RSCO				
Trichloroethene	**0.7**	<0.0052	<0.0052	<0.0049	<0.005
Trichlorofluoromethane	**10**	<0.0052	<0.0052	<0.0049	<0.005
1,2,3-Trichloropropane	**0.4**	<0.0052	<0.0052	<0.0049	<0.005
1,2,4-Trimethylbenzene	**10**	<0.0052	<0.0052	<0.0049	<0.005
1,3,5-Trimethylbenzene	**3.3**	<0.0052	<0.0052	<0.0049	<0.005
Vinyl chloride	**0.2**	<0.0052	<0.0052	<0.0049	<0.005
m,p-Xylene	**~**	<0.0021	0.0016 J	<0.002	<0.002
o-Xylene	**~**	<0.001	0.00047 J	<0.00098	<0.00099

Notes:

~ - no standard or guidance value exists

<1.0 - not detected at or above the laboratory reporting limit shown

BTEX - benzene, toluene, ethylbenzene, and total xylenes

BRL - below laboratory reporting limit

Concentrations are presented in milligrams per kilogram (mg/kg).

fbg - feet below grade

J - an estimated value

MTBE - methyl tertiary-butyl ether

Total Xylenes - summation of o-xylene and m & p-xylenes

Shading - reported concentration detected above the applicable standard(s) or guidance value(s)

NYSDEC RSCO - New York State Department of Environmental Conservation, Recommended Soil Cleanup Objectives for Gasoline Contaminated and Fuel Oil Contaminated Soils, August 22, 2001; and NYSDEC Memorandum: Soil Cleanup Consolidation--Further Clarifications, July 10, 2001

Table 2
SOIL ANALYTICAL DATA - SEMI-VOLATILE ORGANIC COMPOUNDS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

Sample ID		SB-1	SB-2		SB-3	SB-4	SB-5	SB-8	SB-9
Sample Depth (fbg)		25-28	15-20	25-28	20-27	25-28	25-28	22-28	24-28
Sample Date									
Parameter	NYSDEC RSCO	8/2/08	8/13/08	8/13/08	8/19/08	8/14/08	8/13/08	8/20/08	8/19/08
2-Chlorophenol	**0.8**	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
4-Chloro-3-methyl phenol	**0.24**	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
2,4-Dichlorophenol	**0.4**	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
2,4-Dimethylphenol	**50**	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
2,4-Dinitrophenol	**0.2**	<0.71	<0.69	<0.69	<0.68	<0.69	<0.7	<0.68	<0.68
4,6-Dinitro-o-cresol	**50**	<0.71	<0.69	<0.69	<0.68	<0.69	<0.7	<0.68	<0.68
2-Methylphenol	**0.1**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
3&4-Methylphenol	**50**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
2-Nitrophenol	**0.33**	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
4-Nitrophenol	**0.1**	<0.71	<0.69	<0.69	<0.68	<0.69	<0.7	<0.68	<0.68
Pentachlorophenol	**1**	<0.35	<0.34	<0.35	<0.34	<0.34	<0.35	<0.34	<0.34
Phenol	**0.03**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
2,4,5-Trichlorophenol	**0.1**	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
2,4,6-Trichlorophenol	**50**	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Acenaphthene	**50**	0.0319 J	<0.034	<0.035	<0.034	<0.034	0.0197 J	<0.034	<0.034
Acenaphthylene	**50**	0.0483 J	<0.034	<0.035	<0.034	<0.034	<0.035	<0.034	<0.034
Anthracene	**50**	0.0382 J	<0.034	<0.035	<0.034	0.0174 J	<0.035	<0.034	<0.034
Benzo(a)anthracene	**0.224**	0.21	<0.034	<0.035	<0.034	0.0635	<0.035	0.0271 J	<0.034
Benzo(a)pyrene	**0.061**	0.184	<0.034	0.0246 J	0.0167 J	0.0586	0.0355	0.02 J	<0.034
Benzo(b)fluoranthene	**0.22**	0.169	<0.034	0.025 J	<0.034	0.0532	0.0354	<0.034	<0.034
Benzo(g,h,i)perylene	**50**	0.125	<0.034	0.0174 J	0.0276 J	0.0478	0.0246 J	<0.034	<0.034
Benzo(k)fluoranthene	**0.22**	0.149	<0.034	<0.035	<0.034	0.0343	<0.035	0.0233 J	<0.034
4-Bromophenyl phenyl ether	**50**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
Butyl benzyl phthalate	**50**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
2-Chloronaphthalene	**50**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
4-Chloroaniline	**0.22**	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Carbazole	**50**	0.0264 J	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
Chrysene	**0.4**	0.242	<0.034	<0.035	<0.034	0.0592	0.0334 J	0.031 J	<0.034
bis(2-Chloroethoxy)methane	**50**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
bis(2-Chloroethyl)ether	**50**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
bis(2-Chloroisopropyl)ether	**50**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
4-Chlorophenyl phenyl ether	**50**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
1,2-Dichlorobenzene	**7.9**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
1,3-Dichlorobenzene	**1.6**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
1,4-Dichlorobenzene	**8.5**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
2,4-Dinitrotoluene	**50**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
2,6-Dinitrotoluene	**1**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
3,3'-Dichlorobenzidine	**50**	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Dibenzo(a,h)anthracene	**0.0143**	0.0431 J	<0.034	<0.035	0.0169 J	0.0172 J	<0.035	<0.034	<0.034
Dibenzofuran	**6.2**	0.0417 J	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
Di-n-butyl phthalate	**8.1**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
Di-n-octyl phthalate	**50**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
Diethyl phthalate	**7.1**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
Dimethyl phthalate	**2**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
bis(2-Ethylhexyl)phthalate	**50**	0.155	0.0499 J	0.152	0.052 J	0.527	0.274	0.0646 J	0.0547 J
Fluoranthene	**50**	0.419	<0.034	<0.035	0.0164 J	0.1	<0.035	0.0577	<0.034
Fluorene	**50**	0.036 J	<0.034	<0.035	<0.034	<0.034	0.0199 J	<0.034	<0.034
Hexachlorobenzene	**0.41**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
Hexachlorobutadiene	**50**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068

Table 2
SOIL ANALYTICAL DATA - SEMI-VOLATILE ORGANIC COMPOUNDS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

Sample ID		SB-1	SB-2		SB-3	SB-4	SB-5	SB-8	SB-9
Sample Depth (fbg)		25-28	15-20	25-28	20-27	25-28	25-28	22-28	24-28
Sample Date		8/2/08	8/13/08	8/13/08	8/19/08	8/14/08	8/13/08	8/20/08	8/19/08
Parameter	NYSDEC RSCO								
Hexachlorocyclopentadiene	**50**	<0.71	<0.69	<0.69	<0.68	<0.69	<0.7	<0.68	<0.68
Hexachloroethane	**50**	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Indeno(1,2,3-cd)pyrene	**3.2**	0.115	<0.034	<0.035	0.0228 J	0.0432	<0.035	0.0138 J	<0.034
Isophorone	**4.4**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
2-Methylnaphthalene	**36.4**	<0.071	<0.069	0.0421 J	<0.068	0.0207 J	0.0625 J	<0.068	<0.068
2-Nitroaniline	**0.43**	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
3-Nitroaniline	**0.5**	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
4-Nitroaniline	**50**	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Naphthalene	**13**	<0.071	<0.034	0.0155 J	<0.034	<0.034	0.0259 J	<0.034	<0.034
Nitrobenzene	**0.2**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
N-Nitroso-di-n-propylamine	**50**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068
N-Nitrosodiphenylamine	**50**	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Phenanthrene	**50**	0.356	<0.034	<0.035	<0.034	0.0461	0.0523	0.0442	<0.034
Pyrene	**50**	0.415	<0.034	0.0361	<0.034	0.1	0.0828	0.0507	<0.034
1,2,4-Trichlorobenzene	**3.4**	<0.071	<0.069	<0.069	<0.068	<0.069	<0.07	<0.068	<0.068

Table 2
SOIL ANALYTICAL DATA - SEMI-VOLATILE ORGANIC COMPOUNDS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

Sample ID		SB-10	SB-11	SB-12	SB-13		SB-14	SB-15
Sample Depth (fbg)		22-27	24-27	24-28	20-22.5	20-22.5	24-28	22-26
Sample Date		8/19/08	8/21/08	8/17/08	7/30/08	7/30/08	8/19/08	8/20/08
Parameter	NYSDEC RSCO							
2-Chlorophenol	**0.8**	<0.17	<0.18	<0.18	<0.18	<0.17	<0.17	<0.17
4-Chloro-3-methyl phenol	**0.24**	<0.17	<0.18	<0.18	<0.18	<0.17	<0.17	<0.17
2,4-Dichlorophenol	**0.4**	<0.17	<0.18	<0.18	<0.18	<0.17	<0.17	<0.17
2,4-Dimethylphenol	**50**	<0.17	<0.18	<0.18	<0.18	<0.17	<0.17	<0.17
2,4-Dinitrophenol	**0.2**	<0.68	<0.71	<0.7	<0.71	<0.7	<0.67	<0.7
4,6-Dinitro-o-cresol	**50**	<0.68	<0.71	<0.7	<0.71	<0.7	<0.67	<0.7
2-Methylphenol	**0.1**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
3&4-Methylphenol	**50**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
2-Nitrophenol	**0.33**	<0.17	<0.18	<0.18	<0.18	<0.17	<0.17	<0.17
4-Nitrophenol	**0.1**	<0.68	<0.71	<0.7	<0.71	<0.7	<0.67	<0.7
Pentachlorophenol	**1**	<0.34	<0.36	<0.35	<0.35	<0.35	<0.34	<0.35
Phenol	**0.03**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
2,4,5-Trichlorophenol	**0.1**	<0.17	<0.18	<0.18	<0.18	<0.17	<0.17	<0.17
2,4,6-Trichlorophenol	**50**	<0.17	<0.18	<0.18	<0.18	<0.17	<0.17	<0.17
Acenaphthene	**50**	<0.034	<0.036	<0.035	<0.071	<0.07	<0.034	<0.035
Acenaphthylene	**50**	<0.034	<0.036	<0.035	<0.071	<0.07	<0.034	<0.035
Anthracene	**50**	<0.034	<0.036	<0.035	<0.071	<0.07	<0.034	<0.035
Benzo(a)anthracene	**0.224**	<0.034	<0.036	<0.035	0.0586 J	<0.07	<0.034	<0.035
Benzo(a)pyrene	**0.061**	<0.034	<0.036	<0.035	0.0743	<0.07	<0.034	<0.035
Benzo(b)fluoranthene	**0.22**	<0.034	<0.036	<0.035	0.05 J	<0.07	<0.034	<0.035
Benzo(g,h,i)perylene	**50**	<0.034	<0.036	<0.035	0.0709 J	<0.07	<0.034	<0.035
Benzo(k)fluoranthene	**0.22**	<0.034	<0.036	<0.035	0.11	<0.07	<0.034	<0.035
4-Bromophenyl phenyl ether	**50**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
Butyl benzyl phthalate	**50**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
2-Chloronaphthalene	**50**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
4-Chloroaniline	**0.22**	<0.17	<0.18	<0.18	<0.18	<0.17	<0.17	<0.17
Carbazole	**50**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
Chrysene	**0.4**	<0.034	<0.036	0.0167 J	0.111	<0.07	<0.034	<0.035
bis(2-Chloroethoxy)methane	**50**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
bis(2-Chloroethyl)ether	**50**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
bis(2-Chloroisopropyl)ether	**50**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
4-Chlorophenyl phenyl ether	**50**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
1,2-Dichlorobenzene	**7.9**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
1,3-Dichlorobenzene	**1.6**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
1,4-Dichlorobenzene	**8.5**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
2,4-Dinitrotoluene	**50**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
2,6-Dinitrotoluene	**1**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
3,3'-Dichlorobenzidine	**50**	<0.17	<0.18	<0.18	<0.18	<0.17	<0.17	<0.17
Dibenzo(a,h)anthracene	**0.0143**	<0.034	<0.036	<0.035	<0.071	<0.07	<0.034	<0.035
Dibenzofuran	**6.2**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
Di-n-butyl phthalate	**8.1**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
Di-n-octyl phthalate	**50**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
Diethyl phthalate	**7.1**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
Dimethyl phthalate	**2**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
bis(2-Ethylhexyl)phthalate	**50**	<0.068	0.0606 J	<0.07	0.083	<0.07	<0.067	0.0444 J
Fluoranthene	**50**	<0.034	<0.036	0.0248 J	0.162	<0.07	<0.034	<0.035
Fluorene	**50**	<0.034	<0.036	<0.035	<0.071	<0.07	<0.034	<0.035
Hexachlorobenzene	**0.41**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
Hexachlorobutadiene	**50**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07

Table 2
SOIL ANALYTICAL DATA - SEMI-VOLATILE ORGANIC COMPOUNDS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

Sample ID		SB-10	SB-11	SB-12	SB-13		SB-14	SB-15
Sample Depth (fbg)		22-27	24-27	24-28	20-22.5	20-22.5	24-28	22-26
Sample Date		8/19/08	8/21/08	8/17/08	7/30/08	7/30/08	8/19/08	8/20/08
Parameter	NYSDEC RSCO							
Hexachlorocyclopentadiene	**50**	<0.68	<0.71	<0.7	<0.71	<0.7	<0.67	<0.7
Hexachloroethane	**50**	<0.17	<0.18	<0.18	<0.18	<0.17	<0.17	<0.17
Indeno(1,2,3-cd)pyrene	**3.2**	<0.034	<0.036	<0.035	0.048 J	<0.07	<0.034	<0.035
Isophorone	**4.4**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
2-Methylnaphthalene	**36.4**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
2-Nitroaniline	**0.43**	<0.17	<0.18	<0.18	<0.18	<0.17	<0.17	<0.17
3-Nitroaniline	**0.5**	<0.17	<0.18	<0.18	<0.18	<0.17	<0.17	<0.17
4-Nitroaniline	**50**	<0.17	<0.18	<0.18	<0.18	<0.17	<0.17	<0.17
Naphthalene	**13**	<0.034	<0.036	<0.035	<0.071	<0.07	<0.034	<0.035
Nitrobenzene	**0.2**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
N-Nitroso-di-n-propylamine	**50**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07
N-Nitrosodiphenylamine	**50**	<0.17	<0.18	<0.18	<0.18	<0.17	<0.17	<0.17
Phenanthrene	**50**	<0.034	<0.036	<0.035	0.0672 J	<0.07	<0.034	<0.035
Pyrene	**50**	<0.034	<0.036	0.021 J	0.181	<0.07	<0.034	<0.035
1,2,4-Trichlorobenzene	**3.4**	<0.068	<0.071	<0.07	<0.071	<0.07	<0.067	<0.07

Table 2
SOIL ANALYTICAL DATA - SEMI-VOLATILE ORGANIC COMPOUNDS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

Sample ID		SB-16	SB-17	SB-18	SB-19	
Sample Depth (fbg)		24-28	24-27	20-25	17-22	24-28
Sample Date		8/18/08	8/17/08	8/15/08	8/19/08	8/18/08
Parameter	NYSDEC RSCO					
2-Chlorophenol	**0.8**	<1.7	<0.17	<0.18	<0.17	<0.17
4-Chloro-3-methyl phenol	**0.24**	<1.7	<0.17	<0.18	<0.17	<0.17
2,4-Dichlorophenol	**0.4**	<1.7	<0.17	<0.18	<0.17	<0.17
2,4-Dimethylphenol	**50**	<1.7	<0.17	<0.18	<0.17	<0.17
2,4-Dinitrophenol	**0.2**	<6.8	<0.69	<0.7	<0.69	<0.68
4,6-Dinitro-o-cresol	**50**	<6.8	<0.69	<0.7	<0.69	<0.68
2-Methylphenol	**0.1**	<0.68	<0.069	<0.07	<0.069	<0.068
3&4-Methylphenol	**50**	<0.68	<0.069	<0.07	<0.069	<0.068
2-Nitrophenol	**0.33**	<1.7	<0.17	<0.18	<0.17	<0.17
4-Nitrophenol	**0.1**	<6.8	<0.69	<0.7	<0.69	<0.68
Pentachlorophenol	**1**	<3.4	<0.34	<0.35	<0.35	<0.34
Phenol	**0.03**	<0.68	<0.069	<0.07	<0.069	<0.068
2,4,5-Trichlorophenol	**0.1**	<1.7	<0.17	<0.18	<0.17	<0.17
2,4,6-Trichlorophenol	**50**	<1.7	<0.17	<0.18	<0.17	<0.17
Acenaphthene	**50**	<0.34	<0.034	<0.035	<0.035	<0.034
Acenaphthylene	**50**	<0.34	<0.034	<0.035	<0.035	<0.034
Anthracene	**50**	<0.34	<0.034	<0.035	<0.035	<0.034
Benzo(a)anthracene	**0.224**	<0.34	<0.034	0.043	<0.035	<0.034
Benzo(a)pyrene	**0.061**	<0.34	<0.034	0.0478	<0.035	<0.034
Benzo(b)fluoranthene	**0.22**	<0.34	<0.034	0.0517	<0.035	<0.034
Benzo(g,h,i)perylene	**50**	<0.34	<0.034	0.0408	<0.035	<0.034
Benzo(k)fluoranthene	**0.22**	<0.34	<0.034	0.038	<0.035	<0.034
4-Bromophenyl phenyl ether	**50**	<0.68	<0.069	<0.07	<0.069	<0.068
Butyl benzyl phthalate	**50**	<0.68	<0.069	<0.07	<0.069	<0.068
2-Chloronaphthalene	**50**	<0.68	<0.069	<0.07	<0.069	<0.068
4-Chloroaniline	**0.22**	<1.7	<0.17	<0.18	<0.17	<0.17
Carbazole	**50**	<0.68	<0.069	<0.07	<0.069	<0.068
Chrysene	**0.4**	<0.34	0.0189 J	0.0507	<0.035	<0.034
bis(2-Chloroethoxy)methane	**50**	<0.68	<0.069	<0.07	<0.069	<0.068
bis(2-Chloroethyl)ether	**50**	<0.68	<0.069	<0.07	<0.069	<0.068
bis(2-Chloroisopropyl)ether	**50**	<0.68	<0.069	<0.07	<0.069	<0.068
4-Chlorophenyl phenyl ether	**50**	<0.68	<0.069	<0.07	<0.069	<0.068
1,2-Dichlorobenzene	**7.9**	<0.68	<0.069	<0.07	<0.069	<0.068
1,3-Dichlorobenzene	**1.6**	<0.68	<0.069	<0.07	<0.069	<0.068
1,4-Dichlorobenzene	**8.5**	<0.68	<0.069	<0.07	<0.069	<0.068
2,4-Dinitrotoluene	**50**	<0.68	<0.069	<0.07	<0.069	<0.068
2,6-Dinitrotoluene	**1**	<0.68	<0.069	<0.07	<0.069	<0.068
3,3'-Dichlorobenzidine	**50**	<1.7	<0.17	<0.18	<0.17	<0.17
Dibenzo(a,h)anthracene	**0.0143**	<0.34	<0.034	<0.035	<0.035	<0.034
Dibenzofuran	**6.2**	<0.68	<0.069	<0.07	<0.069	<0.068
Di-n-butyl phthalate	**8.1**	<0.68	<0.069	<0.07	<0.069	<0.068
Di-n-octyl phthalate	**50**	<0.68	<0.069	<0.07	<0.069	<0.068
Diethyl phthalate	**7.1**	<0.68	<0.069	<0.07	<0.069	<0.068
Dimethyl phthalate	**2**	<0.68	<0.069	<0.07	<0.069	<0.068
bis(2-Ethylhexyl)phthalate	**50**	<0.68	0.0457 J	<0.07	0.0366 J	<0.068
Fluoranthene	**50**	<0.34	<0.034	0.087	<0.035	<0.034
Fluorene	**50**	<0.34	<0.034	<0.035	<0.035	<0.034
Hexachlorobenzene	**0.41**	<0.68	<0.069	<0.07	<0.069	<0.068
Hexachlorobutadiene	**50**	<0.68	<0.069	<0.07	<0.069	<0.068

Table 2
SOIL ANALYTICAL DATA - SEMI-VOLATILE ORGANIC COMPOUNDS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

Sample ID		SB-16	SB-17	SB-18	SB-19	
Sample Depth (fbg)		24-28	24-27	20-25	17-22	24-28
Sample Date		8/18/08	8/17/08	8/15/08	8/19/08	8/18/08
Parameter	NYSDEC RSCO					
Hexachlorocyclopentadiene	**50**	<6.8	<0.69	<0.7	<0.69	<0.68
Hexachloroethane	**50**	<1.7	<0.17	<0.18	<0.17	<0.17
Indeno(1,2,3-cd)pyrene	**3.2**	<0.34	<0.034	0.0345 J	<0.035	<0.034
Isophorone	**4.4**	<0.68	<0.069	<0.07	<0.069	<0.068
2-Methylnaphthalene	**36.4**	<0.68	<0.069	<0.07	<0.069	<0.068
2-Nitroaniline	**0.43**	<1.7	<0.17	<0.18	<0.17	<0.17
3-Nitroaniline	**0.5**	<1.7	<0.17	<0.18	<0.17	<0.17
4-Nitroaniline	**50**	<1.7	<0.17	<0.18	<0.17	<0.17
Naphthalene	**13**	<0.34	<0.034	<0.035	<0.035	<0.034
Nitrobenzene	**0.2**	<0.68	<0.069	<0.07	<0.069	<0.068
N-Nitroso-di-n-propylamine	**50**	<0.68	<0.069	<0.07	<0.069	<0.068
N-Nitrosodiphenylamine	**50**	<1.7	<0.17	<0.18	<0.17	<0.17
Phenanthrene	**50**	<0.34	<0.034	0.0325 J	<0.035	<0.034
Pyrene	**50**	<0.34	<0.034	0.0722	<0.035	<0.034
1,2,4-Trichlorobenzene	**3.4**	<0.68	<0.069	<0.07	<0.069	<0.068

Notes:
<1.0 - not detected at or above the laboratory reporting limit shown
Concentrations are presented in milligrams per kilogram (mg/kg).
fbg - feet below grade
J - estimated value
NYSDEC RSCO - New York State Department of Environmental Conservation, Recommended Soil Cleanup Objectives for and Fuel Oil Contaminated Soils, August 22, 2001
Shading - reported concentration detected above the applicable standard(s) or guidance value(s)

Table 3
SOIL ANALYTICAL DATA - METALS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

Sample ID			SB-1	SB-2		SB-3	SB-4	SB-5	SB-8	SB-9	SB-10	SB-11	SB-12
Sample Depth (fbg)			25-28	15-20	25-28	20-27	25-28	25-28	22-28	24-28	22-27	24-27	24-28
Sample Date			8/2/08	8/13/08	8/13/08	8/19/08	8/14/08	8/13/08	8/20/08	8/19/08	8/19/08	8/21/08	8/17/08
Parameter	NYSDEC RSCO	Eastern USA Background											
Antimony	SB	NA	<2	<2	<2	<2	<2.1	<2	<2	<2.1	<2	<2.1	<2.1
Arsenic	7.5 or SB	3-12	<2	<2	<2	5.7	3.3	<2	2.6	3.5	<2	<2.1	<2.1
Beryllium	0.16 or SB	0-1.75	<0.51	<0.51	<0.5	<0.5	<0.52	<0.51	<0.5	<0.53	<0.51	<0.51	<0.53
Cadmium	1 or SB	0.1-1	<0.51	<0.51	<0.5	<0.5	<0.52	<0.51	<0.5	<0.53	<0.51	<0.51	<0.53
Chromium	10 or SB	1.5-40	13.5	4.8	15.4	16.9	14	24.4	13.7	9.2	6.5	5.9	5.2
Copper	25 or SB	1-50	9.2	4.1	6.4	4.9	7.1	9.9	4	3.8	3.2	3	3.4
Lead	SB*	200-500	16.9	3	5.3	3.5	7.2	5.7	2.1	2.9	<2	<2.1	2.5
Mercury	0.1	0.001-0.2	<0.033	<0.033	<0.033	<0.032	<0.034	0.041	<0.034	<0.033	<0.03	<0.032	<0.033
Nickel	13 or SB	0.5-25	5.6	<4.1	<4	<4	5.8	6.1	4	<4.2	<4.1	<4.1	<4.2
Selenium	2 or SB	0.1-3.9	<2	<2	<2	<2	<2.1	<2	<2	<2.1	<2	<2.1	<2.1
Silver	SB	NA	<1	<1	<1	<1	<1	<1	<1	<1.1	<1	<1	<1.1
Thallium	NA	NA	<1	<1	<1	<1	<1	<1	<1	<1.1	<1	<1	<1.1
Zinc	20 or SB	9-50	19.1	6.2	10	11	16.1	14.5	8	6.7	5.1	4.6	5.2

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Table 3
SOIL ANALYTICAL DATA - METALS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

Sample ID			SB-13		SB-14	SB-15	SB-16	SB-17	SB-18	SB-19	
Sample Depth (fbg)			20-22.5	20-22.5	24-28	22-26	24-28	24-27	20-25	17-22	24-28
Sample Date			7/30/08	7/30/08	8/19/08	8/20/08	8/18/08	8/17/08	8/15/08	8/19/08	8/18/08
Parameter	NYSDEC RSCO	Eastern USA Background									
Antimony	SB	NA	<2	<2	<2	<2	<2.1	<2	<2	<2	<2.1
Arsenic	7.5 or SB	3-12	<2	2.2	<2	<2	<2.1	<2	<2	<2	<2.1
Beryllium	0.16 or SB	0-1.75	<0.51	<0.5	<0.51	<0.51	<0.51	<0.49	<0.5	<0.5	<0.53
Cadmium	1 or SB	0.1-1	<0.51	<0.5	<0.51	<0.51	<0.51	<0.49	<0.5	<0.5	<0.53
Chromium	10 or SB	1.5-40	12.3	7.5	4.1	8.2	10.3	7.7	7.4	12.1	4.8
Copper	25 or SB	1-50	8.8	3.5	3.6	2.9	3.5	3.7	4.7	4.2	2.8
Lead	SB*	200-500	32.8	2	<2	<2	3.3	<2	8.6	<2	<2.1
Mercury	0.1	0.001-0.2	0.036	<0.032	<0.032	<0.033	<0.033	<0.033	<0.033	<0.031	<0.031
Nickel	13 or SB	0.5-25	5.2	<4	<4.1	<4.1	<4.1	<3.9	<4	<4	<4.2
Selenium	2 or SB	0.1-3.9	<2	<2	<2	<2	<2.1	<2	<2	<2	<2.1
Silver	SB	NA	<1	<0.99	<1	<1	<1	<0.98	<1	<1	<1.1
Thallium	NA	NA	<1	<0.99	<1	<1	<1	<0.98	<1	<1	<1.1
Zinc	20 or SB	9-50	15.8	6.8	3.8	6.3	7.7	6.2	13.9	7	3.5

Notes:

*Background levels for lead vary widely. Average backgound levels in metropolitan or suburban areas or near highways typically range from 200-500 mg/kg.

Concentrations are reported in milligrams per kilogram (mg/kg).

Eastern USA Background - Per NYSDEC Technical and Administrative Guidance Memorandum No. 4046, January 24, 1994.

fbg - feet below grade

NA - not available

NYSDEC RSCOs - New York State Department of Environmental Conservation Recommended Soil Cleanup Objectives, Technical and Administrative Guidance Memorandum No. 4046, January 24, 1994.

SB - site background levels

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Table 4
SOIL ANALYTICAL DATA - POLYCHLORINATED BIPHENYLS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

Sample ID		SB-1	SB-3	SB-4	SB-8	SB-9	SB-10	SB-11	SB-12	SB-13		SB-14
Sample Depth (fbg)		25-28	20-27	25-28	22-28	24-28	22-27	24-27	24-28	20-22.5	20-22.5	24-28
Sample Date		8/2/08	8/19/08	8/14/08	8/20/08	8/19/08	8/19/08	8/21/08	8/17/08	7/30/08	7/30/08	8/19/08
Parameter	NYSDEC RSCO											
Aroclor 1016	10	<0.1	<0.034	<0.034	<0.034	<0.033	<0.034	<0.035	<0.035	<0.035	<0.035	<0.034
Aroclor 1221	10	<0.1	<0.034	<0.034	<0.034	<0.033	<0.034	<0.035	<0.035	<0.035	<0.035	<0.034
Aroclor 1232	10	<0.1	<0.034	<0.034	<0.034	<0.033	<0.034	<0.035	<0.035	<0.035	<0.035	<0.034
Aroclor 1242	10	<0.1	<0.034	<0.034	<0.034	<0.033	<0.034	<0.035	<0.035	<0.035	<0.035	<0.034
Aroclor 1248	10	<0.1	<0.034	<0.034	<0.034	<0.033	<0.034	<0.035	<0.035	<0.035	<0.035	<0.034
Aroclor 1254	10	<0.1	<0.034	<0.034	<0.034	<0.033	<0.034	<0.035	<0.035	<0.035	<0.035	<0.034
Aroclor 1260	10	<0.1	<0.034	<0.034	<0.034	<0.033	<0.034	<0.035	<0.035	<0.035	<0.035	<0.034

Table 4
SOIL ANALYTICAL DATA - POLYCHLORINATED BIPHENYLS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

Sample ID		SB-15	SB-16	SB-17	SB-18	SB-19	
Sample Depth (fbg)		22-26	24-28	24-27	20-25	17-22	24-28
Sample Date		8/20/08	8/18/08	8/17/08	8/15/08	8/19/08	8/18/08
Parameter	NYSDEC RSCO						
Aroclor 1016	**10**	<0.035	<0.033	<0.033	<0.034	<0.034	<0.034
Aroclor 1221	**10**	<0.035	<0.033	<0.033	<0.034	<0.034	<0.034
Aroclor 1232	**10**	<0.035	<0.033	<0.033	<0.034	<0.034	<0.034
Aroclor 1242	**10**	<0.035	<0.033	<0.033	<0.034	<0.034	<0.034
Aroclor 1248	**10**	<0.035	<0.033	<0.033	<0.034	<0.034	<0.034
Aroclor 1254	**10**	<0.035	<0.033	<0.033	<0.034	<0.034	<0.034
Aroclor 1260	**10**	<0.035	<0.033	<0.033	<0.034	<0.034	<0.034

Notes:

<1.0 - Not detected at or above the laboratory reporting limit shown

Concentrations measured in milligrams per kilogram (mg/kg)

fbg - feet below grade

mg/kg - milligrams per kilogram (parts per million)

NYSDEC RSCO - New York State Department of Environmental Conservation, Recommended Soil Cleanup Objectives for Gasoline Contaminated and Fuel Oil Contaminated Soils, August 22, 2001

PCBs - polychlorinated biphenyls

Table 5
SOIL ANALYTICAL DATA - TOTAL PETROLEUM HYDROCARBONS/DRO/GRO

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

Sample ID	SB-1	SB-2		SB-3	SB-4	SB-5	SB-8	SB-9	SB-10	SB-11	SB-12	SB-13	
Sample Depth (fbg)	25-28	15-20	25-28	20-27	25-28	25-28	22-28	24-28	22-27	24-27	24-28	20-22.5	20-22.5
Sample Date / Parameter	8/2/08	8/13/08	8/13/08	8/19/08	8/14/08	8/13/08	8/20/08	8/19/08	8/19/08	8/21/08	8/17/08	7/30/08	7/30/08
TPH-DRO	323	17.5	71.7	<6.9	110	124	<6.7	<6.8	<6.8	<7.1	<7	19.7	9.97
TPH-GRO	18.1	<11	<11	<9.8	<11	<10	<9.8	<11	<11	<11	<11	<12	<11

Table 5
SOIL ANALYTICAL DATA - TOTAL PETROLEUM HYDROCARBONS/DRO/GRO

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

Sample ID	SB-14	SB-15	SB-16	SB-17	SB-18	SB-19	
Sample Depth (fbg)	24-28	22-26	24-28	24-27	20-25	17-22	24-28
Sample Date / Parameter	8/19/08	8/20/08	8/18/08	8/17/08	8/15/08	8/19/08	8/18/08
TPH-DRO	<6.7	21.1	88.7	<6.7	<7	<6.8	<6.8
TPH-GRO	<11	<11	<11	<9.9	<11	<11	<11

Notes:

<1.0 - Not detected at or above the laboratory reporting limit shown

Concentrations measured in milligrams per kilogram (mg/kg)

Suffolk County Department of Health Services - TPH cleanup objective is 500 mg/kg.

DRO - diesel range organics

fbg - feet below grade

GRO - gasoline range organics

TPH - total petroleum hydrocarbons

Table 6

GROUNDWATER ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS (PPL Part 1)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Acetone (µg/L)	Acrolein (µg/L)	Acrylonitrile (µg/L)	Bromodichloro-methane (µg/L)	Bromoform (µg/L)	Bromomethane (µg/L)	2-Butanone (MEK) (µg/L)	n-Butylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Carbon Tetrachloride (µg/L)	Chlorobenzene (µg/L)	Comments
NYSDEC Standards		**1**	**5**	**5**	**5**	~	~	~	**5**	**5**	~	~	**5**	~	**5**	**5**	**5**	**5**	**5**	
NYSDEC Guidance Values		~	~	~	~	~	**10**	**50**	~	~	**50**	**50**	~	**50**	~	~	~	~	~	
SB-1	08/02/2008	<1.0	<1.0	<1.0	<1.0	BRL	<1.0	<10	<50	<50	<1.0	<4.0	<2.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	
SB-4	08/14/2008	<1.0	<1.0	<1.0	<1.0	BRL	<1.0	<10	<50	<50	<1.0	<4.0	<2.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	
SB-8	08/21/2008	<1.0	<1.0	<1.0	<1.0	BRL	<1.0	<10	<50	<50	<1.0	<4.0	<2.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	
SB-9	08/19/2008	<1.0	<1.0	<1.0	<1.0	BRL	<1.0	<10	<50	<50	<1.0	<4.0	<2.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	
SB-10	08/19/2008	<1.0	<1.0	<1.0	<1.0	BRL	<1.0	<10	<50	<50	<1.0	<4.0	<2.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	
SB-11	08/21/2008	<1.0	<1.0	<1.0	<1.0	BRL	<1.0	<10	<50	<50	<1.0	<4.0	<2.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	
SB-12	08/21/2008	<1.0	<1.0	<1.0	<1.0	BRL	<1.0	<10	<50	<50	<1.0	<4.0	<2.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	
SB-13	07/31/2008	<1.0	<1.0	<1.0	<1.0	BRL	<1.0	<10	<50	<50	<1.0	<4.0	<2.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	
SB-14	08/19/2008	<1.0	<1.0	<1.0	<1.0	BRL	<1.0	<10	<50	<50	<1.0	<4.0	<2.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	
SB-15	08/20/2008	<1.0	<1.0	<1.0	<1.0	BRL	<1.0	<10	<50	<50	<1.0	<4.0	<2.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	
SB-16	08/18/2008	<1.0	<1.0	<1.0	<1.0	BRL	<1.0	<10	<50	<50	<1.0	<4.0	<2.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	
SB-17	08/21/2008	<1.0	<1.0	<1.0	<1.0	BRL	<1.0	<10	<50	<50	<1.0	<4.0	<2.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	
SB-18	08/15/2008	<1.0	<1.0	<1.0	<1.0	BRL	<1.0	<10	<50	<50	<1.0	<4.0	<2.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	
NC 8943	08/08/2008	<1.0	<1.0	<1.0	<1.0	BRL	<1.0	<10	<50	<50	<1.0	<4.0	<2.0	<10	NA	NA	NA	<1.0	<1.0	
NC 8944	08/08/2008	<1.0	<1.0	<1.0	<1.0	BRL	<1.0	<10	<50	<50	<1.0	<4.0	<2.0	<10	NA	NA	NA	<1.0	<1.0	
Equipment Blank	08/21/2008	<1	<1	<1	<1	BRL	<1	<10	<50	<50	<1	<4	<2	<10	<5	<5	<5	<1	<1	
Trip Blank	08/14/2008	<1.0	<1.0	<1.0	<1.0	BRL	<1.0	<10	<50	<50	<1.0	<4.0	<2.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	
	08/15/2008	<1.0	<1.0	<1.0	<1.0	BRL	<1.0	<10	<50	<50	<1.0	<4.0	<2.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	
	08/19/2008	<1.0	<1.0	<1.0	<1.0	BRL	<1.0	<10	<50	<50	<1.0	<4.0	<2.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	
	08/20/2008	<1.0	<1.0	<1.0	<1.0	BRL	<1.0	<10	<50	<50	<1.0	<4.0	<2.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	
	08/21/2008	<1	<1	<1	<1	BRL	<1	<10	<50	<50	<1	<4	<2	<10	<5	<5	<5	<1	<1	

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Table 6 (Continued)

GROUNDWATER ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS (PPL Part 1)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Notes:

<1.0 - Not detected at or above the laboratory reporting limit shown

µg/L - micrograms per liter (parts per billion)

BRL - Below laboratory reporting limits

BTEX - Sum of benzene, toluene, ethylbenzene, and total xylenes

MTBE - methyl tertiary-butyl ether

NA - Not analyzed

NS - Not sampled

NYSDEC Standards and Guidance Values - New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values, June 1998 and Addendum April 2000

Shading - Reported concentration detected above the applicable standard(s) or guidance value(s)

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Table 6

GROUNDWATER ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS (PPL Part 2)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Well ID	Date	Chloroethane (µg/L)	2-Chloroethyl vinyl ether	Chloroform (µg/L)	Chloromethane (µg/L)	Dibromochloromethane	1,2-Dichlorobenzene (µg/L)	1,3-Dichlorobenzene (µg/L)	1,4-Dichlorobenzene (µg/L)	Dichlorodifluoromethane (CFC-12)	1,1-Dichloroethane (µg/L)	1,2-Dichloroethane (EDC)	1,1-Dichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	trans-1,2-Dichloroethene	1,2-Dichloropropane (µg/L)	1,3-Dichloropropane (µg/L)	Comments
NYSDEC Standards		**5**	**~**	**7**	**5**	**~**	**3**	**3**	**3**	**5**	**5**	**0.6**	**5**	**5**	**5**	**1**	**5**	
NYSDEC Guidance Values		**~**	**~**	**~**	**~**	**50**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	
SB-1	08/02/2008	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	
SB-4	08/14/2008	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	
SB-8	08/21/2008	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.3 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	
SB-9	08/19/2008	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	
SB-10	08/19/2008	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	
SB-11	08/21/2008	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	
SB-12	08/21/2008	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	
SB-13	07/31/2008	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	
SB-14	08/19/2008	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	
SB-15	08/20/2008	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	
SB-16	08/18/2008	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	
SB-17	08/21/2008	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	
SB-18	08/15/2008	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	
NC 8943	08/08/2008	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	
NC 8944	08/08/2008	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	
Equipment Blank	08/21/2008	<1	<10	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<5	
Trip Blank	08/14/2008	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	
	08/15/2008	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	
	08/19/2008	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	
	08/20/2008	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	
	08/21/2008	<1	<10	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<5	

Table 6 (Continued)

GROUNDWATER ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS (PPL Part 2)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Notes:

<1.0 - Not detected at or above the laboratory reporting limit shown

µg/L - micrograms per liter (parts per billion)

J - Indicates an estimated value

NA - Not analyzed

NS - Not sampled

NYSDEC Standards and Guidance Values - New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values, June 1998 and Addendum April 2000

Shading - Reported concentration detected above the applicable standard(s) or guidance value(s)

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Table 6

GROUNDWATER ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS (PPL Part 3)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Well ID	Date	cis-1,3-Dichloro-propene	trans-1,3-Dichloro-propene	Isopropyl-benzene	p-Isopropyl-toluene	4-Methyl-2-pentanone	Dichloro-methane	Naph-thalene	n-Propyl-benzene	Styrene	1,1,2,2-Tetra-chloro-ethane	Tetra-chloro-ethene	1,2,4-Trichloro-benzene	1,1,1-Trichloro-ethane	1,1,2-Trichloro-ethane	Comments
NYSDEC Standards		**0.4**	**0.4**	**5**	**5**	**~**	**5**	**10**	**5**	**5**	**5**	**5**	**5**	**5**	**1**	
SB-1	08/02/2008	<1.0	<1.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	
SB-4	08/14/2008	<1.0	<1.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	
SB-8	08/21/2008	<1.0	<1.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	
SB-9	08/19/2008	<1.0	<1.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	
SB-10	08/19/2008	<1.0	<1.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	
SB-11	08/21/2008	<1.0	<1.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	
SB-12	08/21/2008	<1.0	<1.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	
SB-13	07/31/2008	<1.0	<1.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	
SB-14	08/19/2008	<1.0	<1.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	
SB-15	08/20/2008	<1.0	<1.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	
SB-16	08/18/2008	<1.0	<1.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	
SB-17	08/21/2008	<1.0	<1.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	
SB-18	08/15/2008	<1.0	<1.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	
NC 8943	08/08/2008	<1.0	<1.0	NA	NA	<5.0	<2.0	NA	NA	<5.0	<1.0	<1.0	NA	<1.0	<1.0	
NC 8944	08/08/2008	<1.0	<1.0	NA	NA	<5.0	<2.0	NA	NA	<5.0	<1.0	<1.0	NA	<1.0	<1.0	
Equipment Blank	08/21/2008	<1	<1	<2	<5	<5	<2	<5	<5	<5	<1	<1	<5	<1	<1	
Trip Blank	08/14/2008	<1.0	<1.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	
	08/15/2008	<1.0	<1.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	
	08/19/2008	<1.0	<1.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	
	08/20/2008	<1.0	<1.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	
	08/21/2008	<1	<1	<2	<5	<5	<2	<5	<5	<5	<1	<1	<5	<1	<1	

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Table 6 (Continued)

GROUNDWATER ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS (PPL Part 3)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Notes:

<1.0 - Not detected at or above the laboratory reporting limit shown

µg/L - micrograms per liter (parts per billion)

NA - Not analyzed

NS - Not sampled

NYSDEC Standards and Guidance Values - New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values, June 1998 and Addendum April 2000

Shading - Reported concentration detected above the applicable standard(s) or guidance value(s)

The NYSDEC Standard of 0.4 µg/L for cis-1,3-Dichloropropene and trans-1,3-Dichloropropene applies to the sum of these two compounds.

All concentrations are reported in micrograms per liter (ug/L).

Table 7

GROUNDWATER ANALYTICAL DATA - SEMI-VOLATILE ORGANIC COMPOUNDS (PAHs)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Well ID	Date	Acenaph-thene	Anthra-cene	Benzo(a)-anthracene	Benzo(b)-fluoran-thene	Benzo(k)-fluoran-thene	Benzo-(g,h,i)-perylene	Benzo(a)-pyrene	Chrysene	Dibenzo-(a,h)-anthracene	Fluor-anthene	Fluorene	Indeno-(1,2,3-cd) pyrene	Naph-thalene	Phenan-threne	Pyrene	Comments
NYSDEC Standards		~	~	~	~	~	5	~	~	~	~	~	~	~	~	~	
NYSDEC Guidance Values		**20**	**50**	**0.002**	**0.002**	**0.002**	~	**0**	**0.002**	**50**	**50**	**50**	**0.002**	**10**	**50**	**50**	
SB-1	08/02/2008	0.39 J	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	0.40 J	0.41 J	<2.0	<2.0	<2.0	<2.0	
SB-4	08/14/2008	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	
SB-8	08/21/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.69 J	<1.0	
SB-9	08/19/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	
SB-10	08/19/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.45 J	<1.0	
SB-11	08/21/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.76 J	<1.0	
SB-12	08/21/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.63 J	<1.0	
SB-13	07/31/2008	0.66 J	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	0.65 J	0.41 J	<2.0	0.36 J	1.5 J	0.82 J	
SB-14	08/19/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
SB-15	08/20/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.46 J	<1.0	<1.0	<1.0	<1.0	<1.0	
SB-16	08/18/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
SB-17	08/21/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
SB-18	08/15/2008	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
NC 8943	08/08/2008	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
NC 8944	08/08/2008	<2.0	<2.0	0.65 J	0.91 J	0.92 J	<2.0	1.1 J	1.1 J	<2.0	2.2	<2.0	<2.0	<2.0	1.3 J	1.4 J	

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Table 7 (Continued)

GROUNDWATER ANALYTICAL DATA - SEMI-VOLATILE ORGANIC COMPOUNDS (PAHs)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Notes:

<1.0 - Not detected at or above the laboratory reporting limit shown

µg/L - micrograms per liter (parts per billion)

J - Indicates an estimated value

NA - Not analyzed

NS - Not sampled

NYSDEC Standards and Guidance Values - New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values, June 1998 and Addendum April 2000

PAH - polycyclic aromatic hydrocarbons

Shading - Reported concentration detected above the applicable standard(s) or guidance value(s)

The NYSDEC Guidance Value for Benzo(a)pyrene is ND (non-detect).

All concentrations are reported in micrograms per liter (ug/L).

Table 7

GROUNDWATER ANALYTICAL DATA - SEMI-VOLATILE ORGANIC COMPOUNDS (Phenols, Phthalates, Others)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Well ID	Date	4-Chloro-3-methyl phenol (µg/L)	2-Chlorophenol (µg/L)	2,4-Dichlorophenol (µg/L)	2,4-Dimethylphenol (µg/L)	2,4-Dinitrophenol (µg/L)	2-Nitrophenol (µg/L)	4-Nitrophenol (µg/L)	Pentachlorophenol (µg/L)	Phenol (µg/L)	2,4,6-Trichlorophenol (µg/L)	Total Phenolic Compounds (µg/L)	bis (2-Ethylhexyl) phthalate (µg/L)	Butyl benzyl phthalate (µg/L)	Diethyl phthalate (µg/L)	Dimethyl phthalate (µg/L)	Di-n-butyl phthalate (µg/L)	Di-n-octyl phthalate (µg/L)	bis (2-Chloroethyl) ether (µg/L)	bis (2-Chloroisopropyl)	4-Bromophenyl phenyl	Comments
NYSDEC Standards		**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**5**	**~**	**~**	**~**	**50**	**~**	**1**	**5**	**~**	
NYSDEC Guidance Values		**~**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	**50**	**50**	**50**	**~**	**50**	**~**	**~**	**~**	
SB-1	08/02/2008	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<20	<10	<2.0	<5.0	<77	1.6 J	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
SB-4	08/14/2008	<5.6	<5.6	<5.6	<5.6	<22	<5.6	<22	<11	<2.2	<5.6	<85	1.3 J	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	
SB-8	08/21/2008	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<20	<10	<2.0	<5.0	<77	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
SB-9	08/19/2008	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<20	<10	<2.0	<5.0	<77	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
SB-10	08/19/2008	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<20	<10	<2.0	<5.0	<77	<2.0	<2.0	<2.0	<2.0	3.1	<2.0	<2.0	<2.0	<2.0	
SB-11	08/21/2008	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<20	<10	<2.0	<5.0	<77	4.3	<2.0	<2.0	<2.0	6.1	<2.0	<2.0	<2.0	<2.0	
SB-12	08/21/2008	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<20	<10	<2.0	<5.0	<77	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
SB-13	07/31/2008	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<20	<10	<2.0	<5.0	<77	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
SB-14	08/19/2008	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<20	<10	<2.0	<5.0	<77	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
SB-15	08/20/2008	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<20	<10	<2.0	<5.0	<77	<2.0	<2.0	<2.0	<2.0	1.6 J	<2.0	<2.0	<2.0	<2.0	
SB-16	08/18/2008	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<20	<10	<2.0	<5.0	<77	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
SB-17	08/21/2008	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<20	<10	<2.0	<5.0	<77	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
SB-18	08/15/2008	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<20	<10	<2.0	<5.0	<77	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
NC 8943	08/08/2008	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<20	<10	<2.0	<5.0	<77	8.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
NC 8944	08/08/2008	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<20	<10	<2.0	<5.0	<77	3.9	<2.0	6.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	

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Table 7 (Continued)

GROUNDWATER ANALYTICAL DATA - SEMI-VOLATILE ORGANIC COMPOUNDS (Phenols, Phthalates, Others)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Notes:

<1.0 - Not detected at or above the laboratory reporting limit shown

µg/L - micrograms per liter (parts per billion)

J - Indicates an estimated value

NA - Not analyzed

NS - Not sampled

NYSDEC Standards and Guidance Values - New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values, June 1998 and Addendum April 2000

Shading - Reported concentration detected above the applicable standard(s) or guidance value(s)

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Table 7

GROUNDWATER ANALYTICAL DATA - SEMI-VOLATILE ORGANIC COMPOUNDS (Chlorinated, Other)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Well ID	Date	2-Chloroethyl vinyl ether (µg/L)	4-Chlorophenyl phenyl ether (µg/L)	Benzidine (µg/L)	bis (2-Chloroethyoxy)	p-Chloroaniline (µg/L)	2-Chloronaphthalene (µg/L)	1,2-Dichlorobenzene (µg/L)	1,3-Dichlorobenzene (µg/L)	1,4-Dichlorobenzene (µg/L)	4,6-Dinitro-o-cresol (µg/L)	2,4-Dinitrotoluene (µg/L)	2,6-Dinitrotoluene (µg/L)	1,2-Diphenylhydrazine (µg/L)	Hexachlorobenzene (µg/L)	Hexachlorocyclo-pentadiene (µg/L)	Hexachloroethane (µg/L)	Isophorone (µg/L)	Nitrobenzene (µg/L)	N-Nitroso-di-n-propylamine (µg/L)	n-Nitrosodi-phenylamine (µg/L)	Comments
NYSDEC Standards		~	~	**5**	**5**	**5**	~	**3**	**3**	**30**	~	**5**	**5**	~	**0.04**	**5**	**5**	~	**0.4**	~	~	
NYSDEC Guidance Values		~	~	~	~	~	**10**	~	~	~	~	~	~	**0.05**	~	~	~	**50**	~	~	**50**	
SB-1	08/02/2008	<10	<2.0	<20	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<20	<5.0	<2.0	<2.0	<2.0	<5.0	
SB-4	08/14/2008	<10	<2.2	<22	<2.2	<5.6	<5.6	<1.0	<1.0	<2.2	<22	<2.2	<2.2	<2.2	<2.2	<22	<5.6	<2.2	<2.2	<2.2	<5.6	
SB-8	08/21/2008	<10	<2.0	<20	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<20	<5.0	<2.0	<2.0	<2.0	<5.0	
SB-9	08/19/2008	<10	<2.0	<20	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<20	<5.0	<2.0	<2.0	<2.0	<5.0	
SB-10	08/19/2008	<10	<2.0	<20	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<20	<5.0	<2.0	<2.0	<2.0	<5.0	
SB-11	08/21/2008	<10	<2.0	<20	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<20	<5.0	<2.0	<2.0	<2.0	<5.0	
SB-12	08/21/2008	<10	<2.0	<20	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<20	<5.0	<2.0	<2.0	<2.0	<5.0	
SB-13	07/31/2008	<10	<2.0	<20	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<20	<5.0	<2.0	<2.0	<2.0	<5.0	
SB-14	08/19/2008	<10	<2.0	<20	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<20	<5.0	<2.0	<2.0	<2.0	<5.0	
SB-15	08/20/2008	<10	<2.0	<20	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<20	<5.0	<2.0	<2.0	<2.0	<5.0	
SB-16	08/18/2008	<10	<2.0	<20	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<20	<5.0	<2.0	<2.0	<2.0	<5.0	
SB-17	08/21/2008	<10	<2.0	<20	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<20	<5.0	<2.0	<2.0	<2.0	<5.0	
SB-18	08/15/2008	<10	<2.0	<20	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<20	<5.0	<2.0	<2.0	<2.0	<5.0	
NC 8943	08/08/2008	<10	<2.0	<20	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<20	<5.0	<2.0	<2.0	<2.0	<5.0	
NC 8944	08/08/2008	<10	<2.0	<20	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<20	<5.0	<2.0	<2.0	<2.0	<5.0	

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Table 7 (Continued)

GROUNDWATER ANALYTICAL DATA - SEMI-VOLATILE ORGANIC COMPOUNDS (Chlorinated, Other)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Notes:

<1.0 - Not detected at or above the laboratory reporting limit shown

µg/L - micrograms per liter (parts per billion)

NA - Not analyzed

NS - Not sampled

NYSDEC Standards and Guidance Values - New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values, June 1998 and Addendum April 2000

Shading - Reported concentration detected above the applicable standard(s) or guidance value(s)

Table 8

GROUNDWATER ANALYTICAL DATA - RCRA METALS (TOTALS)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Well ID	Date	Antimony (µg/L) unfiltered	Arsenic (µg/L) unfiltered	Beryllium (µg/L) unfiltered	Cadmium (µg/L) unfiltered	Chromium (µg/L) unfiltered	Copper (µg/L) unfiltered	Lead (µg/L) unfiltered	Mercury (µg/L) unfiltered	Nickel (µg/L) unfiltered	Selenium (µg/L) unfiltered	Silver (µg/L) unfiltered	Thallium (µg/L) unfiltered	Zinc (µg/L) unfiltered	Comments
NYSDEC Standards		**3**	**25**	**~**	**5**	**50**	**200**	**25**	**0.7**	**100**	**10**	**50**	**~**	**~**	
NYSDEC Guidance Values		**~**	**~**	**3**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	**0.5**	**2000**	
SB-1	08/02/2008	<6.0	7.1	<1.0	<4.0	103	44.3	23.4	<0.20	<40	<10	<10	<10	41.1	
SB-4	08/14/2008	<6.0	4.7	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<10	<20	
SB-8	08/21/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<2.0	<20	
SB-9	08/19/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<2.0	<20	
SB-10	08/19/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<2.0	32.9	
SB-11	08/21/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<2.0	<20	
SB-12	08/21/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	3.9	<0.20	<40	<10	<10	<2.0	<20	
SB-13	07/31/2008	<6.0	<3.0	<1.0	<4.0	164	57.5	9.4	<0.20	<40	<10	<10	<10	46.9	
SB-14	08/19/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<2.0	<20	
SB-15	08/20/2008	<6.0	3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<2.0	22.4	
SB-16	08/18/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	4.8	<20	
SB-17	08/21/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<2.0	<20	
SB-18	08/15/2008	<6.0	3.2	<1.0	<4.0	131	38.4	23.1	<0.20	<40	<10	<10	<10	59.8	
NC 8943	08/08/2008	<6.0	<3.0	<1.0	<4.0	18.8	<25	112	<0.20	<40	<10	<10	<10	188	
NC 8944	08/08/2008	<6.0	4.2	<1.0	7.4	16.8	25.7	273	<0.20	<40	<10	<10	<10	15900	

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Table 8 (Continued)

GROUNDWATER ANALYTICAL DATA - RCRA METALS (TOTALS)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Notes:

<1.0 - Not detected at or above the laboratory reporting limit shown

µg/L - micrograms per liter (parts per billion)

NA - Not analyzed

NS - Not sampled

NYSDEC Standards - New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values, June 1998 and Addendum April 2000

RCRA - Resource Conservation and Recovery Act

Shading - Reported concentration detected above the applicable standard(s) or guidance value(s)

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Table 9

GROUNDWATER ANALYTICAL DATA - RCRA METALS (DISSOLVED)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Well ID	Date	Antimony, Filtered (µg/L)	Arsenic, Filtered (µg/L)	Beryllium, Filtered (µg/L)	Cadmium, Filtered (µg/L)	Chromium, Filtered (µg/L)	Copper, Filtered (µg/L)	Lead, Filtered (µg/L)	Mercury, Filtered (µg/L)	Nickel, Filtered (µg/L)	Selenium, Filtered (µg/L)	Silver, Filtered (µg/L)	Thallium, Filtered (µg/L)	Zinc, Filtered (µg/L)	Comments
NYSDEC Standards		**3**	**25**	**~**	**5**	**50**	**200**	**25**	**0.7**	**100**	**10**	**50**	**~**	**~**	
NYSDEC Guidance Values		**~**	**~**	**3**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	**~**	**0.5**	**2000**	
SB-1	08/02/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<10	<20	
SB-4	08/14/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<10	<20	
SB-8	08/21/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<2.0	<20	
SB-9	08/19/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<2.0	<20	
SB-10	08/19/2008	<6.0	<3.0	<1.0	<4.0	38.7	<25	<3.0	<0.20	<40	<10	<10	<2.0	27.0	
SB-11	08/21/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<2.0	<20	
SB-12	08/21/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<2.0	<20	
SB-13	07/31/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<10	<20	
SB-13 Dup	07/31/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<10	<20	
SB-14	08/19/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<2.0	<20	
SB-15	08/20/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<2.0	<20	
SB-16	08/18/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	2.5	<20	
SB-17	08/21/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<2.0	<20	
SB-18	08/15/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<10	<20	
NC 8943	08/08/2008	<6.0	<3.0	<1.0	<4.0	<10	<25	<3.0	<0.20	<40	<10	<10	<10	<20	
NC 8944	08/08/2008	<6.0	<3.0	<1.0	8.2	<10	<25	6.9	<0.20	<40	<10	<10	<10	6980	

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Table 9 (Continued)

GROUNDWATER ANALYTICAL DATA - RCRA METALS (DISSOLVED)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Notes:

<1.0 - Not detected at or above the laboratory reporting limit shown

µg/L - micrograms per liter (parts per billion)

NA - Not analyzed

NS - Not sampled

NYSDEC Standards - New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values, June 1998 and Addendum April 2000

RCRA - Resource Conservation and Recovery Act

Shading - Reported concentration detected above the applicable standard(s) or guidance value(s)

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Table 10

GROUNDWATER ANALYTICAL DATA - POLYCHLORINATED BIPHENYLS (PCBs)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Well ID	Date	Aroclor 1016 (µg/L)	Aroclor 1221 (µg/L)	Aroclor 1232 (µg/L)	Aroclor 1242 (µg/L)	Aroclor 1248 (µg/L)	Aroclor 1254 (µg/L)	Aroclor 1260 (µg/L)	Total PCBs (µg/L)	Comments
NYSDEC Standards		~	~	~	~	~	~	~	**0.09**	
SB-1	08/02/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	BRL	
SB-4	08/14/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	BRL	
SB-8	08/21/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	BRL	
SB-9	08/19/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	BRL	
SB-10	08/19/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	BRL	
SB-11	08/21/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	BRL	
SB-12	08/21/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	BRL	
SB-13	07/31/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	BRL	
SB-14	08/19/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	BRL	
SB-15	08/20/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	BRL	
SB-16	08/18/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	BRL	
SB-17	08/21/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	BRL	
SB-18	08/15/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	BRL	
NC 8943	08/08/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	BRL	
NC 8944	08/08/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	BRL	

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Table 10 (Continued)

GROUNDWATER ANALYTICAL DATA - POLYCHLORINATED BIPHENYLS (PCBs)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Notes:

<1.0 - Not detected at or above the laboratory reporting limit shown

µg/L - micrograms per liter (parts per billion)

NA - Not analyzed

NS - Not sampled

NYSDEC Standards - New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values, June 1998 and Addendum April 2000

Shading - Reported concentration detected above the applicable standard(s) or guidance value(s)

Table 11

GROUNDWATER ANALYTICAL DATA - TOTAL PETROLEUM HYDROCARBONS/DRO/GRO

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

July 31, 2008 through August 21, 2008

Well ID	Date	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Total BTEX (µg/L)	Methyl Tertiary Butyl Ether	Comments
NYSDEC Guidance Values		~	~	~	**10**	
SB-1	08/02/2008	<0.10	<0.20	BRL	<1.0	
SB-4	08/14/2008	<0.10	<0.20	BRL	<1.0	
SB-8	08/21/2008	<0.10	<0.20	BRL	<1.0	
SB-9	08/19/2008	0.185	<0.20	BRL	<1.0	
SB-10	08/19/2008	0.365	<0.20	BRL	<1.0	
SB-11	08/21/2008	0.121	<0.20	BRL	<1.0	
SB-12	08/21/2008	<0.10	<0.20	BRL	<1.0	
SB-13	07/31/2008	<0.10	<0.20	BRL	<1.0	
SB-14	08/19/2008	<0.10	<0.20	BRL	<1.0	
SB-15	08/20/2008	0.192	<0.20	BRL	<1.0	
SB-16	08/18/2008	<0.10	<0.20	BRL	<1.0	
SB-17	08/21/2008	<0.10	<0.20	BRL	<1.0	
SB-18	08/15/2008	<0.10	<0.20	BRL	<1.0	
NC 8943	08/08/2008	0.294	<0.20	BRL	<1.0	
NC 8944	08/08/2008	0.200	<0.20	BRL	<1.0	

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Table 11 (Continued)

GROUNDWATER ANALYTICAL DATA - TOTAL PETROLEUM HYDROCARBONS/DRO/GRO

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York

July 31, 2008 through August 21, 2008

Notes:

<1.0 - Not detected at or above the laboratory reporting limit shown

µg/L - micrograms per liter (parts per billion)

BRL - Below laboratory reporting limits

BTEX - Sum of benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

GRO - gasoline range organics

mg/L - milligrams per liter (parts per million)

NA - Not analyzed

NS - Not sampled

NYSDEC Standards - New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values, June 1998 and Addendum April 2000

Shading - Reported concentration detected above the applicable standard(s) or guidance value(s)

TPH - total petroleum hydrocarbons

Table 12
GROUNDWATER ANALYTICAL DATA - ETHYLENE GLYCOL

Lighthouse Development Project
1255 Hempstead Turnpike
Uniondale, New York

Sample ID	Sample Depth (fbg)	Sample Date	Ethylene Glycol
NYSDEC Standard			**~**
GP-8	22-28	8/20/08	<20
GP-9	24-28	8/19/08	<20
GP-14	24-28	8/20/08	<20

Notes:

~ - no standard or guidance value exists

Concentrations measured in milligrams per liter (mg/L)

fbg - feet below grade

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Table 13
GROUNDWATER ELEVATION MEASUREMENTS

Lighthouse Development Project
1255 Hempstead Turnpike
Uniondale, New York

Well ID	TOC	DTW	WTE (above mean sea level)
SB-1	76.18	26.5	49.68
SB-12	78.47	27.25	51.22
SB-9	80.19	28.45	51.74
SB-17	81.41	28.27	53.14
SB-16	81.89	29.27	52.62
NC 8843	81.23	28.65	52.58
NC 8944	78.84	27.75	51.09

Notes:

DTW - depth to water

All measurements are presented in feet.

Temporary wells and Nassau County monitoring wells surveyed on August 20, 2008 by Control Point Assciates, Inc.

Temporary wells and Nassau County monitoring wells gauged on August 21, 2008 by Kleinfelder East, Inc.

TOC - top of casing elevation

WTE - water table elevation

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Table 14
SOIL ANALYTICAL DATA – VOLATILE ORGANIC COMPOUNDS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Laboratory analytical results of soil samples with reported VOC concentrations at or above method detection limits, but below the NYSDEC RSCOs were the following:

• SB-1 (25-28 fbg)			
	o Ethylbenzene	0.00062 J	mg/kg
	o Total xylenes	0.0051	mg/kg
	o Total BTEX	0.00062	mg/kg
	o n-butylbenzene	0.0067	mg/kg
	o sec-butylbenzene	0.0024 J	mg/kg
	o p-isopropyltoluene	0.0042 J	mg/kg
	o Napthalene	0.0132	mg/kg
	o n-Propybenzene	0.0018 J	mg/kg
	o Tetrachloroethene	0.00069 J	mg/kg
	o 1,2,4-Trimethylbenzene	0.0368	mg/kg
	o 1,3,5-Trimethylbenzene	0.0127	mg/kg
• SB-2 (25-28 fbg)			
	o Acetone	0.0282	mg/kg
• SB-4 (25-28 fbg)			
	o Total xylenes	0.00089 J	mg/kg
	o 1,2,4–Trimethylbenzene	0.0368	mg/kg
• SB-5			
	o Acetone	0.0226	mg/kg
• SB-16 (24-28 fbg)			
	o Toluene	0.00074 J	mg/kg
	o Total xylenes	0.0013 J	mg/kg
	o Total BTEX	0.00074	mg/kg
• SB-18 (20-25 fbg)			
	o Toluene	0.0016	mg/kg
	o Total xylenes	0.0021	mg/kg
	o Total BTEX	0.0016	mg/kg

Notes:
BTEX – benzene, toluene, ethylbenzene, and total xylenes
fbg – feet below grade
mg/kg – milligrams per kilogram
NYSDEC RSCO – New York State Department of Environmental Conservation, Recommended Soil Cleanup Objectives for Gasoline Contaminated and Fuel Oil Contaminated Soils, August 22, 2001; and NYSDEC Memorandum: Soil Cleanup Consolidation--Further Clarifications, July 10, 2001
Total Xylenes – summation of o-xylene and m & p-xylenes
Values identified with "J" are estimated values by the laboratory.
VOC – volatile organic compounds

Table 15
SOIL ANALYTICAL DATA – SEMI-VOLATILE ORGANIC COMPOUNDS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Laboratory analytical results of soil samples with reported SVOC concentrations at or above method detection limits, but below the NYSDEC RSCOs were the following:

- SB-1 (25-28 fbg)

o Acenapthene	0.0319 J	mg/kg
o Acenaphthylene	0.0483 J	mg/kg
o Anthracene	0.0382 J	mg/kg
o Benzo(a)anthracene	0.21	mg/kg
o Benzo(b)fluoranthene	0.0169	mg/kg
o Benzo(g,h,i)perylene	0.125	mg/kg
o Benzo(k)fluoranthene	0.149	mg/kg
o Carbazole	0.0264 J	mg/kg
o Chrysene	0.242	mg/kg
o Dibenzofuran	0.0417 J	mg/kg
o Bis(2-Ethylhexyl) phthalate	0.155	mg/kg
o Fluoranthene	0.149	mg/kg
o Fluorene	0.036 J	mg/kg
o Indeno(1,2,3-cd)pyrene	0.115	mg/kg
o Phenanthrene	0.356	mg/kg
o Pyrene	0.415	mg/kg

- SB-2 (25-28 fbg)

o Benzo(a)pyrene	0.0246 J	mg/kg
o Benzo(b)fluoranthene	0.025 J	mg/kg
o Benzo(g,h,i)perylene	0.0174 J	mg/kg
o Bis(2-Ethylhexyl) phthalate	0.152	mg/kg
o 2-Methylnaphthalene	0.0421 J	mg/kg
o Naphthalene	0.0155 J	mg/kg
o Pyrene	0.0361	mg/kg

- SB-3 (20-27 fbg)

o Benzo(a)pyrene	0.0167 J	mg/kg
o Benzo(g,h,i)perylene	0.0276 J	mg/kg
o Bis(2-Ethylhexyl) phthalate	0.052 J	mg/kg
o Fluoranthene	0.0164 J	mg/kg
o Indeno(1,2,3-cd)pyrene	0.0228 J	mg/kg

- SB-4 (25-28 fbg)

o Anthracene	0.0174 J	mg/kg
o Benzo(a)anthracene	0.0635	mg/kg
o Benzo(a)pyrene	0.0586	mg/kg
o Benzo(b)fluoranthene	0.0532	mg/kg
o Benzo(g,h,i)perylene	0.0478	mg/kg
o Benzo(k)fluoranthene	0.0343	mg/kg
o Chrysene	0.0592	mg/kg
o Bis(2-Ethylhexyl) phthalate	0.527	mg/kg

Table 15
SOIL ANALYTICAL DATA – SEMI-VOLATILE ORGANIC COMPOUNDS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

o	Fluoranthene	0.1	mg/kg
o	Indeno(1,2,3-cd)pyrene	0.0432	mg/kg
o	2-Methylnaphthalene	0.0207 J	mg/kg
o	Phenanthrene	0.0461	mg/kg
o	Pyrene	0.1	mg/kg

- SB-5 (25-28 fbg)

o	Acenaphthene	0.0197 J	mg/kg
o	Benzo(a)pyrene	0.0355	mg/kg
o	Benzo(b)fluoranthene	0.0354	mg/kg
o	Benzo(g,h,i)perylene	0.0246 J	mg/kg
o	Chrysene	0.0334 J	mg/kg
o	Bis(2-Ethylhexyl) phthalate	0.274	mg/kg
o	Fluorene	0.0199 J	mg/kg
o	2-Methylnaphthalene	0.0625 J	mg/kg
o	Naphthalene	0.0259 J	mg/kg
o	Phenanthrene	0.0523	mg/kg
o	Pyrene	0.0828	mg/kg

- SB-8 (22-28 fbg)

o	Benzo(a)anthracene	0.0271 J	mg/kg
o	Benzo(k)fluoranthene	0.0233 J	mg/kg
o	Chrysene	0.031 J	mg/kg
o	Bis(2-Ethylhexyl) phthalate	0.0646 J	mg/kg
o	Fluoranthene	0.0577	mg/kg
o	Indeno(1,2,3-cd)pyrene	0.0138 J	mg/kg
o	Phenanthrene	0.0442	mg/kg
o	Pyrene	0.0507	mg/kg

- SB-9 (24-29 fbg)

o	Bis(2-Ethylhexyl) phthalate	0.0547 J	mg/kg

- SB-11 (24-27 fbg)

o	Bis(2-Ethylhexyl) phthalate	0.0606 J	mg/kg

- SB-12 (24-28 fbg)

o	Chrysene	0.0167 J	mg/kg
o	Fluoranthene	0.0248 J	mg/kg

- SB-13 (20–22.5 fbg)

o	Benzo(a)anthracene	0.0586 J	mg/kg
o	Benzo(b)fluoranthene	0.05 J	mg/kg
o	Benzo(g,h,i)perylene	0.0709 J	mg/kg
o	Benzo(k)fluoranthene	0.011	mg/kg
o	Bis(2-Ethylhexyl) phthalate	0.083	mg/kg
o	Fluoranthene	0.162	mg/kg

Table 15
SOIL ANALYTICAL DATA – SEMI-VOLATILE ORGANIC COMPOUNDS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

	o Indeno(1,2,3-cd)pyrene	0.048 J	mg/kg
	o Phenanthrene	0.0672 J	mg/kg
	o Pyrene	0.181	mg/kg
• SB-15 (22-26 fbg)			
	o Bis(2-Ethylhexyl) phthalate	0.0444 J	mg/kg
• SB-17 (24-27 fbg)			
	o Chrysene	0.0189 J	mg/kg
	o Bis(2-Ethylhexyl) phthalate	0.0457 J	mg/kg
• SB-18 (20-25 fbg)			
	o Benzo(a)anthracene	0.043	mg/kg
	o Benzo(a)pyrene	0.0478	mg/kg
	o Benzo(b)fluoranthene	0.0517	mg/kg
	o Benzo(g,h,i)perylene	0.0408	mg/kg
	o Benzo(k)fluoranthene	0.038	mg/kg
	o Chrysene	0.0507	mg/kg
	o Fluoranthene	0.087	mg/kg
	o Indeno(1,2,3-cd)pyrene	0.0345	mg/kg
	o Phenanthrene	0.0325 J	mg/kg
	o Pyrene	0.0722	mg/kg
• SB-19 (17-22 fbg)			
	o Bis(2-Ethylhexyl) phthalate	0.0366 J	mg/kg

Notes:
fbg – feet below grade
mg/kg – milligrams per kilogram
NYSDEC RSCO – New York State Department of Environmental Conservation, Recommended Soil Cleanup Objectives for Gasoline Contaminated and Fuel Oil Contaminated Soils, August 22, 2001; and NYSDEC Memorandum: Soil Cleanup Consolidation--Further Clarifications, July 10, 2001
SVOCs – semi-volatile organic compounds
Values identified with "J" are estimated values by the laboratory.

Table 16
GROUNDWATER ANALYTICAL DATA – VOLATILE ORGANIC COMPOUNDS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Laboratory analytical results of groundwater samples with reported VOC concentrations at or above method detection limits, but below the NYSDEC WQS were the following:

- SB-8
  - Dichlorodifluoromethane (CF2-12) 2.3 J µg/L

Notes:
µg/L – micrograms per liter
NYSDEC WQS – New York State Department of Environmental Conservation Water Quality Standards as published in the Division of Water *Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values Memorandum*, dated June 1998 (Addendum June 2000)
Values identified with "J" are estimated values by the laboratory.
VOC – volatile organic compounds

Table 17
GROUNDWATER ANALYTICAL DATA – SEMI-VOLATILE ORGANIC COMPOUNDS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Laboratory analytical results of groundwater samples with reported SVOC concentrations at or above method detection limits, but below the NYSDEC WQS were the following:

- SB-1
  - Acenaphthylene 0.39 J µg/L
  - Fluoranthene 0.40 J µg/L
  - Fluorene 0.41 J µg/L
  - Bis(2-Ethylhexyl) phthalate 1.6 J µg/L
- SB-4
  - Bis(2-Ethylhexyl) phthalate 1.3 J µg/L
- SB-8
  - Phenanthrene 0.69 J µg/L
- SB-9
  - Phenanthrene 1.0 µg/L
- SB-10
  - Phenanthrene 0.45 J µg/L
  - Di-n-butyl phthalate 3.1 J µg/L
- SB-11
  - Phenanthrene 0.76 J µg/L
  - Bis(2-Ethylhexyl) phthalate 4.3 µg/L
  - Di-n-butyl phthalate 6.1 µg/L
- SB-12
  - Phenanthrene 0.63 J µg/L
- SB-13
  - Acenaphthylene 0.66 J µg/L
  - Fluoranthene 0.65 J µg/L
  - Fluorene 0.41 J µg/L
  - Napthalene 0.36 J µg/L
  - Phenanthrene 1.5 J µg/L
  - Pyrene 0.82 J µg/L

Table 17
GROUNDWATER ANALYTICAL DATA – SEMI-VOLATILE ORGANIC COMPOUNDS

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

- SB-15
  - o Fluoranthene 0.46 J µg/L
  - o Di-n-butyl phthalate 1.6 J µg/L

- NC8944
  - o Fluoranthene 2.2 µg/L
  - o Phenanthrene 1.3 J µg/L
  - o Pyrene 1.4 J µg/L
  - o Bis(2-Ethylhexyl) phthalate 3.9 µg/L
  - o Diethyl phthalate 6.7 µg/L

Notes:
µg/L – micrograms per liter
NYSDEC WQS – New York State Department of Environmental Conservation Water Quality Standards as published in the Division of Water *Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values Memorandum*, dated June 1998 (Addendum June 2000)
SVOC – semi-volatile organic compounds
Values identified with "J" are estimated values by the laboratory.

Table 18
GROUNDWATER ANALYTICAL DATA – METALS (DISSOLVED)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Laboratory analytical results of groundwater samples (dissolved/filtered) with reported metal concentrations at or above method detection limits, but below the NYSDEC WQS were the following:

- SB-10
  - Chromium 38.7 µg/L
  - Zinc 27.0 µg/L
- SB-16
  - Thallium 2.5 µg/L
- NC8944
  - Cadmium 8.2 µg/L
  - Lead 6.9 µg/L
  - Zinc 6,980 µg/L

Notes:
µg/L – micrograms per liter
NYSDEC WQS – New York State Department of Environmental Conservation Water Quality Standards as published in the Division of Water *Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values Memorandum*, dated June 1998 (Addendum June 2000)

Table 19
GROUNDWATER ANALYTICAL DATA – METALS (TOTAL)

Lighthouse Development Group
1255 Hempstead Turnpike
Uniondale, New York
July 31, 2008 through August 21, 2008

Laboratory analytical results of groundwater samples (total/unfiltered) with reported metal concentrations at or above method detection limits, but below the NYSDEC WQS were the following:

- SB-1
  - Arsenic 7.1 µg/L
  - Copper 44.3 µg/L
  - Lead 23.4 µg/L
  - Zinc 41.1 µg/L
- SB-4
  - Arsenic 4.7 µg/L
- SB-10
  - Zinc 32.9 µg/L
- SB-13
  - Copper 57.5 µg/L
  - Lead 9.4 µg/L
  - Zinc 46.9 µg/L
- SB-15
  - Zinc 22.4 µg/L
- SB-18
  - Arsenic 3.2 µg/L
  - Copper 38.4 µg/L
  - Lead 23.1 µg/L
  - Zinc 59.8 µg/L
- NC8943
  - Chromium 18.8 µg/L
  - Zinc 188 µg/L
- NC8944
  - Arsenic 4.2 µg/L
  - Copper 25.7 µg/L
  - Chromium 16.8 µg/L

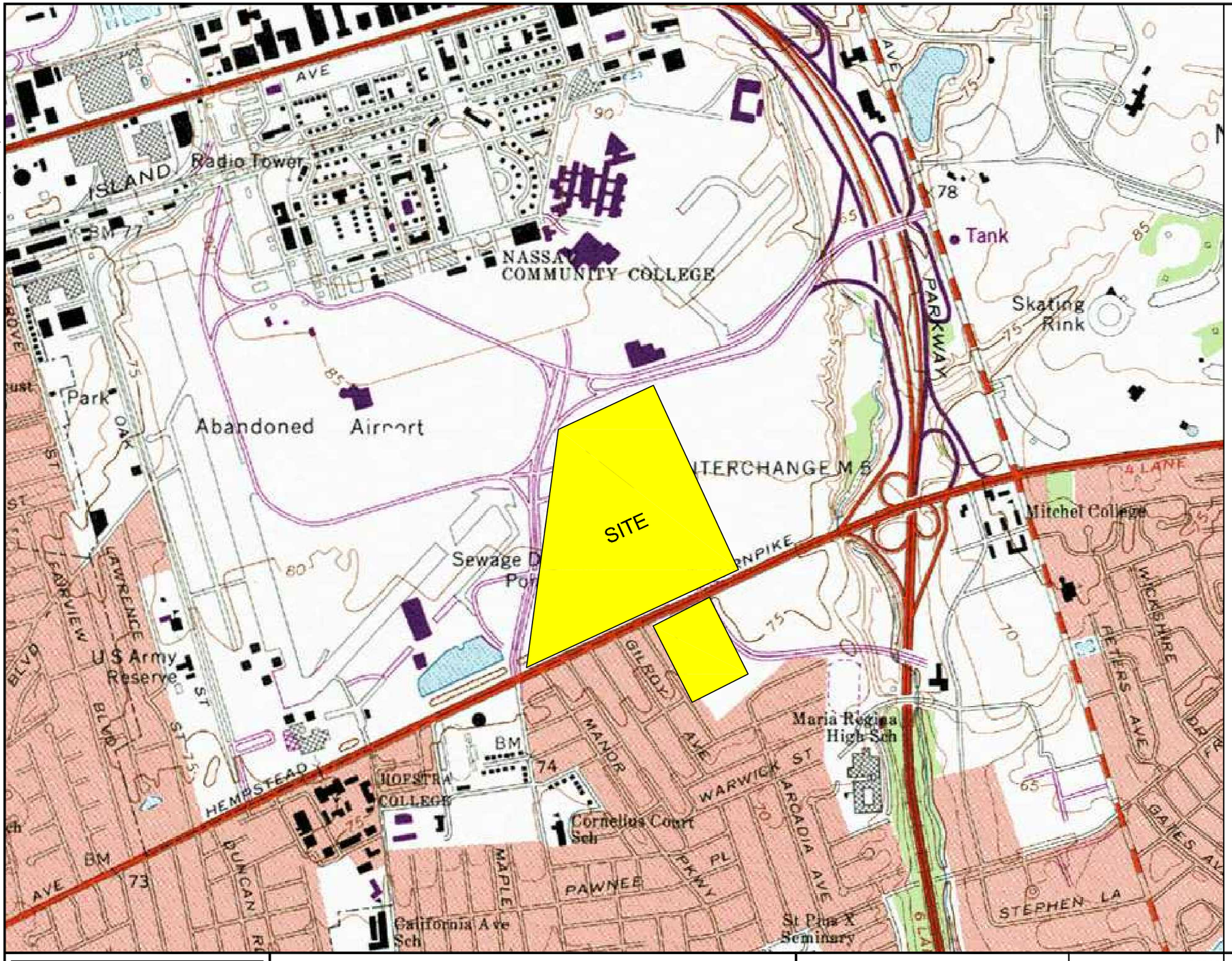
Notes:
µg/L – micrograms per liter
NYSDEC WQS – New York State Department of Environmental Conservation Water Quality Standards as published in the Division of Water *Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values Memorandum*, dated June 1998 (Addendum June 2000)

FIGURES

PLOTTED: 02 Oct 2008, 10:19am, ADiFalco

CAD FILE: L:\Projects\Light House Development\CAD\ LAYOUT: LOCUS PLAN

BOHEMIA, NY



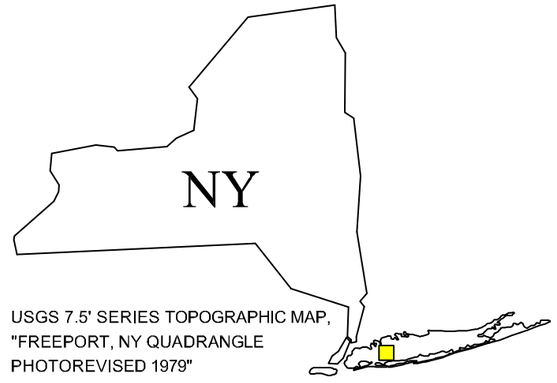
0 500 1,000 2,000

APPROXIMATE SCALE (feet)

N

LATITUDE: 40° 43' 22.27" N

LONGITUDE: 73° 35' 28.26" W



USGS 7.5' SERIES TOPOGRAPHIC MAP,
"FREEPORT, NY QUADRANGLE
PHOTOREVISED 1979"

QUADRANGLE
LOCATION

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PROJECT NO.	95906
DRAWN:	10/02/2008
DRAWN BY:	ASD
CHECKED BY:	
FILE NAME:	Lighthouse Locus.dwg

PHASE II LIMITED ENVIRONMENT SITE ASSESSMENT LOCUS PLAN

LIGHTHOUSE DEVELOPMENT GROUP, LLC
NASSAU COLISEUM
UNIONDALE, NEW YORK

FIGURE

1

LEGEND

- ● SOIL BORING LOCATION (SOIL SAMPLE)
- ▲ GROUNDWATER SAMPLE LOCATION
- NASSAU COUNTY MONITORING WELL LOCATIONS
- (TW) TEMPORARY MONITORING WELL LOCATION
- ABANDONED SOIL BORING LOCATION
- FORMER MITCHEL FIELD SEWAGE FILTER BEDS
- UST LOCATION OF 1,000 - GALLON DIESEL UNDERGROUND STORAGE TANK (UST) FOR EMERGENCY GENERATOR.

0 200 400 800

APPROXIMATE SCALE (feet)

1 INCH EQUALS 400 FEET

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NOTES:
1. SOIL BORINGS AND MONITORING WELL LOCATIONS BASED ON GPS MEASUREMENTS (LATTITUDE/LONGITUDE).
2. SB-6 NOT COMPLETED DUE TO DEBRIS AND REFUSAL- LOCATION SHOWN IS APPROXIMATE.
3. SOIL BORING SB-7 WAS INACCESSIBLE AND THEREFORE WAS NOT GPS SURVEYED ON AUGUST 8, 2008 - LOCATION IS APPROXIMATE AND BASED ON FIELD MEASUREMENTS.

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PROJECT NO.	95906
DRAWN:	09/15/2008
DRAWN BY:	J.R
CHECKED BY:	R.S
FILE NAME:	LIGHTHOUSE

PHASE II LIMITED ENVIRONMENTAL SITE ASSESSMENT SITE PLAN

LIGHTHOUSE DEVELOPMENT GROUP, LLC
NASSAU COLISEUM
UNIONDALE, NEW YORK

FIGURE

2

G:\LIGHTHOUSE REDEVELOPMENT\PROJECTS\LIMITED PHASE 2 ENVIRONMENTAL ASSESSMENT\2008\AUGUST\FIGURE 2 SITE PLAN

LEGEND

- SOIL BORING LOCATION (SOIL SAMPLE)
- GROUNDWATER SAMPLE LOCATION
- NASSAU COUNTY MONITORING WELL LOCATIONS
- (TW) TEMPORARY WELL LOCATION
- ABANDONED SOIL BORING LOCATION
- WATER-TABLE CONTOUR (1.00 ft INTERVAL)
- INFERRED WATER-TABLE CONTOUR
- INFERRED GROUNDWATER FLOW DIRECTION
- UST LOCATION OF 1,000 - GALLON DIESEL UNDERGROUND STORAGE TANK (UST) FOR EMERGENCY GENERATOR.

SB-12 SOIL BORINGL IDENTIFICATION
51.22 WATER-TABLE ELEVATION (FEET RELATIVE TO MEAN SEA LEVEL)

0 200 400 800
APPROXIMATE SCALE (feet)
1 INCH EQUALS 400 FEET

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NOTES:
1. KLEINFELDER COLLECTED DEPTH TO GROUNDWATER MEASUREMENTS ON AUGUST 21, 2008.
2. SOIL BORINGS AND MONITORING WELL LOCATIONS BASED ON GPS MEASUREMENTS (LATTITUDE/LONGITUDE).
3. TOP OF CASING ELEVATIONS OF TEMPORARY WELLS SURVEYED TO A NASSAU COUNTY GEODETIC BENCH MARK BY CONTROL POINT ASSOCIATES ON AUGUST 20, 2008.

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PROJECT NO.	95906
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FILE NAME:	LIGHTHOUSE

GROUNDWATER ELEVATION CONTOUR MAP

LIGHTHOUSE DEVELOPMENT GROUP, LLC
NASSAU COLISEUM
UNIONDALE, NEW YORK

FIGURE
3

G:\LIGHTHOUSE REDEVELOPMENT\PROJECTS\LIMITED PHASE 2 ENVIRONMENTAL ASSESSMENT\2008\AUGUST\FIGURE 3 GW CONTOUR MAP

LEGEND

CONDUCTIVITY CONTOUR (1.00 mS/m INTERVAL)

SURVEYED SITE LAYOUT AND BURIED INFRASTRUCTURE AS PER TEST HOLE PLAN PREPARED BY BARRETT, BONACCI & VAN. WEELE, P.C. TEST HOLE PLAN

0 100 200 400

APPROXIMATE SCALE (feet)

1 INCH EQUALS 200 FEET

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NOTES:
1. SURVEYED SITE LAYOUT AND BURIED INFRASTRUCTURE AS PER TEST HOLE PLAN PREPARED BY BARRETT, BONACCI & VAN. WEELE, P.C., DATED SEPTEMBER 11, 2007.
2. AERIAL PHOTOGRAGH PROVIDED BY HISTORIC AERIALS.COM.
3. CONDUCTIVITY MEASURED IN MILLISIEMENS PER METER (mS/m)

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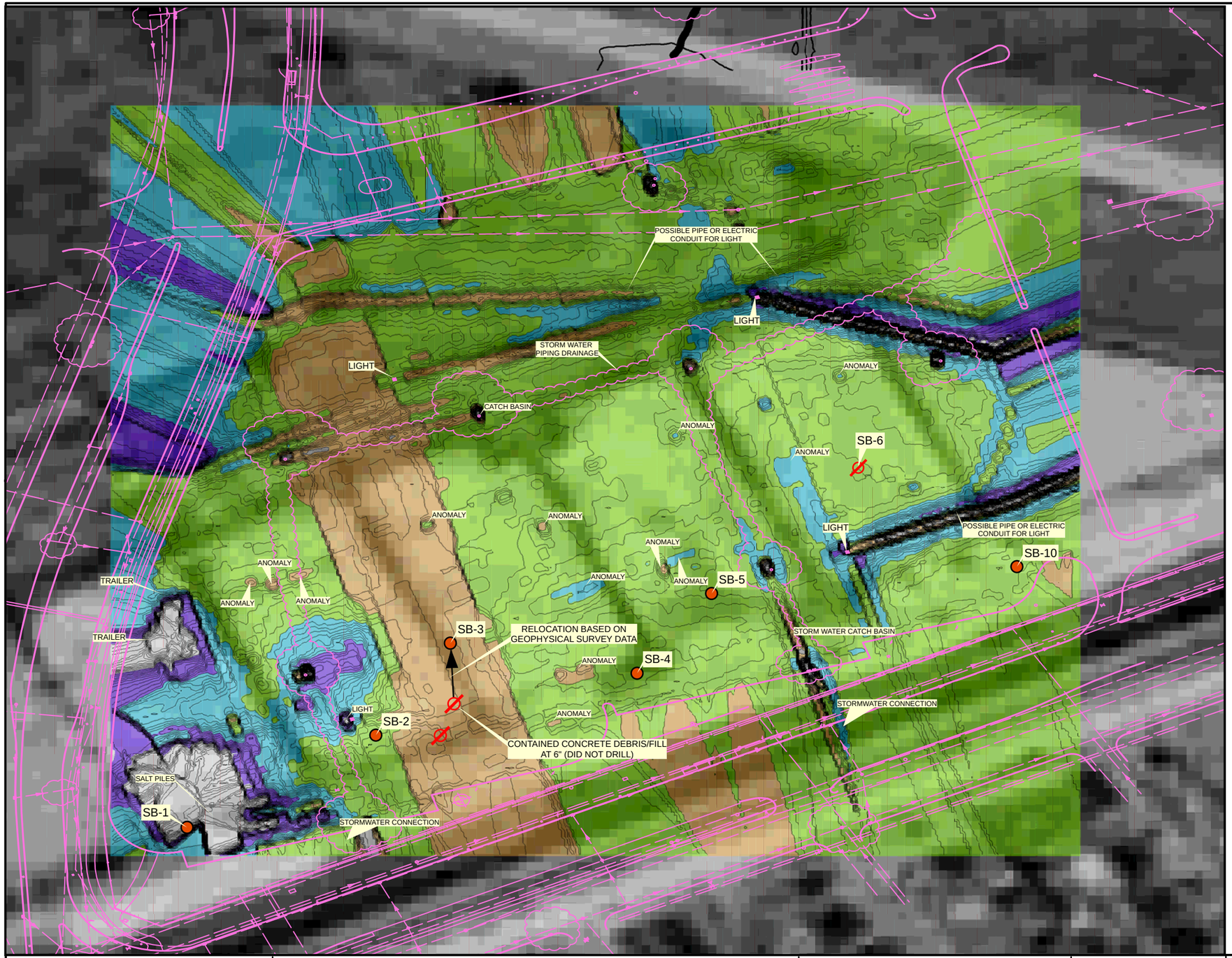
PROJECT NO.	95906
DRAWN:	09/15/2008
DRAWN BY:	J.R
CHECKED BY:	R.S
FILE NAME:	LIGHTHOUSE

EM-31 CONDUCTIVITY SURVEY LOCATION MAP

LIGHTHOUSE DEVELOPMENT GROUP, LLC
NASSAU COLISEUM
UNIONDALE, NEW YORK

FIGURE
4

G:\LIGHTHOUSE REDEVELOPMENT\PROJECTS\LIMITED PHASE 2 ENVIRONMENTAL ASSESSMENT\2008\AUGUST\FIGURE 4 EM31 CONDUCTIVITY SURVEY MAP



LEGEND

- APPROXIMATE SOIL BORING LOCATION
- ABANDONED PRECLEARING SOIL BORING LOCATION
- CONDUCTIVITY CONTOUR mS/m

CONDUCTIVITY INTERVALS - mS/m

- -30.15676308 - -3.828978684
- -3.828978683 - 3.98256174
- 3.982561741 - 10.05820429
- 10.0582043 - 17.86974472
- 17.86974473 - 29.73171351
- 29.73171352 - 43.61889648

0 60 120 240

APPROXIMATE SCALE (feet)

1 INCH EQUALS 125 FEET

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NOTE:
CONDUCTIVITY MEASURED IN MILLISIEMENS PER METER (mS/m)

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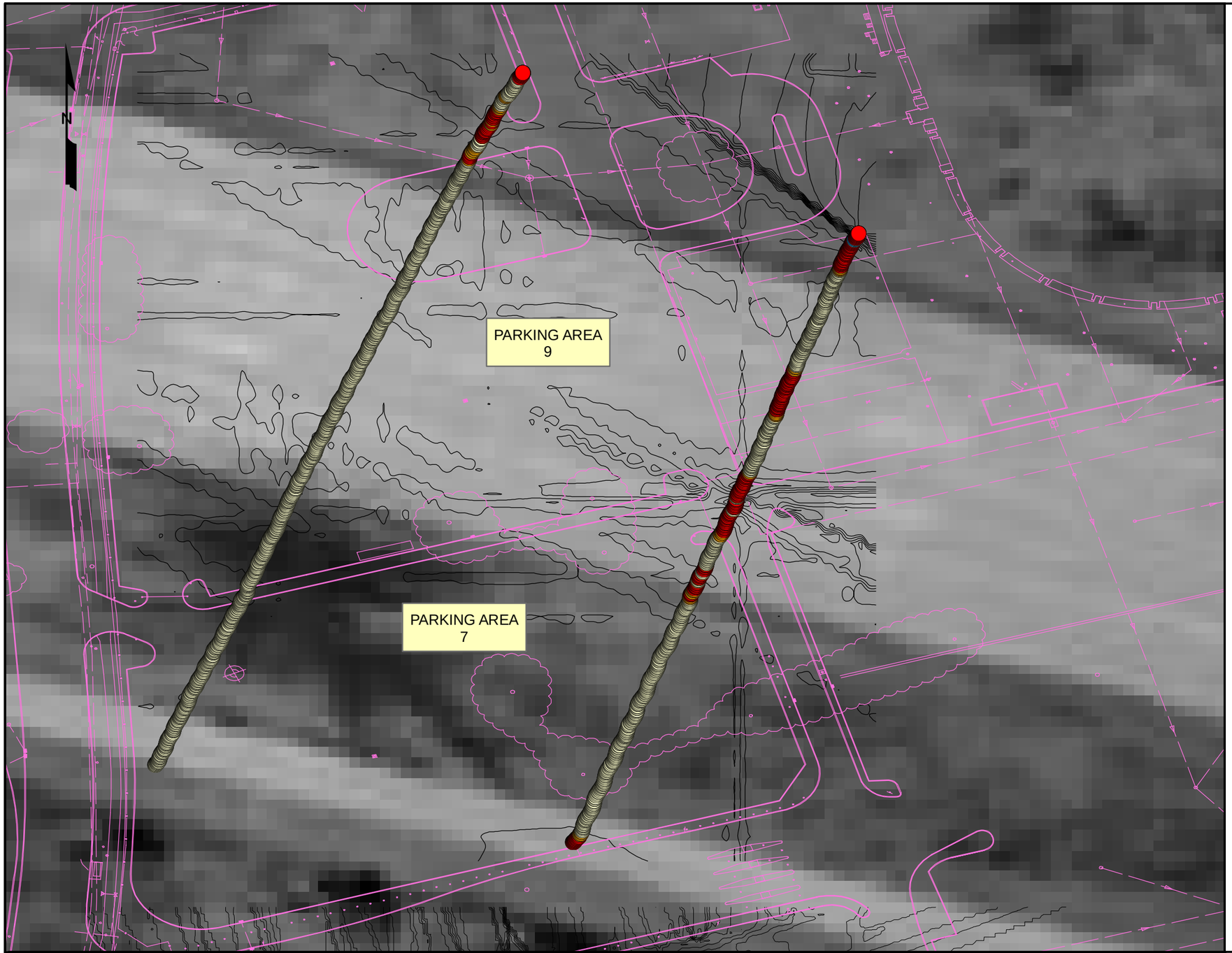
PROJECT NO.	95906
DRAWN:	09/15/2008
DRAWN BY:	J.R
CHECKED BY:	R.S
FILE NAME:	LIGHTHOUSE

EM-31 CONDUCTIVITY SURVEY PARKING AREA 8

LIGHTHOUSE DEVELOPMENT GROUP, LLC
NASSAU COLISEUM
UNIONDALE, NEW YORK

FIGURE
5

G:\LIGHTHOUSE REDEVELOPMENT\PROJECTS\LIMITED PHASE 2 ENVIRONMENTAL ASSESSMENT\2008\AUGUST\FIGURE 5 EM31 CONDUCTIVITY SURVEY PARKING AREA 8



LEGEND

CONDUCTIVITY CONTOUR (1.00 ft INTERVAL)

SURVEYED SITE LAYOUT AND BURIED INFRASTRUCTURE AS PER TEST HOLE PLAN PREPARED BY BARRETT, BONACCI & VAN. WEELE, P.C. TEST HOLE PLAN

0 50 100 200

APPROXIMATE SCALE (feet)

1 INCH EQUALS 100 FEET

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NOTES:
1. SURVEYED SITE LAYOUT AND BURIED INFRASTRUCTURE AS PER TEST HOLE PLAN PREPARED BY BARRETT, BONACCI & VAN. WEELE, P.C., DATED SEPTEMBER 11, 2007.
2. AERIAL PHOTOGRAGH PROVIDED BY HISTORIC AERIALS.COM.

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PROJECT NO.	95906
DRAWN:	09/15/2008
DRAWN BY:	J.R
CHECKED BY:	R.S
FILE NAME:	LIGHTHOUSE

EM-31 CONDUCTIVITY SURVEY
PARKING AREA 7 AND 9

LIGHTHOUSE DEVELOPMENT GROUP, LLC
NASSAU COLISEUM
UNIONDALE, NEW YORK

FIGURE

6

G:\LIGHTHOUSE REDEVELOPMENT\PROJECTS\LIMITED PHASE 2 ENVIRONMENTAL ASSESSMENT\2008\AUGUST\FIGURE 6 EM31 CONDUCTIVITY SURVEY PARKING LOT 7 AND 9

APPENDIX A

Soil Boring Logs

KLEINFELDER
Bright People. Right Solutions.

One Corporate Drive, Suite 201
Bohemia, NY 11716
(631) 218-0612

Soil Boring Log

Boring No. GP-1 (SB-1)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 12, 2008
End Date: August 12, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Chris Migliore
Drill Rig Type: Geoprobe 6610
Drilling Method: Direct Push
Total Hole Depth: 35 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 2 inches
Sampling Method: Geoprobe Macro Core

Surface Elevation: 76.18
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
0		Ground Surface					0
0–1		***SILT*** Brown SILT, some fine to medium sand, little fine gravel, trace clay, some construction debris, dry					1
1–2		***SILT*** Yellowish brown SILT, some fine to coarse sand, little fine to medium gravel, trace clay, damp					2
2–3		***Fine to coarse SAND*** Orange brown fine to coarse SAND, little fine to coarse gravel, trace silt, damp					3
3–4			0-8				4
4–5							5
5–6							6
6–7							7
7–8							8
8–9		***Fine to medium SAND*** Reddish brown fine to medium SAND, little fine gravel, dry	8-10	0.0		24	9
9–10		***Medium to coarse SAND*** Light brown medium to coarse SAND, little fine gravel, dry					10
10–11		***Fine to medium SAND*** Brown fine to medium SAND, some fine gravel, trace coarse sand, moist					11
11–12							12
12–13			10-15	0.0		60	13
13–14							14
14–15							15
15–16		***SAND and Gravel*** Light brown medium to coarse SAND and coarse Gravel, trace fine gravel, moist					16
16–17		***Fine to medium SAND*** Brown fine to medium SAND, trace fine gravel, trace silt, moist					17
17–18		***Fine to medium SAND*** Dark brown fine to medium SAND, some fine gravel, trace silt, moist	15-20	0.0		60	18
18–19		***Fine to medium SAND*** Brown fine to medium SAND, trace silt, trace fine gravel, moist					19
19–20							20

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-1 (SB-1)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 12, 2008
End Date: August 12, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Chris Migliore
Drill Rig Type: Geoprobe 6610
Drilling Method: Direct Push
Total Hole Depth: 35 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 2 inches
Sampling Method: Geoprobe Macro Core

Surface Elevation: 76.18
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
21		***Fine to medium SAND*** Dark brown fine to medium SAND, trace fine gravel, trace silt, moist					21
22		***Fine to medium SAND*** Light brown fine to medium SAND, little coarse gravel, moist	20-25	0.0		40	22
23		***Medium to coarse SAND*** Light brown medium to coarse SAND, some fine gravel, little coarse gravel, trace silt, moist					23
24		***Fine to medium SAND*** Light brown fine to medium SAND, little fine gravel, trace silt, moist					24
25							25
26		***Fine to medium SAND*** Dark brown fine to medium SAND, some silt, trace fine gravel, moist	25-28* (SO)				26
27		***Fine to medium SAND*** Brown fine to medium SAND, little silt, little fine gravel, moist	25-30	0.0		60	27
28							28
29		***Medium to coarse SAND*** Light brown medium to coarse SAND, some fine gravel, trace coarse gravel, some fine sand, moist					29
30							30
31		***Fine to medium SAND*** Dark brown fine to medium SAND, some fine gravel, little coarse gravel, trace silt, moist					31
32		***Medium to coarse SAND*** Light brown medium to coarse SAND, some fine gravel, some coarse gravel, trace fine sand, trace silt, wet, groundwater encountered at 28-30'	30-35* (GW)				32
33		End of Borehole					33
34							34
35							35
36							36
37							37
38							38
39							39
40							40

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-2 (SB-2)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 13, 2008
End Date: August 13, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Chris Migliore
Drill Rig Type: Geoprobe 6610
Drilling Method: Direct Push
Total Hole Depth: 35 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 2 inches
Sampling Method: Geoprobe Macro Core

Surface Elevation: NM
Initial Water Level: 28 fbg
Notes: Soil (SO) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
0		Ground Surface					0
0–5		***Medium to coarse SAND*** Brown medium to coarse SAND, some coarse gravel, little fine gravel, trace silt, dry	0-5	8.2		4	0–5
5–10		***Medium to coarse SAND*** Brown medium to coarse SAND, some fine gravel, little fine sand, trace silt, dry	5-10	0.0		25	5–10
8–9		***Fine to medium SAND*** Light brown fine to medium SAND, trace fine gravel, trace silt					
10–11		***Fine to medium SAND*** Dark brown fine to medium SAND, trace fine gravel, trace silt, moist	10-15	0.2		41	10–15
12–14		***Fine to medium SAND*** Light brown fine to medium SAND, some coarse sand, little fine gravel, trace coarse gravel, some silt, moist					
15–16		***Fine to medium SAND*** Dark brown fine to medium SAND, some silt, moist	15-20* (SO)	9.0		60	15–20
17–19		***Medium to coarse SAND*** Light brown medium to coarse SAND, some fine sand and coarse gravel, trace fine gravel, trace silt					
20							20

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-2 (SB-2)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 13, 2008
End Date: August 13, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Chris Migliore
Drill Rig Type: Geoprobe 6610
Drilling Method: Direct Push
Total Hole Depth: 35 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 2 inches
Sampling Method: Geoprobe Macro Core

Surface Elevation: NM
Initial Water Level: 28 fbg
Notes: Soil (SO) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
21–25		***Fine to medium SAND*** Dark brown fine to medium SAND, little fine gravel, some silt, moist	20-25	3.1		60	21–25
22–25		***Medium to coarse SAND*** Light brown medium to coarse SAND, some fine and coarse gravel, little fine sand, trace silt, moist					22–25
25–30		***Fine to medium SAND*** Brown fine to medium SAND, little coarse sand, trace fine gravel, trace silt, moist	25-30* (SO)	0.9		47	25–30
28–30		***Medium to coarse SAND*** Light brown medium to coarse SAND, trace silt, trace fine gravel, wet, groundwater encountered at 28-30'		0.0			28–30
30–35		***Fine to medium SAND*** Dark brown fine to medium SAND, some silt, little fine gravel, trace coarse gravel	30-35	0.0		60	30–35
32–35		***Medium to coarse SAND*** Light brown medium to coarse SAND, some silt, trace coarse gravel					32–35
35		End of Borehole					35
36–40							36–40

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-3 (SB-3)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 19, 2008
End Date: August 19, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Shawn Miller
Drill Rig Type: CME-85
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: NM
Initial Water Level: 27 fbg
Notes: Soil (SO) sample taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
0		Ground Surface					0
0–8		***Fine to coarse SAND*** Brown fine to coarse SAND, well graded, some gravel, moist	0-8				0–8
8–9		***SAND and Silt*** Dark brown SAND and Silt, trace fine gravel, damp	8-10	0.1	12,6,1,1	10	8–9
10–11		***Medium to coarse SAND*** Brown medium to coarse SAND, little fine gravel, trace silt, damp	10-12	0.0	4,8,8,6	20	10–11
12–13		***Fine to medium SAND*** Brown fine to medium SAND, little coarse sand, little fine gravel, trace coarse gravel, trace silt	12-14	0.0	9,10,9,11	15	12–13
14–15		***Medium to coarse SAND*** Light brown medium to coarse SAND, some fine gravel, trace silt, damp	14-16	0.0	20,6,8,9	13	14–15
16–17		***Fine SAND*** Brown fine SAND, minimal recovery due to obstruction in split spoon	16-18	0.0	15,17,23,27	3	16–17
18–19		***Medium to coarse SAND*** Brown medium to coarse SAND, some coarse gravel, little fine gravel, damp	18-20	0.0	28,24,23,24	14	18–19
20							20

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-3 (SB-3)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 19, 2008
End Date: August 19, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Shawn Miller
Drill Rig Type: CME-85
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: NM
Initial Water Level: 27 fbg
Notes: Soil (SO) sample taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
21		***Medium to coarse SAND*** Light brown medium to coarse SAND, little coarse gravel, little fine gravel, trace silt	20-22	0.3	21,24,23,24	24	21
22							22
23		***Fine SAND*** Light brown fine SAND, some silt, some fine gravel, damp	22-24	0.5	11,14,14,12	7	23
24							24
25		***Medium to coarse SAND*** Light brown medium to coarse SAND, little fine gravel, trace coarse gravel, trace silt	24-26 24-28* (SO)	0.0	27,11,9,9	12	25
26							26
27		***Medium to coarse SAND*** Light brown medium to coarse SAND, little fine gravel, trace coarse gravel, trace silt	26-28	0.1	11,5,4,4	22	27
28		***Medium to coarse SAND*** Light brown medium to coarse SAND, trace silt, wet, groundwater encountered at 27-28'					28
29		***Medium to coarse SAND*** Light brown medium to coarse SAND, little fine gravel, trace silt, coarse gravel, wet	28-30	0.3	5,3,3,5	19	29
30							30
31		***Medium to coarse SAND*** Light brown medium to coarse SAND, some fine sand, some fine gravel, little silt, wet	30-32	0.0	8,7,8,6	23	31
32		End of Borehole					32
33							33
34							34
35							35
36							36
37							37
38							38
39							39
40							40

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-4 (SB-4)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 14, 2008
End Date: August 14, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Chris Migliore
Drill Rig Type: Geoprobe 6610
Drilling Method: Direct Push
Total Hole Depth: 35 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 2 inches
Sampling Method: Geoprobe Macro Core

Surface Elevation: NM
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
0		Ground Surface					0
0–5		***SAND and Silt*** Brown fine to medium SAND and Silt, trace fine gravel, damp	0-5	0.7		3	0–5
5–7		***Fine to medium SAND*** Brown fine to medium SAND, some silt, trace fine gravel, trace coarse gravel, damp ***SAND and Silt*** Dark brown SAND and Silt, trace fine gravel, damp	5-10	0.0		43	5–7
7–10		***Fine to medium SAND*** Brown fine to medium SAND, some coarse sand, trace silt, trace fine gravel, damp					7–10
10–15		***Fine to medium SAND*** Light brown fine to medium SAND, trace silt, some fine gravel	10-15	0.0		NM	10–15
15–17		***Fine to medium SAND*** Dark brown fine to medium SAND, some fine gravel, trace silt, damp	15-20	0.0		39	15–17
17–20		***Fine to medium SAND*** Light brown fine to medium SAND, some coarse gravel, trace fine gravel					17–20

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-4 (SB-4)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 14, 2008
End Date: August 14, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Chris Migliore
Drill Rig Type: Geoprobe 6610
Drilling Method: Direct Push
Total Hole Depth: 35 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 2 inches
Sampling Method: Geoprobe Macro Core

Surface Elevation: NM
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
21		***Fine to medium SAND*** Brown fine to medium SAND, some silt, trace fine gravel					21
22		***Fine to medium SAND*** Light brown fine to medium SAND, trace silt, trace fine gravel	20-25	0.0		37	22
23							23
24							24
25		***Fine to medium SAND*** Brown fine to medium SAND, little coarse sand, some fine gravel, trace silt					25
26			25-28* (GW/SO)				26
27		***Fine to medium SAND*** Dark brown fine to medium SAND, some silt, trace fine gravel, moist		0.0		48	27
28		***Medium to coarse SAND*** Light brown medium to coarse SAND, trace fine gravel, trace silt, wet, groundwater encountered at 28-30'	25-30				28
29							29
30		***Medium to coarse SAND*** Light brown medium to coarse SAND, some fine gravel, trace silt					30
31							31
32				0.0		47	32
33		***Fine to medium SAND*** Light brown fine to medium SAND, trace fine gravel, trace silt, wet	30-35				33
34							34
35		End of Borehole					35
36							36
37							37
38							38
39							39
40							40

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-5 (SB-5)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 13, 2008
End Date: August 13, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Chris Migliore
Drill Rig Type: Geoprobe 6610
Drilling Method: Direct Push
Total Hole Depth: 30 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 2.5 inches
Sampling Method: Geoprobe Macro Core

Surface Elevation: NM
Initial Water Level: 27.5 fbg
Notes: Soil (SO) sample taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
0		Ground Surface					0
0–5		***SAND and Silt*** Dark brown SAND and Silt, some coarse gravel, dry	0-5	7.4		5	0–5
5		***SAND and Silt*** Dark brown fine to medium SAND and Silt, trace fine gravel, damp					5
6–9		***Fine to medium SAND*** Light brown fine to medium SAND, little silt, damp	5-10	1.4		17	6–9
10		***Fine to medium SAND*** Brown fine to medium SAND, some silt, trace fine gravel, damp					10
10–14			10-15	0.0		NM	10–14
15		***Fine to medium SAND*** Light brown fine to medium SAND, some silt, trace fine gravel, moist					15
16		***SAND and Silt*** Dark brown fine to medium SAND and Silt, moist					16
17		***Fine to medium SAND*** Light brown fine to medium SAND, some silt, moist	15-20	1.0		52	17
18–19		***Medium to coarse SAND*** Light brown medium to coarse SAND, some fine gravel, trace coarse gravel, moist					18–19
20							20

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-5 (SB-5)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 13, 2008
End Date: August 13, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Chris Migliore
Drill Rig Type: Geoprobe 6610
Drilling Method: Direct Push
Total Hole Depth: 30 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 2.5 inches
Sampling Method: Geoprobe Macro Core

Surface Elevation: NM
Initial Water Level: 27.5 fbg
Notes: Soil (SO) sample taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
21–25		***SAND and Silt*** Dark brown fine to medium SAND and Silt, some fine gravel, moist					
22–25		***Medium to coarse SAND*** Light brown medium to coarse SAND, some fine gravel, moist	20-25	NM		60	
25–27		***Fine to medium SAND*** Light brown fine to medium SAND, some silt, moist					
27–30		***Medium to coarse SAND*** Light brown medium to coarse SAND, trace gravel, wet, groundwater encountered at 27.5-30'	25-30* (SO)	0.3		50	
30		End of Borehole					

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-7 (SB-7)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 18, 2008
End Date: August 18, 2008
Logged By (Geol.): Mark Gelband
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Jeremy Meyers
Drill Rig Type: CME-55 LT
Drilling Method: Hollow Stem Auger
Total Hole Depth: 35 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: NM
Initial Water Level: 28 fbg
Notes: Soil (SO) sample taken as noted.
Soil boring vacuum cleared to 8 fbg.
Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
0		Ground Surface					0
0–7		***SAND and Gravel*** Dark brown silty SAND and Gravel, moist, loose	0-8				0–7
7–8		***SAND and Gravel*** Brown well graded SAND and Gravel, moist, medium dense to very dense					7–8
8–10		***Fine to medium SAND*** Brown poorly graded fine to medium SAND, trace silt, medium dense, moist	8-10	0.0	17,12,12,14	12	8–10
10–12		***Fine to medium SAND*** Brown poorly graded fine to medium SAND, trace silt, moist, medium dense	10-12	0.0	7,7,8,8	18	10–12
12–14		***Fine to medium SAND*** Light brown poorly graded fine to medium SAND, trace gravel, moist, medium dense	12-14	0.0	8,7,12,11	8	12–14
14–16		***Fine GRAVEL*** Brown poorly graded fine GRAVEL, some brown fine to medium gravel, moist, medium dense	14-16	NM	7,9,9,10	12	14–16
16–18		***Fine to medium SAND*** Brown poorly graded fine to medium SAND, some fine gravel, moist, medium dense	16-18	0.0	17,10,12,5	20	16–18
18–20		***Fine to medium SAND*** Brown poorly graded fine to medium SAND, some fine gravel, moist, medium dense	18-20	0.0	7,10,16,16	11	18–20

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-7 (SB-7)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 18, 2008
End Date: August 18, 2008
Logged By (Geol.): Mark Gelband
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Jeremy Meyers
Drill Rig Type: CME-55 LT
Drilling Method: Hollow Stem Auger
Total Hole Depth: 35 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: NM
Initial Water Level: 28 fbg
Notes: Soil (SO) sample taken as noted.
Soil boring vacuum cleared to 8 fbg.
Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
21		***Fine to coarse SAND*** Brown poorly graded fine to coarse SAND, some fine gravel, moist, dense	20-22	0.0	8,12,20,14	18	21
22							22
23		***Fine to coarse SAND*** Brown well graded fine to coarse SAND, some fine gravel, moist, dense	22-24	0.0	14,17,18,16	22	23
24							24
25		***Fine to coarse SAND*** Brown well graded fine to coarse SAND, some fine gravel, moist, medium dense	24-26 24-28* (SO)	0.0	7,8,10,12	12	25
26							26
27		***Fine to coarse SAND*** Orange brown well graded fine to coarse SAND, little gravel, moist, medium dense	26-28	0.0	12,10,9,9	10	27
28							28
29		***Fine to medium SAND*** Brown poorly graded fine to medium SAND, trace gravel, wet, medium dense, groundwater encounrtered 28-30'	28-30	0.0	4,8,8,9	13	29
30							30
31		***Fine to medium SAND*** Brown poorly graded fine to medium SAND, trace silt, wet, medium dense	30-32	0.0	2,6,6,8	24	31
32							32
33		***Fine to medium SAND*** Brown poorly graded fine to medium SAND, little gravel, wet, medium dense	32-35	0.0	5,7,7,9	24	33
34							34
35		End of Borehole					35
36							36
37							37
38							38
39							39
40							40

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride
Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-8 (SB-8)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 20, 2008
End Date: August 20, 2008
Logged By (Geol.): Francis Winslow
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Jeremy Meyers
Drill Rig Type: CME-55 LT
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: NM
Initial Water Level: 28.5 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
0		Ground Surface					0
0–8		***Medium to coarse SAND*** Tan medium to coarse SAND, well graded, with fine gravel, dry	0-8				0–8
8–10		***Fine to coarse SAND*** Tan fine to coarse SAND, trace silt, trace fine gravel, damp	8-10	1.2	3,8,11,13	19.5	8–10
10–12		***Fine to coarse SAND*** Tan/red fine to coarse SAND, trace fine gravel, damp	10-12	1.2	8,15,12,10	22	10–12
12–14		***Fine to coarse SAND*** Tan/red fine to coarse SAND, trace fine gravel, damp	12-14	2.4	12,9,11,13	18	12–14
14–16		***Fine to coarse SAND*** Tan/orange/brown fine to coarse SAND, 5% silt, 5% fine to medium gravel, damp	14-16	2.1	7,12,12,10	20	14–16
16–18		***Fine to coarse SAND*** Tan fine to coarse SAND, 5% brown silt, trace fine to medium gravel, damp	16-18	2.1	12,7,7,6	24	16–18
18–20		***Fine to coarse SAND*** Brown/tan fine to coarse SAND, 5% silt, 15% fine to medium gravel, damp	18-20	1.8	12,20,18,13	19	18–20

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-8 (SB-8)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 20, 2008
End Date: August 20, 2008
Logged By (Geol.): Francis Winslow
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Jeremy Meyers
Drill Rig Type: CME-55 LT
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: NM
Initial Water Level: 28.5 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
21		***Fine to coarse SAND*** White/tan fine to coarse SAND, 5% silt, 5% fine to medium gravel, damp	20-22	2.1	13,21,19,11	21	21
22							22
23		***Fine to coarse SAND*** White/tan fine to coarse SAND, 15% silt, trace fine to coarse gravel, damp	22-24* SO	2.4	21,17,16,14	18.5	23
24							24
25		***Fine to coarse SAND*** Tan fine to coarse SAND, 5% fine gravel, trace silt, damp	24-26	1.2	2,7,13,13	18	25
26							26
27		***Fine to coarse SAND*** Tan/white fine to coarse SAND, 5% fine gravel, trace silt, damp	26-28 26-30* (SO)	2.7	9,9,6,10	12	27
28				1.2			28
29		***Fine to coarse SAND*** Tan/orange fine to coarse SAND, trace silt, damp	28-30* (GW)	1.2	4,7,10,10	21	29
30		***Fine to coarse SAND*** Tan fine to coarse SAND, trace fine to medium gravel, saturated, groundwater encountered at 28.5-30'					30
31		***Fine to coarse SAND*** Orange brown fine to coarse SAND, 5% silt, trace fine gravel, saturated	30-32	2.4	6,12,13,12	24	31
32		End of Borehole					32
33							33
34							34
35							35
36							36
37							37
38							38
39							39
40							40

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-9 (SB-9)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 19, 2008
End Date: August 19, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Shawn Miller
Drill Rig Type: CME-85
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: 80.19
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
0		Ground Surface					0
0–8		***SAND and Gravel*** Brown silty SAND and Gravel, moist					
0–8		***SAND and Gravel*** Light brown SAND and Gravel, poorly graded, moist to wet, medium dense to dense	0-8				
8–10		***Fine to medium SAND*** Brown fine to medium SAND, little silt, trace fine gravel, damp	8-10	0.0	22,17,19,21	24	8–10
10–11		***Fine to medium SAND*** Brown fine to medium SAND, some silt, trace fine gravel, damp	10-12	2.8	16,15,18,14	24	10–11
11–12		***Fine to medium SAND*** Light brown fine to medium SAND, trace silt, trace fine gravel, damp					11–12
12–14		***Fine to medium SAND*** Light brown fine to medium SAND, little silt, trace fine gravel, damp	12-14	0.0	14,13,11,12	24	12–14
14–16		***Medium to coarse SAND*** Light brown medium to coarse SAND, some fine gravel, some coarse gravel, trace silt	14-16	0.0	11,9,9,10	9	14–16
16–18		***Medium to coarse SAND*** Light brown medium to coarse SAND, some fine gravel, some coarse gravel, little silt, damp	16-18	0.0	6,7,21,21	24	16–18
18–20		***Medium to coarse SAND*** Light brown medium to coarse SAND, some fine gravel, some coarse gravel, little silt, damp	18-20	0.0	22,16,14,17	19	18–20
20							20

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-9 (SB-9)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 19, 2008
End Date: August 19, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Shawn Miller
Drill Rig Type: CME-85
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: 80.19
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
21		***Medium to coarse SAND*** Light brown medium to coarse SAND, some fine gravel, some coarse gravel, little silt, damp	20-22	0.0	16,19,19,22	24	21
22		***Fine to medium SAND*** Light brown fine to medium SAND, little fine gravel, trace silt, damp					22
23		***Fine to medium SAND*** Light brown fine to medium SAND, some coarse gravel, trace silt, damp	22-24	0.0	15,17,14,15	19	23
24		***Fine SAND*** Light brown fine SAND, trace silt, damp	24-26				24
25				0.0	11,12,9,11	16	25
26		***Fine SAND*** Brown fine SAND, some silt, trace fine gravel, moist	24-28* (SO)				26
27		***Fine SAND*** Brown fine SAND, some silt, little fine gravel, moist	26-28* (GW)	0.0	8,9,7,5	24	27
28							28
29		***Fine SAND*** Brown fine SAND, some silt, trace fine gravel, wet, groundwater encountered 28-30'	28-30	0.0	4,5,4,3	18	29
30							30
31		***Fine SAND*** Brown fine SAND, some silt, trace fine gravel, wet	30-32	0.0	4,3,3,5	24	31
32		***Medium to coarse SAND*** Brown medium to coarse SAND, trace silt, trace fine gravel, wet					32
33		End of Borehole					33
34							34
35							35
36							36
37							37
38							38
39							39
40							40

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-10 (SB-10)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 19, 2008
End Date: August 19, 2008
Logged By (Geol.): Francis Winslow
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Jeremy Meyers
Drill Rig Type: CME-55 LT
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: NM
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
0		Ground Surface					0
0–8		***Fine to medium SAND*** Brown fine to medium SAND, well graded, trace gravel, moist	0-8				0–8
8		***SILT*** Brown SILT, 40% fine to coarse sand, asphalt, dry	8-10	0.7	6,8,7,9	20	8
9		***Fine to coarse SAND*** Reddish orange/brown fine to coarse SAND, trace silt, damp		0.0			9
10		***Fine to coarse SAND*** Reddish orange/brown fine to coarse SAND, trace fine gravel, damp	10-12	0.1	7,8,13,7	21.5	10
11		***Fine to coarse SAND*** Reddish orange/brown fine to coarse SAND, trace brown silt, trace fine gravel, damp	12-14	0.5	6,8,7,5	22	11
12		***Fine to coarse SAND*** Reddish orange/brown fine to coarse SAND, trace silt, trace fine to coarse gravel, damp	14-16	0.5	8,8,7,9	17.5	12
13		***Fine to coarse SAND*** Tan/white fine to coarse SAND, 5% fine to medium gravel, trace silt, damp	16-18	0.3	11,12,13,15	19	13
14		***Fine to coarse SAND*** White fine to coarse SAND, 5% fine to medium gravel, damp	18-20	0.1	7,6,5,8	17	14
15							15
16							16
17							17
18							18
19							19
20							20

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-10 (SB-10)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 19, 2008
End Date: August 19, 2008
Logged By (Geol.): Francis Winslow
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Jeremy Meyers
Drill Rig Type: CME-55 LT
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: NM
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
21			20-22	1.3	9,7,7,5	14.5	21
22		***Fine to coarse SAND*** Tan/white fine to coarse SAND, 5% fine to medium gravel, damp					22
23			22-24	0.7	9,7,8,7	17	23
24		***Fine to coarse SAND*** Tan/white fine to coarse SAND, trace fine gravel, damp					24
25			24-26* (SO)	0.1	6,5,5,5	18	25
26		***Fine to coarse SAND*** Tan fine to coarse SAND, trace fine to medium gravel, damp		0.1			26
27			26-28* (GW/SO)	0.0	11,14,15,16	21.5	27
28		***Fine to coarse SAND*** Tan fine to coarse SAND, trace fine to medium gravel, saturated, groundwater encountered at 28'					28
29		***Fine to coarse SAND*** Tan/light brown fine to coarse SAND, trace silt, 5% fine to medium gravel, saturated	28-30	0.3	9,7,8,11	20	29
30		***Fine to coarse SAND*** Tan/light brown fine to coarse SAND, trace silt, 5% fine to medium gravel, saturated					30
31			30-32	0.7	9,8,9,10	24	31
32		End of Borehole					32
33							33
34							34
35							35
36							36
37							37
38							38
39							39
40							40

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-11 (SB-11)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 21, 2008
End Date: August 21, 2008
Logged By (Geol.): Francis Winslow
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Jeremy Meyers
Drill Rig Type: CME-55 LT
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: NM
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
0		Ground Surface					0
0–2		***Fine to coarse SAND*** Brown fine to coarse SAND, 10% fine to coarse gravel, trace silt, damp					0–2
2–5		***Fine to medium SAND*** Light brown fine to medium SAND, 5% coarse sand, 5% fine gravel, trace silt, damp	0-8				2–5
5–7		***Fine to coarse SAND*** Orange brown fine to coarse SAND, well graded, little fine gravel, moist, no odor					5–7
7–8		***Fine to coarse SAND*** Orange brown fine to coarse SAND, well graded, trace gravel, moist, no odor					7–8
8–10		***Fine to coarse SAND*** Tan fine to coarse SAND, 5% silt, trace 10% fine gravel, damp	8-10	1.3	4,3,4,5	15	8–10
10–12		***Fine to coarse SAND*** Tan fine to coarse SAND, 15% fine gravel, damp	10-12	1.8	3,2,2,3	13	10–12
12–14		***Fine to coarse SAND*** Tan fine to coarse SAND, 5% fine to medium gravel, trace silt, damp	12-14	1.8	1,1,1,2	13	12–14
14–15		***Fine to coarse SAND*** Tan fine to coarse SAND, 20% fine to coarse gravel, 5% silt, damp	14-16	0.0 0.0	2,1,1,1	11.5	14–15
15–16		***SILT*** Tan SILT, 15% fine to medium sand, clay nodule, some black staining, damp					15–16
16–18		***Fine to coarse SAND*** Tan fine to coarse SAND, 20% fine to medium gravel, damp	16-18	0.0	1,3,7,9	13	16–18
18–20		***Fine to coarse SAND*** Tan/white fine to coarse SAND, 30% fine to coarse gravel, 1" sandy silt layer, damp	18-20	0.0	7,11,13,12	17	18–20

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-11 (SB-11)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 21, 2008
End Date: August 21, 2008
Logged By (Geol.): Francis Winslow
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Jeremy Meyers
Drill Rig Type: CME-55 LT
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: NM
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
21		***Fine to coarse SAND*** Tan fine to coarse SAND, trace coarse sand, 0.5" silt layer, damp	20-22	1.3	10,15,17,21	15.5	21
22							22
23		***Fine to coarse SAND*** Tan fine to coarse SAND, 0.5" silt layer, damp	22-24	0.0	NM	19.25	23
24							24
25		***Fine to coarse SAND*** Tan fine to coarse SAND, 5% fine to medium gravel, damp	24-26 24-28* (SO)	0.9	9,11,14,16	18	25
26							26
27		***Fine to coarse SAND*** Tan/yellow fine to coarse SAND, trace fine to medium gravel, trace silt, moist	26-28	1.8	8,4,9,11	19	27
28							28
29		***Fine to coarse SAND*** Tan/yellow fine to coarse SAND, trace fine to medium gravel, silt, clay, saturated, groundwater encountered at 28-30'	28-30* (GW)	2.2	10,15,14,19	24	29
30							30
31		***Fine to coarse SAND*** Tan fine to coarse SAND, trace fine gravel, trace silt, saturated	30-32	0.9	7,8,7,10	24	31
32							32
33		End of Borehole					33
34							34
35							35
36							36
37							37
38							38
39							39
40							40

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-12 (SB-12)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 17, 2008
End Date: August 17, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Shawn Miller
Drill Rig Type: CME-85
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: 78.47
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
0		Ground Surface					0
0–8		***SILT*** Dark brown SILT, light brown and orange fine to medium sand, coarse sand, fine to coarse gravel, lower portion damp, upper portion dry	0-8				0–8
8–9		***SAND and Silt*** Dark brown SAND and Silt, damp	8-10	0.0	5,5,4,6	24	8–9
9–10		***Fine to medium SAND*** Brown fine to medium SAND, little silt, damp					9–10
10–11		***Fine to medium SAND*** Light brown fine to medium SAND, trace fine gravel, trace silt, damp	10-12	0.0	17,5,5,9	24	10–11
11–12		***Fine to medium SAND*** Light brown fine to medium SAND, little fine gravel, trace silt, damp					11–12
12–13		***Fine to medium SAND*** Light brown fine to medium SAND, trace silt, some fine gravel	12-14	0.0	13,9,11,11	24	12–13
13–14							13–14
14–15		***SAND and Gravel*** Light brown medium to coarse SAND and fine Gravel, some coarse gravel, damp	14-16	0.0	33,18,13,15	17	14–15
15–16							15–16
16–17		***Fine to medium SAND*** Light brown fine to medium SAND, some fine gravel, trace silt, damp	16-18	0.0	21,20,23,18	24	16–17
17–18							17–18
18–19		***Fine to medium SAND*** Light brown fine to medium SAND, little silt, some fine gravel, damp	18-20	0.0	14,10,10,10	19	18–19
19–20							19–20
20							20

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-12 (SB-12)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 17, 2008
End Date: August 17, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Shawn Miller
Drill Rig Type: CME-85
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: 78.47
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
21		***Fine to medium SAND*** Light brown fine to medium SAND, trace silt, some fine gravel, trace coarse gravel	20-22	0.0	17,17,19,24	24	21
22		***Medium to coarse SAND*** Light brown medium to coarse SAND, some fine gravel, trace silt, damp					22
23		***Fine to medium SAND*** Brown fine to medium SAND, trace silt, trace fine gravel, damp	22-24	0.0	14,9,8,10	14	23
24							24
25		***Fine to medium SAND*** Light brown fine to medium SAND, trace fine gravel, trace silt	24-26 24-28* (SO)	0.0	6,8,7,11	18	25
26							26
27		***Medium to coarse SAND*** Brown medium to coarse SAND, some fine gravel, trace silt, moist, groundwater encountered at 28'	26-28* (GW)	0.0	7,5,7,5	21	27
28							28
29		***Medium to coarse SAND*** Light brown medium to coarse SAND, little silt, trace fine gravel, trace coarse gravel, wet	28-30	0.0	4,3,2,2	18	29
30							30
31		***Medium to coarse SAND*** Light brown medium to coarse SAND, little silt, trace fine gravel, trace coarse gravel, wet	30-32	0.0	6,5,4,5	24	31
32		End of Borehole					32
33							33
34							34
35							35
36							36
37							37
38							38
39							39
40							40

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-13 (SB-13)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: July 30, 2008
End Date: July 30, 2008
Logged By (Geol.): Jaclyn Kish
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Chris Migliore
Drill Rig Type: Geoprobe 6610
Drilling Method: Direct Push
Total Hole Depth: 30 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 2 inches
Sampling Method: Geoprobe Macro Core

Surface Elevation: NM
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 250 500	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
0		Ground Surface					0
0–5		***Fine to coarse SAND*** Brown fine to coarse SAND, well graded, trace gravel, moist	0-8				0–5
5–7		***Fine to coarse SAND*** Brown fine to coarse SAND, poorly graded, little gravel, moist					5–7
7–8		***Fine to coarse SAND*** Orange brown fine to coarse SAND, poorly graded, trace gravel, trace silt, moist		16.7			7–8
8–9		***Fine to coarse SAND*** Orange brown fine to coarse SAND, trace fine gravel, dry	8-10	3.1		54	8–9
9–10		***SILT and Clay*** Light brown/grey SILT and Clay, some fine sand, trace fine gravel, dry		19.2			9–10
10–12		***Fine to coarse SAND*** Orange brown fine to coarse SAND, some fine gravel, dry	10-15	12.0		60	10–12
12–13		***Fine to coarse SAND*** Brown fine to coarse SAND, some fine gravel, trace black unknown material, dry		6.3			12–13
13–15		***Fine to coarse SAND*** Light brown/white fine to coarse SAND, some fine gravel, trace coarse gravel, dry					13–15
15–17		***Fine to medium SAND*** Brown/light brown fine to medium SAND, some coarse sand, some fine gravel, trace silt, dry (very compact)	15-20	3.1		60	15–17
17–20		***Fine SAND*** Light brown/white fine SAND, some medium to coarse sand, some fine gravel, dry		1.9			17–20

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-13 (SB-13)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: July 30, 2008
End Date: July 30, 2008
Logged By (Geol.): Jaclyn Kish
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Chris Migliore
Drill Rig Type: Geoprobe 6610
Drilling Method: Direct Push
Total Hole Depth: 30 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 2 inches
Sampling Method: Geoprobe Macro Core

Surface Elevation: NM
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 250 500	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
21		***Fine SAND*** Dark brown/brown fine SAND, some medium to coarse sand, some silt, some fine to coarse gravel, dry		417			21
22							22
23		***Fine SAND*** Light brown fine SAND, some medium to coarse sand, some fine to coarse gravel, dry	20-25* (SO)	62.5		60	23
24							24
25		***Fine SAND*** Dark brown fine SAND, some mediun to coarse sand, some fine gravel, wet, unknown staining					25
26			25-30	3.7			26
27						NM	27
28		***Fine SAND*** Brown fine SAND, some medium to coarse sand, some fine gravel, wet, groundwater encountered at 28-30'	28-30* (GW)				28
29				0.3			29
30		End of Borehole					30
31							31
32							32
33							33
34							34
35							35
36							36
37							37
38							38
39							39
40							40

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-14 (SB-14)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 19, 2008
End Date: August 19, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Shawn Miller
Drill Rig Type: CME-85
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: NM
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
0		Ground Surface					0
0–8		***Fine to medium SAND*** Brown fine to medium SAND, well graded, with fine gravel, dry	0-8				0–8
8		***SAND and Silt*** Brown fine SAND and Silt, damp	8-10	0.0	17,14,13,16	13	8
9–10		***Fine to medium SAND*** Brown fine to medium SAND, some silt, trace fine gravel, damp					9–10
10–12		***Fine to medium SAND*** Light brown fine to medium SAND, some silt, trace fine gravel, damp	10-12	0.9	12,14,18,20	18	10–12
12–14		***Fine to medium SAND*** Light brown fine to medium SAND, trace silt, trace fine gravel, damp	12-14	0.3	14,14,15,18	18	12–14
14–16		***Medium to coarse SAND*** Light brown medium to coarse SAND, little fine gravel, trace silt, damp	14-16	0.9	22,12,14,14	24	14–16
16		***SAND and Gravel*** Brown medium to coarse SAND and fine Gravel, trace fractured rock	16-18	0.3	20,20,18,24	24	16
17–18		***SAND and Gravel*** Brown medium to coarse SAND and fine Gravel, little coarse gravel, damp					17–18
18–20		***Fine to medium SAND*** Brown fine to medium SAND, some coarsed sand, some silt, some fine gravel, damp	18-20	0.0	24,21,18,13	17	18–20
20							20

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-14 (SB-14)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 19, 2008
End Date: August 19, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Shawn Miller
Drill Rig Type: CME-85
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: NM
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
21		***Fine to medium SAND*** Brown fine to medium SAND, some coarse sand, some silt, some fine gravel, trace coarse gravel, trace silt, damp	20-22	0.0	18,19,21,20	20	21
22		***Fine to medium SAND*** Light brown fine to medium SAND, trace fine gravel, trace silt, damp	22-24	0.0	16,18,17,15	19	22
23							23
24		***Fine to medium SAND*** Light brown fine to medium SAND, some fine gravel, trace silt, damp	24-26				24
25			24-28* (SO)	0.0	13,15,13,16	15	25
26		***Fine to medium SAND*** Brown fine to medium SAND, trace fine gravel, trace silt, damp, groundwater encountered at 28'					26
27			26-28* (GW)	0.0	13,15,13,16	22	27
28		***Fine to medium SAND*** Brown fine to medium SAND, trace fine gravel, trace silt, wet					28
29			28-30	0.0	6,12,15,14	24	29
30		***Medium to coarse SAND*** Brown medium to coarse SAND, some silt, some fine gravel, wet					30
31		***Fine to medium SAND*** Brown fine to medium SAND, little coarse sand, trace fine gravel, some silt, wet	30-32	0.0	10,8,11,9	23	31
32		End of Borehole					32
33							33
34							34
35							35
36							36
37							37
38							38
39							39
40							40

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-15 (SB-15)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: July 29, 2008
End Date: August 20, 2008
Logged By (Geol.): Jaclyn Kish/Francis Winslow
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Jeremy Meyers
Drill Rig Type: CME-55 LT
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: NM
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
0		Ground Surface					0
0–7		***SAND and Silt and Gravel*** Yellowish brown SAND and Silt and Gravel, poorly graded, moist	0-8				0–7
7–8		***SAND and Gravel*** Brown SAND and Gravel, well graded, moist, medium dense to very dense					7–8
8–10		***Fine to coarse SAND*** Tan/white fine to coarse SAND, 1" silty sand layer, 5% fine to medium gravel, damp	8-10	1.2	6,6,9,15	24	8–10
10–12		***Fine to coarse SAND*** Tan fine to coarse SAND, 1" silty sand layer, 30% fine to coarse gravel, dry	10-12	3.0	14,29,23,25	23	10–12
12–14		***Fine to coarse SAND*** Tan fine to coarse SAND, 30% fine to coarse gravel, trace silt, damp	12-14	2.4	19,19,21,18	18	12–14
14–16		***Fine to coarse SAND*** Light brown/tan fine to coarse SAND, 15% fine to coarse gravel, 1" silty sand layer, damp	14-16	2.4	16,19,20,18	22	14–16
16–17		***SILT*** Light brown SILT, 30% fine to coarse gravel, damp	16-18	3.0	15,17,19,15	22	16–17
17–18		***Fine to coarse SAND*** Tan fine to coarse SAND, 10% fine to coarse gravel, trace silt, damp		1.5			17–18
18–20		***Fine to coarse SAND*** Tan/yellow fine to coarse SAND, 10% silt, trace fine gravel, damp	18-20* SO	2.4	16,17,18,17	17.5	18–20

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-15 (SB-15)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: July 29, 2008
End Date: August 20, 2008
Logged By (Geol.): Jaclyn Kish/Francis Winslow
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Jeremy Meyers
Drill Rig Type: CME-55 LT
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: NM
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
21		***SILT and Sand*** Tan SILT and fine to coarse Sand, trace coarse gravel, damp	20-22	4.9, 2.4	13,13,18,11	24	21
22		***Fine to coarse SAND*** Reddish orange/brown fine to coarse SAND, 5% fien gravel, damp					22
23		***Fine to coarse SAND*** Tan fine to coarse SAND, trace fine gravel, 0.5" silty sand layer, damp	22-24* SO	2.7	16,11,12,11	21	23
24							24
25		***Fine to coarse SAND*** Tan fine to coarse SAND, trace fine gravel, moist	24-26* SO	1.5	18,11,11,18	19	25
26							26
27		***Fine to coarse SAND*** Tan fine to coarse SAND, trace fine to medium gravel, trace silt, saturated, groundwater encountered at 28'	26-28* GW	1.2	10,8,9,8	20	27
28							28
29		***Fine to coarse SAND*** Tan fine to coarse SAND, trace silt, saturated	28-30	3.7	7,9,6,7	24	29
30							30
31		***Fine to coarse SAND*** Tan fine to coarse SAND, 5% gravel, saturated	30-32	2.1	9,9,10,16	24	31
32		End of Borehole					32
33							33
34							34
35							35
36							36
37							37
38							38
39							39
40							40

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride
Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-16 (SB-16)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 18, 2008
End Date: August 18, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Shawn Miller
Drill Rig Type: CME-85
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: 81.89
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
0		Ground Surface					0
0		***SAND and Silt*** Sand with silt and gravel, poorly graded, brown to yellow brown, moist	0-8				0
7		***SAND and Gravel*** Orange brown silty SAND and Gravel, moist, dense					7
8		***Medium to coarse SAND*** Dark brown medium to coarse SAND, little silt, some fine gravel, damp	8-10	0.0	31,13,9,11	24	8
10		***Fine to medium SAND*** Brown fine to medium SAND, some coarse sand, little fine gravel, trace silt, damp	10-12	1.8	12,14,16,15	24	10
12		***Fine to medium SAND*** Dark brown fine to medium SAND, some coarse gravel, little fine gravel, some silt, damp					12
13		***Fine to medium SAND*** Brown fine to medium SAND, little silt, little fine gravel, trace coarse gravel, damp	12-14	0.0	6,8,9,11	16	13
14		***Fine to medium SAND*** Light brown fine to medium SAND, trace fine gravel, trace silt, damp	14-16	0.0	12,11,12,13	21	14
16		***Fine to medium SAND*** Light brown fine to medium SAND, some coarse sand, little fine gravel, trace silt, damp					16
17		***Fine to medium SAND*** Light brown fine to medium SAND, little fine gravel, trace silt, wet	16-18	0.0	8,8,9,6	17	17
18		***SAND and Gravel*** Light brown medium to coarse SAND and fine Gravel, trace silt, damp	18-20	0.0	13,13,15,19	13	18
20							20

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-16 (SB-16)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 18, 2008
End Date: August 18, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Shawn Miller
Drill Rig Type: CME-85
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: 81.89
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
21		***Medium to coarse SAND*** Light brown medium to coarse SAND, some fine gravel, trace coarse gravel, damp	20-22	0.0	11,11,11,9	19	21
22		***Medium to coarse SAND*** Light brown medium to coarse SAND, some fine gravel, trace coarse gravel, damp					22
23		***Fine to medium SAND*** Dark brown fine to medium SAND, little silt, trace fine gravel, damp	22-24	0.0	15,9,8,9	20	23
24		***Medium to coarse SAND*** Light brown medium to coarse SAND, trace silt, trace fine gravel, damp	24-26	0.0	16,18,18,21	19	24
25			24-28* (SO)				25
26		***Medium to coarse SAND*** Light brown medium to coarse SAND, some fine gravel, trace silt					26
27		***Fine to medium SAND*** Brown fine to medium SAND, trace fine gravel, trace silt, damp	26-28* (GW)	0.3	7,9,9,8	20	27
28							28
29		***Fine to medium SAND*** Brown fine to medium SAND, little fine gravel, trace silt, damp, groundwater encountered at 28'	28-30	0.3	6,7,9,10	21	29
30		***Fine to medium SAND*** Brown fine to medium SAND, little fine gravel, little silt, wet					30
31		***Fine to medium SAND*** Brown fine to medium SAND, little fine gravel, little silt, wet	30-32	0.3	4,4,3,5	24	31
32		End of Borehole					32
33							33
34							34
35							35
36							36
37							37
38							38
39							39
40							40

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-17 (SB-17)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 17, 2008
End Date: August 17, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Shawn Miller
Drill Rig Type: CME-85
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: 81.41
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
0		Ground Surface					0
0–5		***SAND and Silt*** Light brown SAND and Silt, well graded, gravel, moist	0-8				0–5
5–8		***Medium to coarse SAND*** Brown medium to coarse SAND, poorly graded, moist, medium dense					5–8
7–8		***SAND and Gravel*** Orange brown SAND and Gravel, poorly graded, moist, dense					7–8
8–10		***Fine to medium SAND*** Dark brown fine to medium SAND, trace fine gravel, trace clay, some silt	8-10	0.0	20,8,9,7	16	8–10
10–12		***Fine to medium SAND*** Brown fine to medium SAND, little coarse sand, some fine gravel, trace coarse gravel, damp	10-12	0.0	12,15,15,17	21	10–12
12–13		***SAND and Silt*** Brown fine SAND and Silt, little fine gravel	12-14	0.0	11,13,14,16	24	12–13
13–14		***Fine to medium SAND*** Light brown fine to medium SAND, some silt, trace fine and coarse gravel, moist					13–14
14–16		***Fine to medium SAND*** Brown fine to medium SAND, some silt, some fine gravel, trace coarse gravel, moist	14-16	0.0	22,14,14,17	14	14–16
16–18		***Medium to coarse SAND*** Light brown medium to coarse SAND, little fine gravel, trace silt, damp	16-18	0.0	18,20,19,20	24	16–18
18–20		***Fine to medium SAND*** Brown fine to medium SAND, some silt, little fine gravel, trace coarse gravel, moist	18-20	0.0	17,17,16,21	24	18–20

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-17 (SB-17)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 17, 2008
End Date: August 17, 2008
Logged By (Geol.): Sandra Malek
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Shawn Miller
Drill Rig Type: CME-85
Drilling Method: Hollow Stem Auger
Total Hole Depth: 32 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: 81.41
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 8 fbg.

Asphalt present 0 to 0.5 feet, typical.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
21		***Fine to medium SAND*** Light brown fine to medium SAND, some coarse sand, little coarse gravel, little silt, moist	20-22	0.0	19,21,22,20	22	21
22							22
23		***Fine to medium SAND*** Brown fine to medium SAND, some coarse sand, little fine gravel, trace silt, moist	22-24	0.1	11,13,15,14	24	23
24							24
25		***SAND and Silt*** Brown fine to medium SAND and Silt, trace fine gravel, moist	24-26 24-28* (SO)	0.0	8,6,7,7	24	25
26							26
27		***Fine to medium SAND*** Brown fine to medium SAND, some silt, some fine gravel, moist	26-28* (GW)	0.0	6,7,8,9	24	27
28		***Fine to medium SAND*** Brown fine to medium SAND, some silt, wet, groundwater encountered at 28'	28-30	0.0	5,6,5,7	24	28
29		***Fine to medium SAND*** Brown fine to medium SAND, trace fine gravel, trace silt, wet					29
30							30
31		***Medium to coarse SAND*** Brown medium to coarse SAND, some fine sand, trace fine gravel, trace silt, wet	30-32	0.0	5,5,4,6	24	31
32		End of Borehole					32
33							33
34							34
35							35
36							36
37							37
38							38
39							39
40							40

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-18 (SB-18)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 15, 2008
End Date: August 15, 2008
Logged By (Geol.): Francis Winslow
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Chris Migliore
Drill Rig Type: Geoprobe 6610
Drilling Method: Direct Push
Total Hole Depth: 35 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 2 inches
Sampling Method: Geoprobe Macro Core

Surface Elevation: NM
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 5 fbg.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
0		Ground Surface					0
0–4		***SILT*** Dark brown SILT, orange fine to coarse sand, fine to medium gravel, damp	0-5				0–4
4–5		***CLAY*** Grey CLAY, damp					4–5
5–6		***SILT*** Dark brown SILT, orange fine to coarse sand, fine to medium gravel, damp		0.4			5–6
6–7		***CLAY*** Grey CLAY, moist					6–7
7–10		***Fine to coarse SAND*** Tan/orange fine to coarse SAND, trace silt, damp	5-10	1.1		42	7–10
10–15		***Fine to coarse SAND*** Light brown fine to coarse SAND, 15% silt, 10% fine gravel, damp	10-15	NM		NM	10–15
15–20		***Fine to coarse SAND*** Light brown fine to coarse SAND, brown silt, 30% fine to coarse sand, trace fine gravel, damp	15-20	NM		NM	15–20
20							20

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-18 (SB-18)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 15, 2008
End Date: August 15, 2008
Logged By (Geol.): Francis Winslow
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Chris Migliore
Drill Rig Type: Geoprobe 6610
Drilling Method: Direct Push
Total Hole Depth: 35 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 2 inches
Sampling Method: Geoprobe Macro Core

Surface Elevation: NM
Initial Water Level: 28 fbg
Notes: Soil (SO) and groundwater (GW) samples taken as noted.

Soil boring vacuum cleared to 5 fbg.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
21–25		***SILT*** Dark brown SILT, tan fine to coarse sand, fine to medium gravel, damp	20-25* (SO)	0.0		NM	21–25
25–30		***Fine to coarse SAND*** Tan fine to coarse SAND, trace silt, trace fine gravel, saturated, groundwater encountered at 28'	25-30 28-30* (GW)	0.0		NM	25–30
30–35		***Fine to coarse SAND*** Tan fine to coarse SAND, trace silt, trace fine to medium gravel, saturated	30-35	0.0		NM	30–35
35		End of Borehole					35
36–40							36–40

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride
Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-19 (SB-19)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 19, 2008
End Date: August 19, 2008
Logged By (Geol.): Francis Winslow
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Jeremy Meyers
Drill Rig Type: CME-55 LT
Drilling Method: Hollow Stem Auger
Total Hole Depth: 25 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: NM
Initial Water Level: 14 fbg
Notes: Soil (SO) sample taken as noted.

Soil boring vacuum cleared to 5 fbg.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
0		Ground Surface					0
0–5		***SILT*** Brown SILT, 10% clay, tan/orange fine to coarse sand, 5% fine to medium gravel, damp	0-5				0–5
5–6		***Fine to coarse SAND*** Tan/orange fine to coarse SAND, 5% brown silt, trace clay, 10% fine to medium gravel, damp	5-7	0.0	4,15,16,17	19	5–6
7–8		***Fine to coarse SAND*** Tan/orange fine to coarse SAND, trace silt, trace fine gravel, damp	7-9	0.0	15,14,16,18	22.5	7–8
9–10		***Fine to coarse SAND*** Tan/orange fine to coarse SAND, trace fine gravel, 1" clayey silt layer, damp	9-11	0.0	6,8,10,13	21	9–10
11–12		***Fine to coarse SAND*** Tan/white fine to coarse SAND, trace silt, trace fine gravel, damp	11-13	0.3	8,12,16,24	23.5	11–12
13–14		***Fine to coarse SAND*** Tan/white fine to coarse SAND, trace silt, trace fine gravel, damp, groundwater encountered at 14'	13-15	0.3	14,18,22,20	24	13–14
15–16		***Fine to coarse SAND*** Tan/white fine to coarse SAND, trace silt, trace fine to medium gravel, 0.5" clayey silt layer, damp	15-17	0.5	5,15,20,16	19	15–16
17–18		***Fine to coarse SAND*** Tan/white fine to coarse SAND, trace silt, trace fine gravel, damp	17-19 17-21* (SO)	1.1	12,20,16,18	22	17–18
19–20		***Fine to coarse SAND*** Tan/white fine to coarse SAND, trace fine gravel, damp	19-21	0.1	10,13,12,11	21.5	19–20

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. GP-19 (SB-19)

Project Name: The Lighthouse Development Project
Site Location: 1255 Hempstead Tpke, Uniondale, New York
Kleinfelder Project No: 95906
Client: The Lighthouse Development Group, LLC
Start Date: August 19, 2008
End Date: August 19, 2008
Logged By (Geol.): Francis Winslow
Checked By: Edward Savarese

Drilling Company: Aquifer Drilling and Testing
Driller: Jeremy Meyers
Drill Rig Type: CME-55 LT
Drilling Method: Hollow Stem Auger
Total Hole Depth: 25 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6 inches
Sampling Method: Split Spoon

Surface Elevation: NM
Initial Water Level: 14 fbg
Notes: Soil (SO) sample taken as noted.

Soil boring vacuum cleared to 5 fbg.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 25 50	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
21				0.1	10,13,12,11		21
22		***Fine to coarse SAND*** Tan/white fine to coarse SAND, 5% silt, trace fine to medium gravel, damp	21-23	0.7 0.0	13,12,12,12	18.5	22
23		***Fine to coarse SAND*** Tan/orange fine to coarse SAND, trace fine to medium gravel, saturated					23
24		***Fine to coarse SAND*** Orange brown fine to coarse SAND, trace fine gravel, saturated	23-25	0.0	5,8,8,7	19.5	24
25		End of Borehole					25
26							26
27							27
28							28
29							29
30							30
31							31
32							32
33							33
34							34
35							35
36							36
37							37
38							38
39							39
40							40

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

APPENDIX B

Laboratory Analytical Reports

Technical Report for

Kleinfelder

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Accutest Job Number: J97202

Sampling Date: 07/30/08

Report to:

Kleinfelder

mpagotto@kleinfelder.com

ATTN: Melody Pagotto

Total number of pages in report: **27**

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ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Sample Summary

Kleinfelder

Job No: J97202

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J97202-1	07/30/08	13:02	JK	08/05/08	SO	Soil	GP13(20-22.5)
J97202-2	07/30/08	14:00	JK	08/05/08	AQ	Water	GP13
J97202-3	07/30/08	14:00	JK	08/05/08	SO	Soil	GP13(20-22.5)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Results

Report of Analysis

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: GP13(20-22.5)
Lab Sample ID: J97202-1 **Date Sampled:** 07/30/08
Matrix: SO - Soil **Date Received:** 08/05/08
Method: SW846 8260B **Percent Solids:** 93.6
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V81808.D	1	08/13/08	JLI	n/a	n/a	VV3302
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/kg	
107-02-8	Acrolein	ND	52	11	ug/kg	
107-13-1	Acrylonitrile	ND	52	1.4	ug/kg	
71-43-2	Benzene	ND	1.0	0.37	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	0.27	ug/kg	
75-25-2	Bromoform	ND	5.2	0.35	ug/kg	
74-83-9	Bromomethane	ND	5.2	0.92	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/kg	
104-51-8	n-Butylbenzene	ND	5.2	1.8	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.2	0.51	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.2	0.29	ug/kg	
75-15-0	Carbon disulfide	ND	5.2	0.52	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	0.98	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	0.31	ug/kg	
75-00-3	Chloroethane	ND	5.2	0.71	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	26	1.4	ug/kg	
67-66-3	Chloroform	ND	5.2	0.49	ug/kg	
74-87-3	Chloromethane	ND	5.2	0.74	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	0.28	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.2	0.39	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.2	0.32	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.2	0.33	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.2	1.7	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	0.41	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.45	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.2	0.55	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.2	0.38	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.2	0.34	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	0.41	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.2	0.28	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	0.25	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	0.26	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP13(20-22.5)		
Lab Sample ID:	J97202-1	**Date Sampled:**	07/30/08
Matrix:	SO - Soil	**Date Received:**	08/05/08
Method:	SW846 8260B	**Percent Solids:**	93.6
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.42	ug/kg	
76-13-1	Freon 113	ND	5.2	1.1	ug/kg	
591-78-6	2-Hexanone	ND	5.2	2.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.2	0.47	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.2	0.52	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.37	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.2	2.5	ug/kg	
75-09-2	Methylene chloride	ND	5.2	0.30	ug/kg	
91-20-3	Naphthalene	ND	5.2	0.50	ug/kg	
103-65-1	n-Propylbenzene	ND	5.2	0.50	ug/kg	
100-42-5	Styrene	ND	5.2	0.30	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	0.26	ug/kg	
127-18-4	Tetrachloroethene	ND	5.2	0.49	ug/kg	
108-88-3	Toluene	ND	1.0	0.34	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	0.44	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	0.55	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	0.27	ug/kg	
79-01-6	Trichloroethene	ND	5.2	0.31	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.2	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.2	2.3	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.2	0.25	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.2	0.36	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	0.66	ug/kg	
	m,p-Xylene	ND	2.1	0.69	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.31	ug/kg	
1330-20-7	Xylene (total)	ND	2.1	0.31	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		67-125%
17060-07-0	1,2-Dichloroethane-D4	78%		64-131%
2037-26-5	Toluene-D8	98%		73-124%
460-00-4	4-Bromofluorobenzene	86%		61-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GP13(20-22.5)
Lab Sample ID: J97202-1 **Date Sampled:** 07/30/08
Matrix: SO - Soil **Date Received:** 08/05/08
Method: SW846 8270C SW846 3550B **Percent Solids:** 93.6
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z43056.D	1	08/11/08	KLS	08/08/08	OP34132	EZ1524
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	710	10	ug/kg	
95-57-8	2-Chlorophenol	ND	180	29	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	43	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	37	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	43	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	710	380	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	710	38	ug/kg	
95-48-7	2-Methylphenol	ND	71	38	ug/kg	
	3&4-Methylphenol	ND	71	48	ug/kg	
88-75-5	2-Nitrophenol	ND	180	37	ug/kg	
100-02-7	4-Nitrophenol	ND	710	45	ug/kg	
87-86-5	Pentachlorophenol	ND	350	46	ug/kg	
108-95-2	Phenol	ND	71	27	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	38	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	47	ug/kg	
83-32-9	Acenaphthene	ND	71	19	ug/kg	
208-96-8	Acenaphthylene	ND	71	15	ug/kg	
62-53-3	Aniline	ND	71	9.4	ug/kg	
120-12-7	Anthracene	ND	71	16	ug/kg	
92-87-5	Benzidine	ND	710	180	ug/kg	
56-55-3	Benzo(a)anthracene	58.6	71	21	ug/kg	J
50-32-8	Benzo(a)pyrene	74.3	71	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	50.0	71	19	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	70.9	71	17	ug/kg	J
207-08-9	Benzo(k)fluoranthene	110	71	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	71	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	71	18	ug/kg	
91-58-7	2-Chloronaphthalene	ND	71	16	ug/kg	
106-47-8	4-Chloroaniline	ND	180	14	ug/kg	
86-74-8	Carbazole	ND	71	15	ug/kg	
218-01-9	Chrysene	111	71	16	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	71	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP13(20-22.5)		
Lab Sample ID:	J97202-1	**Date Sampled:**	07/30/08
Matrix:	SO - Soil	**Date Received:**	08/05/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	93.6
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	71	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	71	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	71	24	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	71	19	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	71	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	71	15	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	71	14	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	71	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	71	16	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	61	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	71	17	ug/kg	
132-64-9	Dibenzofuran	ND	71	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	71	22	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	71	16	ug/kg	
84-66-2	Diethyl phthalate	ND	71	16	ug/kg	
131-11-3	Dimethyl phthalate	ND	71	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	83.0	71	19	ug/kg	
206-44-0	Fluoranthene	162	71	16	ug/kg	
86-73-7	Fluorene	ND	71	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	71	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	71	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	710	34	ug/kg	
67-72-1	Hexachloroethane	ND	180	23	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	48.0	71	13	ug/kg	J
78-59-1	Isophorone	ND	71	31	ug/kg	
91-57-6	2-Methylnaphthalene	ND	71	16	ug/kg	
88-74-4	2-Nitroaniline	ND	180	26	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	22	ug/kg	
91-20-3	Naphthalene	ND	71	15	ug/kg	
98-95-3	Nitrobenzene	ND	71	16	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	71	31	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	71	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	24	ug/kg	
85-01-8	Phenanthrene	67.2	71	17	ug/kg	J
129-00-0	Pyrene	181	71	16	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	71	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP13(20-22.5)		
Lab Sample ID:	J97202-1	**Date Sampled:**	07/30/08
Matrix:	SO - Soil	**Date Received:**	08/05/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	93.6
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	71%		29-114%
4165-62-2	Phenol-d5	55%		31-111%
118-79-6	2,4,6-Tribromophenol	65%		27-133%
4165-60-0	Nitrobenzene-d5	51%		36-116%
321-60-8	2-Fluorobiphenyl	68%		44-111%
1718-51-0	Terphenyl-d14	70%		37-131%

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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	GP13(20-22.5)		
Lab Sample ID:	J97202-1	**Date Sampled:**	07/30/08
Matrix:	SO - Soil	**Date Received:**	08/05/08
Method:	SW846 8015	**Percent Solids:**	93.6
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV59158.D	1	08/09/08	JMC	n/a	n/a	GUV2611
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.6 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	94%		42-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: GP13(20-22.5)
Lab Sample ID: J97202-1 **Date Sampled:** 07/30/08
Matrix: SO - Soil **Date Received:** 08/05/08
Method: SW846 8082 SW846 3545 **Percent Solids:** 93.6
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G31035.D	1	08/14/08	OPM	08/08/08	OP34101	G2G1213
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	6.6	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	19	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	12	ug/kg	
11097-69-1	Aroclor 1254	ND	35	17	ug/kg	
11096-82-5	Aroclor 1260	ND	35	7.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		44-139%
877-09-8	Tetrachloro-m-xylene	91%		44-139%
2051-24-3	Decachlorobiphenyl	87%		39-147%
2051-24-3	Decachlorobiphenyl	97%		39-147%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: GP13(20-22.5)
Lab Sample ID: J97202-1 **Date Sampled:** 07/30/08
Matrix: SO - Soil **Date Received:** 08/05/08
Method: SW846-8015 SW846 3545 **Percent Solids:** 93.6
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Y7355.D	1	08/12/08	PM	08/08/08	OP34118	G3Y247
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	19.7	7.1	1.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	53%		31-152%
16416-32-3	Tetracosane-d50	61%		34-153%
438-22-2	5a-Androstane	57%		36-151%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: GP13(20-22.5)
Lab Sample ID: J97202-1
Matrix: SO - Soil
Date Sampled: 07/30/08
Date Received: 08/05/08
Percent Solids: 93.6
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.0	2.0	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Arsenic	< 2.0	2.0	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Beryllium	< 0.51	0.51	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Cadmium	< 0.51	0.51	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Chromium	12.3	1.0	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Copper	8.8	2.5	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Lead	32.8	2.0	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Mercury	0.036	0.033	mg/kg	1	08/14/08	08/15/08	JW	SW846 7471A [1]	SW846 7471A [3]
Nickel	5.2	4.1	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Selenium	< 2.0	2.0	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Silver	< 1.0	1.0	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Thallium	< 1.0	1.0	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Zinc	15.8	2.0	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA21320
(2) Instrument QC Batch: MA21325
(3) Prep QC Batch: MP44812
(4) Prep QC Batch: MP44817

RL = Reporting Limit

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: GP13
Lab Sample ID: J97202-2 **Date Sampled:** 07/30/08
Matrix: AQ - Water **Date Received:** 08/05/08
Method: SW846 8260B **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U108110.D	1	08/13/08	HL	n/a	n/a	VU4223
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP13		
Lab Sample ID:	J97202-2	**Date Sampled:**	07/30/08
Matrix:	AQ - Water	**Date Received:**	08/05/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		72-120%
17060-07-0	1,2-Dichloroethane-D4	90%		59-137%
2037-26-5	Toluene-D8	92%		73-116%
460-00-4	4-Bromofluorobenzene	100%		69-126%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	GP13		
Lab Sample ID:	J97202-2	**Date Sampled:**	07/30/08
Matrix:	AQ - Water	**Date Received:**	08/05/08
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV59091.D	1	08/07/08	JMC	n/a	n/a	GUV2608
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	94%		51-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: GP13(20-22.5)
Lab Sample ID: J97202-3 **Date Sampled:** 07/30/08
Matrix: SO - Soil **Date Received:** 08/05/08
Method: SW846 8260B **Percent Solids:** 95.8
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V81809.D	1	08/13/08	JLI	n/a	n/a	VV3302
Run #2							

	Initial Weight
Run #1	5.5 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9.5	2.0	ug/kg	
107-02-8	Acrolein	ND	47	10	ug/kg	
107-13-1	Acrylonitrile	ND	47	1.3	ug/kg	
71-43-2	Benzene	ND	0.95	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	4.7	0.25	ug/kg	
75-25-2	Bromoform	ND	4.7	0.32	ug/kg	
74-83-9	Bromomethane	ND	4.7	0.84	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.5	2.1	ug/kg	
104-51-8	n-Butylbenzene	ND	4.7	1.7	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.7	0.46	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.7	0.27	ug/kg	
75-15-0	Carbon disulfide	ND	4.7	0.48	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.7	0.89	ug/kg	
108-90-7	Chlorobenzene	ND	4.7	0.28	ug/kg	
75-00-3	Chloroethane	ND	4.7	0.65	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	24	1.3	ug/kg	
67-66-3	Chloroform	ND	4.7	0.44	ug/kg	
74-87-3	Chloromethane	ND	4.7	0.67	ug/kg	
124-48-1	Dibromochloromethane	ND	4.7	0.26	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.35	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.29	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.30	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.7	1.5	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.7	0.37	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.95	0.41	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.7	0.50	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.7	0.34	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.7	0.30	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.7	0.37	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.7	0.26	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.7	0.23	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.7	0.24	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP13(20-22.5)		
Lab Sample ID:	J97202-3	**Date Sampled:**	07/30/08
Matrix:	SO - Soil	**Date Received:**	08/05/08
Method:	SW846 8260B	**Percent Solids:**	95.8
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	0.95	0.38	ug/kg	
76-13-1	Freon 113	ND	4.7	1.0	ug/kg	
591-78-6	2-Hexanone	ND	4.7	1.8	ug/kg	
98-82-8	Isopropylbenzene	ND	4.7	0.42	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.7	0.47	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.95	0.34	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.7	2.3	ug/kg	
75-09-2	Methylene chloride	ND	4.7	0.28	ug/kg	
91-20-3	Naphthalene	ND	4.7	0.46	ug/kg	
103-65-1	n-Propylbenzene	ND	4.7	0.45	ug/kg	
100-42-5	Styrene	ND	4.7	0.27	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.7	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	4.7	0.44	ug/kg	
108-88-3	Toluene	ND	0.95	0.31	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	0.40	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.7	0.50	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.7	0.24	ug/kg	
79-01-6	Trichloroethene	ND	4.7	0.28	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.7	1.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.7	2.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.7	0.23	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.7	0.33	ug/kg	
75-01-4	Vinyl chloride	ND	4.7	0.60	ug/kg	
	m,p-Xylene	ND	1.9	0.63	ug/kg	
95-47-6	o-Xylene	ND	0.95	0.28	ug/kg	
1330-20-7	Xylene (total)	ND	1.9	0.28	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		67-125%
17060-07-0	1,2-Dichloroethane-D4	82%		64-131%
2037-26-5	Toluene-D8	98%		73-124%
460-00-4	4-Bromofluorobenzene	88%		61-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: GP13(20-22.5)
Lab Sample ID: J97202-3 **Date Sampled:** 07/30/08
Matrix: SO - Soil **Date Received:** 08/05/08
Method: SW846 8270C SW846 3550B **Percent Solids:** 95.8
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z43057.D	1	08/11/08	KLS	08/08/08	OP34132	EZ1524
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	700	9.8	ug/kg	
95-57-8	2-Chlorophenol	ND	170	29	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	42	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	36	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	42	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	700	380	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	700	37	ug/kg	
95-48-7	2-Methylphenol	ND	70	38	ug/kg	
	3&4-Methylphenol	ND	70	47	ug/kg	
88-75-5	2-Nitrophenol	ND	170	37	ug/kg	
100-02-7	4-Nitrophenol	ND	700	45	ug/kg	
87-86-5	Pentachlorophenol	ND	350	45	ug/kg	
108-95-2	Phenol	ND	70	26	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	38	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	46	ug/kg	
83-32-9	Acenaphthene	ND	70	18	ug/kg	
208-96-8	Acenaphthylene	ND	70	15	ug/kg	
62-53-3	Aniline	ND	70	9.2	ug/kg	
120-12-7	Anthracene	ND	70	16	ug/kg	
92-87-5	Benzidine	ND	700	180	ug/kg	
56-55-3	Benzo(a)anthracene	ND	70	21	ug/kg	
50-32-8	Benzo(a)pyrene	ND	70	14	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	70	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	70	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	70	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	70	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	70	17	ug/kg	
91-58-7	2-Chloronaphthalene	ND	70	15	ug/kg	
106-47-8	4-Chloroaniline	ND	170	14	ug/kg	
86-74-8	Carbazole	ND	70	15	ug/kg	
218-01-9	Chrysene	ND	70	16	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	70	17	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP13(20-22.5)		
Lab Sample ID:	J97202-3	**Date Sampled:**	07/30/08
Matrix:	SO - Soil	**Date Received:**	08/05/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	95.8
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	70	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	70	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	70	23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	70	19	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	70	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	70	14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	70	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	70	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	70	16	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	60	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	70	17	ug/kg	
132-64-9	Dibenzofuran	ND	70	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	70	22	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	70	15	ug/kg	
84-66-2	Diethyl phthalate	ND	70	16	ug/kg	
131-11-3	Dimethyl phthalate	ND	70	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	70	18	ug/kg	
206-44-0	Fluoranthene	ND	70	16	ug/kg	
86-73-7	Fluorene	ND	70	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	70	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	70	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	700	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	70	13	ug/kg	
78-59-1	Isophorone	ND	70	31	ug/kg	
91-57-6	2-Methylnaphthalene	ND	70	16	ug/kg	
88-74-4	2-Nitroaniline	ND	170	26	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	22	ug/kg	
91-20-3	Naphthalene	ND	70	15	ug/kg	
98-95-3	Nitrobenzene	ND	70	16	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	70	31	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	70	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	23	ug/kg	
85-01-8	Phenanthrene	ND	70	17	ug/kg	
129-00-0	Pyrene	ND	70	15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	70	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP13(20-22.5)		
Lab Sample ID:	J97202-3	**Date Sampled:**	07/30/08
Matrix:	SO - Soil	**Date Received:**	08/05/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	95.8
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		29-114%
4165-62-2	Phenol-d5	58%		31-111%
118-79-6	2,4,6-Tribromophenol	68%		27-133%
4165-60-0	Nitrobenzene-d5	52%		36-116%
321-60-8	2-Fluorobiphenyl	68%		44-111%
1718-51-0	Terphenyl-d14	80%		37-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	GP13(20-22.5)		
Lab Sample ID:	J97202-3	**Date Sampled:**	07/30/08
Matrix:	SO - Soil	**Date Received:**	08/05/08
Method:	SW846 8015	**Percent Solids:**	95.8
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF67549.D	1	08/12/08	JMC	n/a	n/a	GPF1437
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	2.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	99%		42-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: GP13(20-22.5)
Lab Sample ID: J97202-3 **Date Sampled:** 07/30/08
Matrix: SO - Soil **Date Received:** 08/05/08
Method: SW846 8082 SW846 3545 **Percent Solids:** 95.8
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G31036.D	1	08/14/08	OPM	08/08/08	OP34101	G2G1213
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	6.6	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	19	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	12	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	ND	35	7.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		44-139%
877-09-8	Tetrachloro-m-xylene	89%		44-139%
2051-24-3	Decachlorobiphenyl	113%		39-147%
2051-24-3	Decachlorobiphenyl	121%		39-147%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: GP13(20-22.5)
Lab Sample ID: J97202-3 **Date Sampled:** 07/30/08
Matrix: SO - Soil **Date Received:** 08/05/08
Method: SW846-8015 SW846 3545 **Percent Solids:** 95.8
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Y7356.D	1	08/12/08	PM	08/08/08	OP34118	G3Y247
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	9.97	6.8	1.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	56%		31-152%
16416-32-3	Tetracosane-d50	63%		34-153%
438-22-2	5a-Androstane	60%		36-151%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: GP13(20-22.5)
Lab Sample ID: J97202-3
Matrix: SO - Soil
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 07/30/08
Date Received: 08/05/08
Percent Solids: 95.8

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.0	2.0	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Arsenic	2.2	2.0	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Beryllium	< 0.50	0.50	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Cadmium	< 0.50	0.50	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Chromium	7.5	0.99	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Copper	3.5	2.5	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Lead	2.0	2.0	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Mercury	< 0.032	0.032	mg/kg	1	08/14/08	08/15/08	JW	SW846 7471A [1]	SW846 7471A [3]
Nickel	< 4.0	4.0	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Selenium	< 2.0	2.0	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Silver	< 0.99	0.99	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Thallium	< 0.99	0.99	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]
Zinc	6.8	2.0	mg/kg	1	08/15/08	08/15/08	GT	SW846 6010B [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA21320
(2) Instrument QC Batch: MA21325
(3) Prep QC Batch: MP44812
(4) Prep QC Batch: MP44817

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST. SO WW Laboratories

2235 Route 130 Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: J97202

Client Information | **Facility Information** | **Analytical Information**

[redacted] CORPORATION - Regional Laboratory Program (NY, NJ)

Consultants Company Name: KLEINFELDER	Project Name: LIGHTHOUSE
Address: 1 CORPORATE DRIVE. Suite 201	Street:
City: Bohemia, N.Y. State: Zip:	City: UNIONDALE, NY State:
Project Contact: Andy Wilson	[redacted] Manager: NA
Sampler's Name: Jackie Kisch	[redacted] Manager's Phone #:
Phone #: 631 231-93 82 Ext: Fax #:	Location ID#: WBS#:
AFE #:	PO#: Line#:

Accutest Sample #	Field ID / Point of Collection	Collection: Date	Time	Sampled by	Matrix	# of bottles	Preservation: HCL	NaOH	HNO3	H2SO4	None	Na2SO3	MEOH	Encore
1	GP13 (20-22.5)-1	7/30/08	1302	JK	Soil	2					X			
2	GP13	7/30/08	1400	JK	H2O	2	X							
3	GP13 -2	7/30/08	1400	JK	H2O	3	X							
4	GP13	7/30/08	1400	JK	H2O	3					X			
5	GP13	7/30/08	1400	JK	H2O	2	X							
6	GP13	7/30/08	1400	JK	H2O	2	X							
7	GP13 (20-22.5) -3	7/30/08	1400	JK	Soil	1					X			
8	GP13 (20-22.5)	7/30/08	1302	JK	Soil	1					X			
9	GP13 (20-22.5) -4	7/30/08	1302	JK	Soil	1					X			
10	GP13 (20-22.5) -4MS	7/30/08	1302	JK	Soil	1					X			
11	GP13 (20-22.5) -4	7/30/08	1302	JK	Soil	1								

BTEX ☐ 602 ☐ 8021 ☐ 624 ☐ 8260 ☐ BENZENE ☐ MTBE ☐ NAPHTHALENE ☐ TBA ☐ PPL ☐ MTBE ☐ TBA ☐ TCL ☐ +10 ☐ +15 ☐ 625 ☐ 8270 ☐ NAPHTHALENE ☐ PPL ☐ BN ☐ PAH ☐ TCL ☐ +15 ☐ STARS LIST ☐

Analytical Information: ~~8260 STARS LIST~~ 8260 SL; Lead 6010 ☐ 200.7 ☐ Total ☐ Dissolved ☐ (SED) Soil MULTI; Air - TO1 BTEX ☐ MTBE ☐ TPH ☐ Methane ☐ 8260 STARS; Air TO14 - BTEX ☐ PRELIST ☐ 8260 SL (SED); TCL 8260 STARS; ~~TCL SVOC 8270 STARS~~; ~~TCL PEST 8081A~~; TPH 418.1 ☐ OQA-25 ☐; V8015 GRO (SED) (SO); V8015 GRO; VOC 8260 SL (FB); SVOC 8015 SL (SUB); 8260 SL; Soil MULTI

Turnaround Time (Business days)	Approved By:/Date
☒ Std. 10 Business Days	
☐ 8 Day RUSH	
☐ 5 Day RUSH	
☐ 3 Day *EMERGENCY*	
☐ 2 Day *EMERGENCY*	
☐ 1 Day EMERGENCY	

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ NJ Reduced
- ☐ NJ Full
- ☐ Other

Commercial "A" = Results only

- ☐ FULL CLP
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format _____

Comments / Remarks

SUB, 2199N, EX82, 19H1

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1	Date Time: 8/4/08	Received by: 1 Fed Ex	Relinquished by: 2 Fed Ex	Date Time: 8/5/08 1015	Received by: 2
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Seal #	Preserved where applicable ☐	On Ice ☑ Temp. 4.6°C

J97202: Chain of Custody
Page 1 of 1

Technical Report for

Kleinfelder

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Accutest Job Number: J97128

Sampling Date: 07/31/08

Report to:

Kleinfelder

mpagotto@kleinfelder.com

ATTN: Melody Pagotto

Total number of pages in report: **16**

ACCUTEST LABORATORIES 50 YEARS 1956-2006

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Sample Summary

Kleinfelder

Job No: J97128

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J97128-1	07/31/08	14:00	JK	08/02/08	AQ	Ground Water	GP-13
J97128-1F	07/31/08	14:00	JK	08/02/08	AQ	Groundwater Filtered	GP-13
J97128-2F	07/31/08	14:00	JK	08/02/08	AQ	Field Blank Filtered	GP-13 (FB)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: GP-13
Lab Sample ID: J97128-1 **Date Sampled:** 07/31/08
Matrix: AQ - Ground Water **Date Received:** 08/02/08
Method: SW846 8270C SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E15845.D	1	08/14/08	OYA	08/05/08	OP34072	E3E689
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	20	3.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	1.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	4.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	1.2	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.4	ug/l	
	3&4-Methylphenol	ND	2.0	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	2.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.6	ug/l	
83-32-9	Acenaphthene	0.66	2.0	0.38	ug/l	J
208-96-8	Acenaphthylene	ND	2.0	0.54	ug/l	
62-53-3	Aniline	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	2.0	0.42	ug/l	
92-87-5	Benzidine	ND	20	8.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.38	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.53	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.46	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.57	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.41	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.33	ug/l	
86-74-8	Carbazole	ND	2.0	0.45	ug/l	
218-01-9	Chrysene	ND	2.0	0.44	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.52	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-13		
Lab Sample ID:	J97128-1	**Date Sampled:**	07/31/08
Matrix:	AQ - Ground Water	**Date Received:**	08/02/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.45	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.35	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	2.0	0.52	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.33	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	4.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.45	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.50	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.36	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.75	ug/l	
206-44-0	Fluoranthene	0.65	2.0	0.40	ug/l	J
86-73-7	Fluorene	0.41	2.0	0.40	ug/l	J
118-74-1	Hexachlorobenzene	ND	2.0	0.45	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.38	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	4.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	0.42	ug/l	
78-59-1	Isophorone	ND	2.0	0.69	ug/l	
91-57-6	2-Methylnaphthalene	0.45	2.0	0.43	ug/l	J
88-74-4	2-Nitroaniline	ND	5.0	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.45	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.45	ug/l	
91-20-3	Naphthalene	0.36	2.0	0.32	ug/l	J
98-95-3	Nitrobenzene	ND	2.0	0.66	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.36	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.39	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	1.5	2.0	0.34	ug/l	J
129-00-0	Pyrene	0.82	2.0	0.48	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.37	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-13		
Lab Sample ID:	J97128-1	**Date Sampled:**	07/31/08
Matrix:	AQ - Ground Water	**Date Received:**	08/02/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		10-69%
4165-62-2	Phenol-d5	24%		10-52%
118-79-6	2,4,6-Tribromophenol	103%		32-134%
4165-60-0	Nitrobenzene-d5	74%		23-116%
321-60-8	2-Fluorobiphenyl	79%		28-109%
1718-51-0	Terphenyl-d14	80%		24-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: GP-13
Lab Sample ID: J97128-1 **Date Sampled:** 07/31/08
Matrix: AQ - Ground Water **Date Received:** 08/02/08
Method: SW846 8082 SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G39399.D	1	08/24/08	OPM	08/05/08	OP34053	G1G1426
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.094	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.47	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.16	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		23-131%
877-09-8	Tetrachloro-m-xylene	84%		23-131%
2051-24-3	Decachlorobiphenyl	44%		12-139%
2051-24-3	Decachlorobiphenyl	44%		12-139%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-13		
Lab Sample ID:	J97128-1	**Date Sampled:**	07/31/08
Matrix:	AQ - Ground Water	**Date Received:**	08/02/08
Method:	SW846-8015 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	YZ48847.D	1	08/18/08	PM	08/16/08	OP34238	GYZ1396
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.10	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	99%		31-132%
16416-32-3	Tetracosane-d50	98%		26-139%
438-22-2	5a-Androstane	95%		26-133%

(a) Re-extracted due to spike standard was added on original extract. originally prep date was within holding time.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: GP-13
Lab Sample ID: J97128-1
Matrix: AQ - Ground Water
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 07/31/08
Date Received: 08/02/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Chromium	164	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Copper	57.5	25	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Lead	9.4	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/20/08	08/20/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Zinc	46.9	20	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21341
(2) Instrument QC Batch: MA21342
(3) Prep QC Batch: MP44881
(4) Prep QC Batch: MP44892

RL = Reporting Limit

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-13		
Lab Sample ID:	J97128-1F	**Date Sampled:**	07/31/08
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/02/08
		Percent Solids:	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/20/08	08/20/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21341
(2) Instrument QC Batch: MA21342
(3) Prep QC Batch: MP44881
(4) Prep QC Batch: MP44892

RL = Reporting Limit

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: GP-13 (FB)
Lab Sample ID: J97128-2F
Matrix: AQ - Field Blank Filtered
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 07/31/08
Date Received: 08/02/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/20/08	08/20/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21341
(2) Instrument QC Batch: MA21342
(3) Prep QC Batch: MP44881
(4) Prep QC Batch: MP44892

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories

2235 Route 130, Dayton NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

SW FB

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # J97128

Client / Reporting Information

Company Name: Kleinfelder
Address: 461 Corporate Drive
City: Bohemia State: N.Y. Zip: 117
Project Contact: Andy Winslow E-mail:
Phone #: 631 831-9382
Sampler's Name: Jackie Kisch

Project Information

Project Name: Lighthouse
Street: 1255 Hempstead Tpk
City: Uniondale State: NY
Project #:
Fax #:
Client Purchase Order #:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Time	Sampled By	Matrix	# of bottles	Number of preserved Bottles	PB082 PCB	PM13	PM13 (FB) field blank	AB 8270 SL	DRO B2015 DRO	SED (6 Analytes)	LAB USE ONLY
1	GP-13		7/30/08	1400	JK	H2O	3	NONE	X	X					EX86,
2	GP-13		7/30/08	1400	JK	H2O	2	HNO3			X				AMET9,
3	GP-13 (FB)		7/30/08	1400	JK	H2O	2	HNO3			X				
4	GP-13		7/30/08	1400	JK	H2O	1	NONE		X					
5	GP-13		7/30/08	1400	JK	H2O	3	NONE				X			
6	GP-13		7/30/08	1400	JK	H2O	2	HCl	X				X		
7	GP-13 (20-22.5)		7/30/08	1400	JK	Soil	1	NONE						X	

Turnaround Time (Business Days)

- [x] Std. 15 Business Days — Approved By: / Date:
- [ ] 10 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*
- [ ] Other

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] NJ Reduced
- [ ] NJ Full
- [ ] Other
- [ ] FULL CLP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results Only

Comments / Remarks

PM13 (2 BOTTLES - 1 Filtered, 1 unf. Hcl)
PM13 PM13 2 field blanks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date/Time:	Received by:	Relinquished by:	Date Time:	Received by:
1 Andy Winslow	7/31/08	1	2		2
Relinquished by:	Date Time:	Received by	Relinquished by	Date/Time:	Received by:
3	8/1/08	3 FedX	4 FEDEX	8/4/08 1000	4
Relinquished by:	Date Time:	Received by	Custody Seal #	Preserved where applicable	On Ice	Cooler Temp
5		5		AM	X	4.6 °C

1A

J97128: Chain of Custody
Page 1 of 3

ACCUTEST Laboratories

Immediate Action Required
Scanned as Problem Note
☒ Action Required at Login
Not Scanned

Issue Date: 3/4/08

Sample Receipt Issues Summary

To: Client Services / Login
From: Sample Management

Sample Management Technicians Initials: MW

Client: KCinfelder Project: Uniondale Job #: J97128 COC

- ☐ Trip Blank Not Received
- ☐ Trip Blank Not on Chain of Custody
- ☐ Temperature Criteria (2-6 C) Not Met
  - ☐ Ice Present
  - ☐ No Ice Present
  - ☐ Frozen
- ☐ Sample Received Out of Holding Time
- ☐ Encore received outside of Holding Time
- ☐ Soil VOA vials in DI water to be frozen rec'd outside of 48 hr Holding Time
- ☐ Sample Received Broken
- ☐ Insufficient Volume For Analysis
- ☐ Sample Received Improperly Preserved
- ☐ Times on Chain Don't Match Label
- ☒ ID's on Chain Don't Match Label
- ☐ Sample Labels Not Present on all Bottles
- ☐ Analysis Requested is Unclear or Missing
- ☐ VOC Vials Have Headspace (Macro-bubbles)
- ☐ Bottles Rcv'd, Analysis Not Requested on COC
- ☐ No Bottles Received for Analysis Requested
- ☐ Unclear Filtering Instructions
- ☐ Unclear Compositing Instructions
- ☐ % Solids Jar Not Received
- ☐ No Chain of Custody Received
- ☐ Sample Dates or Times Unclear or Missing

Description of Problem:

(1) -1 1x Met labeled "GP13 (unfiltered)" @1400
1x Met " "GP13 (F, Heard)" @1400
set up together

(2) -2 FB 1x Met labeled "GP13 (FB)" DISS @1400
1x Met " "GP13" DISS @1400
acid 2 DISS Met vols

Form: SM65-01
Rev. Date: 06/05/08

J97128: Chain of Custody
Page 2 of 3

ORIGNAL UPFRONT ALREADY

RUB

ACCUTEST Laboratories

Response Date: 8/4

Sample Receipt Resolution

Client: Kleinfelder Project: Uniondale Job #: J97128

Resolution Instructions:

Sample-1 needs PM13 total and Dissolved. We have the correct bottle for each.
Sample –2 (FB) , needs PM13 only- Should have been "total" but since both bottles submitted were filtered , we have no choice but to report the FB as dissolved.
Only one of the 2 bottles submitted is needed. The other can be discarded.

Per Andy Winslow

Initials: MV

Technical Report for

Kleinfelder

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

08540-49315

Accutest Job Number: J97892

Sampling Date: 08/02/08

Report to:

Kleinfelder

mpagotto@kleinfelder.com

ATTN: Melody Pagotto

Total number of pages in report: **26**

ACCUTEST LABORATORIES 50 YEARS 1956-2006

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Sample Summary

Kleinfelder

Job No: J97892

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY
Project No: 08540-49315

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J97892-1	08/02/08	10:26	SM	08/13/08	SO	Soil	GP-1(25-28')
J97892-2	08/02/08	16:54	SM	08/13/08	AQ	Ground Water	GP-1
J97892-2F	08/02/08	16:54	SM	08/13/08	AQ	Groundwater Filtered	GP-1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	GP-1(25-28')		
Lab Sample ID:	J97892-1	**Date Sampled:**	08/02/08
Matrix:	SO - Soil	**Date Received:**	08/13/08
Method:	SW846 8260B	**Percent Solids:**	94.4
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G112797.D	1	08/15/08	SJM	n/a	n/a	VG5442
Run #2							

	Initial Weight
Run #1	4.4 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.6	ug/kg	
107-02-8	Acrolein	ND	60	13	ug/kg	
107-13-1	Acrylonitrile	ND	60	1.6	ug/kg	
71-43-2	Benzene	ND	1.2	0.42	ug/kg	
75-27-4	Bromodichloromethane	ND	6.0	0.31	ug/kg	
75-25-2	Bromoform	ND	6.0	0.40	ug/kg	
74-83-9	Bromomethane	ND	6.0	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.7	ug/kg	
104-51-8	n-Butylbenzene	6.7	6.0	2.1	ug/kg	
135-98-8	sec-Butylbenzene	2.4	6.0	0.59	ug/kg	J
98-06-6	tert-Butylbenzene	ND	6.0	0.34	ug/kg	
75-15-0	Carbon disulfide	ND	6.0	0.60	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.0	1.1	ug/kg	
108-90-7	Chlorobenzene	ND	6.0	0.36	ug/kg	
75-00-3	Chloroethane	ND	6.0	0.82	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	30	1.6	ug/kg	
67-66-3	Chloroform	ND	6.0	0.56	ug/kg	
74-87-3	Chloromethane	ND	6.0	0.85	ug/kg	
124-48-1	Dibromochloromethane	ND	6.0	0.32	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.0	0.44	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.0	0.36	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.0	0.38	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.0	1.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.0	0.47	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.52	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.0	0.63	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.0	0.43	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.0	0.39	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.0	0.47	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.0	0.33	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.0	0.29	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.0	0.30	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-1(25-28')		
Lab Sample ID:	J97892-1	**Date Sampled:**	08/02/08
Matrix:	SO - Soil	**Date Received:**	08/13/08
Method:	SW846 8260B	**Percent Solids:**	94.4
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	0.62	1.2	0.49	ug/kg	J
76-13-1	Freon 113	ND	6.0	1.3	ug/kg	
591-78-6	2-Hexanone	ND	6.0	2.3	ug/kg	
98-82-8	Isopropylbenzene	ND	6.0	0.54	ug/kg	
99-87-6	p-Isopropyltoluene	4.2	6.0	0.60	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.43	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.0	2.9	ug/kg	
75-09-2	Methylene chloride	ND	6.0	0.35	ug/kg	
91-20-3	Naphthalene	13.2	6.0	0.58	ug/kg	
103-65-1	n-Propylbenzene	1.8	6.0	0.58	ug/kg	J
100-42-5	Styrene	ND	6.0	0.35	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.0	0.30	ug/kg	
127-18-4	Tetrachloroethene	0.69	6.0	0.56	ug/kg	J
108-88-3	Toluene	ND	1.2	0.40	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.0	0.51	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.0	0.63	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.0	0.31	ug/kg	
79-01-6	Trichloroethene	ND	6.0	0.35	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.0	1.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.0	2.6	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	36.8	6.0	0.29	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	12.7	6.0	0.42	ug/kg	
75-01-4	Vinyl chloride	ND	6.0	0.76	ug/kg	
	m,p-Xylene	2.9	2.4	0.79	ug/kg	
95-47-6	o-Xylene	2.2	1.2	0.36	ug/kg	
1330-20-7	Xylene (total)	5.1	2.4	0.36	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		67-125%
17060-07-0	1,2-Dichloroethane-D4	100%		64-131%
2037-26-5	Toluene-D8	107%		73-124%
460-00-4	4-Bromofluorobenzene	102%		61-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GP-1(25-28')
Lab Sample ID: J97892-1 **Date Sampled:** 08/02/08
Matrix: SO - Soil **Date Received:** 08/13/08
Method: SW846 8270C SW846 3545 **Percent Solids:** 94.4
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P38574.D	1	08/14/08	WG	08/13/08	OP34160	EP1593
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	710	10	ug/kg	
95-57-8	2-Chlorophenol	ND	180	29	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	43	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	37	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	43	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	710	380	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	710	37	ug/kg	
95-48-7	2-Methylphenol	ND	71	38	ug/kg	
	3&4-Methylphenol	ND	71	47	ug/kg	
88-75-5	2-Nitrophenol	ND	180	37	ug/kg	
100-02-7	4-Nitrophenol	ND	710	45	ug/kg	
87-86-5	Pentachlorophenol	ND	350	46	ug/kg	
108-95-2	Phenol	ND	71	27	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	38	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	47	ug/kg	
83-32-9	Acenaphthene	31.9	71	19	ug/kg	J
208-96-8	Acenaphthylene	48.3	71	15	ug/kg	J
62-53-3	Aniline	ND	71	9.4	ug/kg	
120-12-7	Anthracene	38.2	71	16	ug/kg	J
92-87-5	Benzidine	ND	710	180	ug/kg	
56-55-3	Benzo(a)anthracene	210	71	21	ug/kg	
50-32-8	Benzo(a)pyrene	184	71	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	169	71	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	125	71	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	149	71	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	71	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	71	18	ug/kg	
91-58-7	2-Chloronaphthalene	ND	71	16	ug/kg	
106-47-8	4-Chloroaniline	ND	180	14	ug/kg	
86-74-8	Carbazole	26.4	71	15	ug/kg	J
218-01-9	Chrysene	242	71	16	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	71	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-1(25-28')		
Lab Sample ID:	J97892-1	**Date Sampled:**	08/02/08
Matrix:	SO - Soil	**Date Received:**	08/13/08
Method:	SW846 8270C SW846 3545	**Percent Solids:**	94.4
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	71	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	71	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	71	24	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	71	19	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	71	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	71	15	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	71	14	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	71	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	71	16	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	61	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	43.1	71	17	ug/kg	J
132-64-9	Dibenzofuran	41.7	71	16	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	71	22	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	71	16	ug/kg	
84-66-2	Diethyl phthalate	ND	71	16	ug/kg	
131-11-3	Dimethyl phthalate	ND	71	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	155	71	18	ug/kg	
206-44-0	Fluoranthene	419	71	16	ug/kg	
86-73-7	Fluorene	36.0	71	17	ug/kg	J
118-74-1	Hexachlorobenzene	ND	71	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	71	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	710	33	ug/kg	
67-72-1	Hexachloroethane	ND	180	23	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	115	71	13	ug/kg	
78-59-1	Isophorone	ND	71	31	ug/kg	
91-57-6	2-Methylnaphthalene	ND	71	16	ug/kg	
88-74-4	2-Nitroaniline	ND	180	26	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	22	ug/kg	
91-20-3	Naphthalene	ND	71	15	ug/kg	
98-95-3	Nitrobenzene	ND	71	16	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	71	31	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	71	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	24	ug/kg	
85-01-8	Phenanthrene	356	71	17	ug/kg	
129-00-0	Pyrene	415	71	16	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	71	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-1(25-28')		
Lab Sample ID:	J97892-1	**Date Sampled:**	08/02/08
Matrix:	SO - Soil	**Date Received:**	08/13/08
Method:	SW846 8270C SW846 3545	**Percent Solids:**	94.4
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	73%		29-114%
4165-62-2	Phenol-d5	77%		31-111%
118-79-6	2,4,6-Tribromophenol	71%		27-133%
4165-60-0	Nitrobenzene-d5	79%		36-116%
321-60-8	2-Fluorobiphenyl	66%		44-111%
1718-51-0	Terphenyl-d14	65%		37-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-1(25-28')		
Lab Sample ID:	J97892-1	**Date Sampled:**	08/02/08
Matrix:	SO - Soil	**Date Received:**	08/13/08
Method:	SW846 8015	**Percent Solids:**	94.4
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF67630.D	1	08/14/08	JMC	n/a	n/a	GPF1440
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.5 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	18.1	10	2.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	97%		42-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: GP-1(25-28')
Lab Sample ID: J97892-1 **Date Sampled:** 08/02/08
Matrix: SO - Soil **Date Received:** 08/13/08
Method: SW846 8082 SW846 3545 **Percent Solids:** 94.4
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF75753.D	1	08/20/08	VDT	08/13/08	OP34183	GEF3505
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	100	19	ug/kg	
11104-28-2	Aroclor 1221	ND	100	61	ug/kg	
11141-16-5	Aroclor 1232	ND	100	55	ug/kg	
53469-21-9	Aroclor 1242	ND	100	32	ug/kg	
12672-29-6	Aroclor 1248	ND	100	35	ug/kg	
11097-69-1	Aroclor 1254	ND	100	48	ug/kg	
11096-82-5	Aroclor 1260	ND	100	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		44-139%
877-09-8	Tetrachloro-m-xylene	88%		44-139%
2051-24-3	Decachlorobiphenyl	86%		39-147%
2051-24-3	Decachlorobiphenyl	83%		39-147%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: GP-1(25-28')
Lab Sample ID: J97892-1 **Date Sampled:** 08/02/08
Matrix: SO - Soil **Date Received:** 08/13/08
Method: SW846-8015 SW846 3545 **Percent Solids:** 94.4
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Y7428.D	1	08/14/08	PM	08/14/08	OP34199	G3Y250
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	323	6.9	1.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	67%		31-152%
16416-32-3	Tetracosane-d50	75%		34-153%
438-22-2	5a-Androstane	72%		36-151%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: GP-1(25-28')
Lab Sample ID: J97892-1
Matrix: SO - Soil
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/02/08
Date Received: 08/13/08
Percent Solids: 94.4

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.0	2.0	mg/kg	1	08/25/08	08/25/08	ND	SW846 6010B [2]	SW846 3050B [3]
Arsenic	< 2.0	2.0	mg/kg	1	08/25/08	08/25/08	ND	SW846 6010B [2]	SW846 3050B [3]
Beryllium	< 0.51	0.51	mg/kg	1	08/25/08	08/25/08	ND	SW846 6010B [2]	SW846 3050B [3]
Cadmium	< 0.51	0.51	mg/kg	1	08/25/08	08/25/08	ND	SW846 6010B [2]	SW846 3050B [3]
Chromium	13.5	1.0	mg/kg	1	08/25/08	08/25/08	ND	SW846 6010B [2]	SW846 3050B [3]
Copper	9.2	2.5	mg/kg	1	08/25/08	08/25/08	ND	SW846 6010B [2]	SW846 3050B [3]
Lead	16.9	2.0	mg/kg	1	08/25/08	08/25/08	ND	SW846 6010B [2]	SW846 3050B [3]
Mercury	< 0.033	0.033	mg/kg	1	08/25/08	08/25/08	JF	SW846 7471A [1]	SW846 7471A [4]
Nickel	5.6	4.0	mg/kg	1	08/25/08	08/25/08	ND	SW846 6010B [2]	SW846 3050B [3]
Selenium	< 2.0	2.0	mg/kg	1	08/25/08	08/25/08	ND	SW846 6010B [2]	SW846 3050B [3]
Silver	< 1.0	1.0	mg/kg	1	08/25/08	08/25/08	ND	SW846 6010B [2]	SW846 3050B [3]
Thallium	< 1.0	1.0	mg/kg	1	08/25/08	08/25/08	ND	SW846 6010B [2]	SW846 3050B [3]
Zinc	19.1	2.0	mg/kg	1	08/25/08	08/25/08	ND	SW846 6010B [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA21355
(2) Instrument QC Batch: MA21357
(3) Prep QC Batch: MP44936
(4) Prep QC Batch: MP44942

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-1		
Lab Sample ID:	J97892-2	**Date Sampled:**	08/02/08
Matrix:	AQ - Ground Water	**Date Received:**	08/13/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E29585.D	1	08/15/08	JAL	n/a	n/a	V2E1292
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-1		
Lab Sample ID:	J97892-2	**Date Sampled:**	08/02/08
Matrix:	AQ - Ground Water	**Date Received:**	08/13/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		72-120%
17060-07-0	1,2-Dichloroethane-D4	98%		59-137%
2037-26-5	Toluene-D8	90%		73-116%
460-00-4	4-Bromofluorobenzene	94%		69-126%

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N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: GP-1
Lab Sample ID: J97892-2 **Date Sampled:** 08/02/08
Matrix: AQ - Ground Water **Date Received:** 08/13/08
Method: SW846 8270C SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P38586.D	1	08/15/08	WG	08/13/08	OP34137	EP1594
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	20	3.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	1.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	4.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	1.2	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.4	ug/l	
	3&4-Methylphenol	ND	2.0	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	2.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.6	ug/l	
83-32-9	Acenaphthene	0.39	2.0	0.38	ug/l	J
208-96-8	Acenaphthylene	ND	2.0	0.54	ug/l	
62-53-3	Aniline	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	2.0	0.42	ug/l	
92-87-5	Benzidine	ND	20	8.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.38	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.53	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.46	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.57	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.41	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.33	ug/l	
86-74-8	Carbazole	ND	2.0	0.45	ug/l	
218-01-9	Chrysene	ND	2.0	0.44	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.52	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-1		
Lab Sample ID:	J97892-2	**Date Sampled:**	08/02/08
Matrix:	AQ - Ground Water	**Date Received:**	08/13/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.45	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.35	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	2.0	0.52	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.33	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	4.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.45	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.50	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.36	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	1.6	2.0	0.75	ug/l	J
206-44-0	Fluoranthene	0.40	2.0	0.40	ug/l	J
86-73-7	Fluorene	0.41	2.0	0.40	ug/l	J
118-74-1	Hexachlorobenzene	ND	2.0	0.45	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.38	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	4.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	0.42	ug/l	
78-59-1	Isophorone	ND	2.0	0.69	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.45	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.45	ug/l	
91-20-3	Naphthalene	ND	2.0	0.32	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.66	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.36	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.39	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.34	ug/l	
129-00-0	Pyrene	ND	2.0	0.48	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.37	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-1		
Lab Sample ID:	J97892-2	**Date Sampled:**	08/02/08
Matrix:	AQ - Ground Water	**Date Received:**	08/13/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		10-69%
4165-62-2	Phenol-d5	23%		10-52%
118-79-6	2,4,6-Tribromophenol	82%		32-134%
4165-60-0	Nitrobenzene-d5	66%		23-116%
321-60-8	2-Fluorobiphenyl	58%		28-109%
1718-51-0	Terphenyl-d14	69%		24-125%

(a) Sample received outside the holding time.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-1		
Lab Sample ID:	J97892-2	**Date Sampled:**	08/02/08
Matrix:	AQ - Ground Water	**Date Received:**	08/13/08
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV59308.D	1	08/15/08	JMC	n/a	n/a	GUV2618
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	90%		51-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-1		
Lab Sample ID:	J97892-2	**Date Sampled:**	08/02/08
Matrix:	AQ - Ground Water	**Date Received:**	08/13/08
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AB76005.D	1	08/23/08	JSE	08/14/08	OP34148	GAB5091
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.094	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.47	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.16	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	76%		23-131%
877-09-8	Tetrachloro-m-xylene	81%		23-131%
2051-24-3	Decachlorobiphenyl	81%		12-139%
2051-24-3	Decachlorobiphenyl	77%		12-139%

(a) Sample received outside the holding time.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-1		
Lab Sample ID:	J97892-2	**Date Sampled:**	08/02/08
Matrix:	AQ - Ground Water	**Date Received:**	08/13/08
Method:	SW846-8015 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	3Z7638.D	1	08/15/08	PM	08/14/08	OP34208	G3Z252
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.10	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		31-132%
16416-32-3	Tetracosane-d50	91%		26-139%
438-22-2	5a-Androstane	63%		26-133%

(a) Sample received outside the holding time.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: GP-1
Lab Sample ID: J97892-2
Matrix: AQ - Ground Water
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/02/08
Date Received: 08/13/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Arsenic	7.1	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Chromium	103	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Copper	44.3	25	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Lead	23.4	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/25/08	08/25/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Zinc	41.1	20	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21348
(2) Instrument QC Batch: MA21359
(3) Prep QC Batch: MP44893
(4) Prep QC Batch: MP44948

RL = Reporting Limit

Report of Analysis

Client Sample ID: GP-1
Lab Sample ID: J97892-2F
Matrix: AQ - Groundwater Filtered
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/02/08
Date Received: 08/13/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/25/08	08/25/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21348
(2) Instrument QC Batch: MA21359
(3) Prep QC Batch: MP44893
(4) Prep QC Batch: MP44948

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST

CHAIN OF CUSTODY

2235 Us Highway 130, Dayton, NJ 08810
(732) 329-0200 Fax: (732) 329-3499

SO GW

Accutest Job #: J97892

Client Information

Consultants Name: Kleinfelder East Inc.
Address: One Corporate Drive, Suite 201
City: Bohemia State: NY Zip: 11716
Project Contact: Edward N. Savarese
Phone #: 631-218-0612
Fax #: 631-218-0787
AFE#

Facility Information

Project Name: Lighthouse Project
Street: 1255 Hempstead Tpke
City: Uniondale State: NY
Invoice Contact: Kleinfelder
Invoice Phone #: 631 218 0612
Location ID#: Lighthouse
PO#: 08540-49315

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation: HCL	NaOH	HNO3	H2SO4	MEOH	Other	None	EPA Method 8260 (PPTCL)+TAGM+STARS	EPA Method 8270 (PPTCL)+TAGM+STARS	PP metlas (EPA Method 6010/7471)	PP metlas (EPA Method 6010/7471) DISOLVED	TPH EPA Method 8015 (DRO/GRO)	PCB EPA Method 8082
GP-1 (25-28') -1	8/2/08	1026	SM	SO	5							X	X	X	X		X	X
GP-1 -2F	8/2/08	1054	SM	GW	14	X		X				X	X	X	X	X	X	X

Turnaround Information

- [X] 10 Day Turnaround — Approved By:
- [ ] 7 Day EMERGENCY
- [ ] 4 Day EMERGENCY
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- [■] Commercial "A"
- [ ] Commercial "B"
- [ ] Full Deliverables
- [ ] Other
- [ ] FULL CLP
- [ ] State Forms
- [ ] Disk Deliverable Format____

Commercial "A" = Results Only

Accutest Log-in Information

EX47, 19K5, 899V, AMET4, EX30

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
	8/8/08 1450	1 FEDEX	2 FEDEX	8/8/08 9:30	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal #	Preserve where applicable	On Ice: Temp. 4.2°C

1A

J97892: Chain of Custody
Page 1 of 2

Job Change Order: J97892_8/19/2008

Requested Date:	8/19/2008	**Received Date:**	8/13/2008
Account Name:	Kleinfelder	**Due Date:**	9/3/2008
Project Description: COMMA	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY	**Deliverable:**	
CSR:	TE	**TAT (Days):**	14

Sample #:
J97892-all

Change: Change the TAT to 14 days, make the due date 8/28

J97892: Chain of Custody
Page 2 of 2

Above Changes Edward Savarese **Date:** 8/19/2008

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Page 1 of 1

Technical Report for

Kleinfelder

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

PO#08540-49315

Accutest Job Number: J97711

Sampling Date: 08/08/08

Report to:

Kleinfelder

mpagotto@kleinfelder.com

ATTN: Melody Pagotto

Total number of pages in report: **26**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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ACCUTEST LABORATORIES 50 YEARS 1956-2006

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Sample Summary

Kleinfelder

Job No: J97711

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY
Project No: PO#08540-49315

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J97711-1	08/08/08	11:17	AW	08/09/08	AQ	Ground Water	WELL 8944
J97711-1F	08/08/08	11:17	AW	08/09/08	AQ	Groundwater Filtered	WELL 8944
J97711-2	08/08/08	13:00	AW	08/09/08	AQ	Ground Water	MW 8943
J97711-2F	08/08/08	13:00	AW	08/09/08	AQ	Groundwater Filtered	MW 8943

Sample Results

Report of Analysis

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: WELL 8944
Lab Sample ID: J97711-1 **Date Sampled:** 08/08/08
Matrix: AQ - Ground Water **Date Received:** 08/09/08
Method: SW846 8260B **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X82458.D	1	08/15/08	YXC	n/a	n/a	VX3404
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL 8944		
Lab Sample ID:	J97711-1	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		72-120%
17060-07-0	1,2-Dichloroethane-D4	99%		59-137%
2037-26-5	Toluene-D8	106%		73-116%
460-00-4	4-Bromofluorobenzene	90%		69-126%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL 8944		
Lab Sample ID:	J97711-1	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R68306.D	1	08/13/08	OYA	08/11/08	OP34158	ER2508
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN PPL/TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	1.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	4.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	1.2	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.4	ug/l	
	3&4-Methylphenol	ND	2.0	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	2.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.6	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.38	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.54	ug/l	
120-12-7	Anthracene	ND	2.0	0.42	ug/l	
92-87-5	Benzidine	ND	20	8.0	ug/l	
56-55-3	Benzo(a)anthracene	0.65	2.0	0.38	ug/l	J
50-32-8	Benzo(a)pyrene	1.1	2.0	0.48	ug/l	J
205-99-2	Benzo(b)fluoranthene	0.91	2.0	0.53	ug/l	J
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.46	ug/l	
207-08-9	Benzo(k)fluoranthene	0.92	2.0	0.57	ug/l	J
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.41	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.33	ug/l	
86-74-8	Carbazole	ND	2.0	0.45	ug/l	
218-01-9	Chrysene	1.1	2.0	0.44	ug/l	J
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.52	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.54	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL 8944		
Lab Sample ID:	J97711-1	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN PPL/TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.45	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.35	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	2.0	0.52	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.33	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	4.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.45	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.50	ug/l	
84-66-2	Diethyl phthalate	6.7	2.0	0.36	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	3.9	2.0	0.75	ug/l	
206-44-0	Fluoranthene	2.2	2.0	0.40	ug/l	
86-73-7	Fluorene	ND	2.0	0.40	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	0.45	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.38	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	4.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	0.42	ug/l	
78-59-1	Isophorone	ND	2.0	0.69	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.45	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.45	ug/l	
91-20-3	Naphthalene	ND	2.0	0.32	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.66	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.36	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.39	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	1.3	2.0	0.34	ug/l	J
129-00-0	Pyrene	1.4	2.0	0.48	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		10-69%
4165-62-2	Phenol-d5	34%		10-52%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL 8944		
Lab Sample ID:	J97711-1	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN PPL/TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	86%		32-134%
4165-60-0	Nitrobenzene-d5	56%		23-116%
321-60-8	2-Fluorobiphenyl	59%		28-109%
1718-51-0	Terphenyl-d14	83%		24-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	WELL 8944		
Lab Sample ID:	J97711-1	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV59264.D	1	08/13/08	JMC	n/a	n/a	GUV2615
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	90%		51-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	WELL 8944		
Lab Sample ID:	J97711-1	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G31053.D	1	08/14/08	OPM	08/11/08	OP34148	G2G1214
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.094	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.47	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.16	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		23-131%
877-09-8	Tetrachloro-m-xylene	90%		23-131%
2051-24-3	Decachlorobiphenyl	86%		12-139%
2051-24-3	Decachlorobiphenyl	87%		12-139%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: WELL 8944
Lab Sample ID: J97711-1 **Date Sampled:** 08/08/08
Matrix: AQ - Ground Water **Date Received:** 08/09/08
Method: SW846-8015 SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Z7566.D	1	08/12/08	PM	08/11/08	OP34088	G3Z249
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.200	0.10	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		31-132%
16416-32-3	Tetracosane-d50	91%		26-139%
438-22-2	5a-Androstane	74%		26-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: WELL 8944
Lab Sample ID: J97711-1
Matrix: AQ - Ground Water
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/08/08
Date Received: 08/09/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Arsenic	4.2	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Cadmium	7.4	4.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Chromium	16.8	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Copper	25.7	25	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Lead	273	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/20/08	08/20/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Zinc	15900	20	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21341
(2) Instrument QC Batch: MA21342
(3) Prep QC Batch: MP44881
(4) Prep QC Batch: MP44892

RL = Reporting Limit

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Report of Analysis

Client Sample ID: WELL 8944
Lab Sample ID: J97711-1F
Matrix: AQ - Groundwater Filtered
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/08/08
Date Received: 08/09/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Cadmium	8.2	4.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Lead	6.9	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/20/08	08/20/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Zinc	6980	20	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21341
(2) Instrument QC Batch: MA21342
(3) Prep QC Batch: MP44881
(4) Prep QC Batch: MP44892

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW 8943		
Lab Sample ID:	J97711-2	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X82459.D	1	08/15/08	YXC	n/a	n/a	VX3404
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 8943		
Lab Sample ID:	J97711-2	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		72-120%
17060-07-0	1,2-Dichloroethane-D4	103%		59-137%
2037-26-5	Toluene-D8	107%		73-116%
460-00-4	4-Bromofluorobenzene	91%		69-126%

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: MW 8943
Lab Sample ID: J97711-2 **Date Sampled:** 08/08/08
Matrix: AQ - Ground Water **Date Received:** 08/09/08
Method: SW846 8270C SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R68307.D	1	08/13/08	OYA	08/11/08	OP34158	ER2508
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN PPL/TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	1.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	4.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	1.2	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.4	ug/l	
	3&4-Methylphenol	ND	2.0	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	2.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.6	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.38	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.54	ug/l	
120-12-7	Anthracene	ND	2.0	0.42	ug/l	
92-87-5	Benzidine	ND	20	8.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.38	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.53	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.46	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.57	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.41	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.33	ug/l	
86-74-8	Carbazole	ND	2.0	0.45	ug/l	
218-01-9	Chrysene	ND	2.0	0.44	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.52	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.54	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 8943		
Lab Sample ID:	J97711-2	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN PPL/TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.45	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.35	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	2.0	0.52	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.33	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	4.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.45	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.50	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.36	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	8.2	2.0	0.75	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.40	ug/l	
86-73-7	Fluorene	ND	2.0	0.40	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	0.45	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.38	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	4.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	0.42	ug/l	
78-59-1	Isophorone	ND	2.0	0.69	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.45	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.45	ug/l	
91-20-3	Naphthalene	ND	2.0	0.32	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.66	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.36	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.39	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.34	ug/l	
129-00-0	Pyrene	ND	2.0	0.48	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		10-69%
4165-62-2	Phenol-d5	21%		10-52%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 8943		
Lab Sample ID:	J97711-2	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN PPL/TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	88%		32-134%
4165-60-0	Nitrobenzene-d5	47%		23-116%
321-60-8	2-Fluorobiphenyl	48%		28-109%
1718-51-0	Terphenyl-d14	76%		24-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID:	MW 8943		
Lab Sample ID:	J97711-2	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV59267.D	1	08/13/08	JMC	n/a	n/a	GUV2615
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	89%		51-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 8943		
Lab Sample ID:	J97711-2	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G31054.D	1	08/14/08	OPM	08/11/08	OP34148	G2G1214
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.094	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.47	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.16	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	104%		23-131%
877-09-8	Tetrachloro-m-xylene	78%		23-131%
2051-24-3	Decachlorobiphenyl	25%		12-139%
2051-24-3	Decachlorobiphenyl	29%		12-139%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: MW 8943
Lab Sample ID: J97711-2 **Date Sampled:** 08/08/08
Matrix: AQ - Ground Water **Date Received:** 08/09/08
Method: SW846-8015 SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Z7567.D	1	08/12/08	PM	08/11/08	OP34088	G3Z249
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.294	0.10	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	70%		31-132%
16416-32-3	Tetracosane-d50	81%		26-139%
438-22-2	5a-Androstane	66%		26-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: MW 8943
Lab Sample ID: J97711-2
Matrix: AQ - Ground Water
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/08/08
Date Received: 08/09/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Chromium	18.8	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Lead	112	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/20/08	08/20/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Zinc	188	20	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21341
(2) Instrument QC Batch: MA21342
(3) Prep QC Batch: MP44881
(4) Prep QC Batch: MP44892

RL = Reporting Limit

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: MW 8943
Lab Sample ID: J97711-2F
Matrix: AQ - Groundwater Filtered
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/08/08
Date Received: 08/09/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/20/08	08/20/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21341
(2) Instrument QC Batch: MA21342
(3) Prep QC Batch: MP44881
(4) Prep QC Batch: MP44892

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST

2235 Us Highway 130, Dayton, NJ 08810
(732) 329-0200 Fax: (732) 329-3499

GW

Accutest Job #: J97711

Client Information			Facility Information		
Consultants Name	Kleinfelder East Inc.		Project Name	Lighthouse Project	
Address	One Corporate Drive, Suite 201		Street	1255 Hempstead Tpke	
City	State	Zip	City	State	
Bohemia	NY	11716	Uniondale	NY	
Project Contact:	Andy Winslow		Invoice Contact:	Kleinfelder	
Phone #:	631-218-0612		Invoice Phone #	631 218 0612	
Fax #:	631-218-0787		Location ID#	Lighthouse	
AFE#			PO#	08540-49315	

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2So4	MEOH	Other	None	EPA Method 8260 (PPTCL) + MTBE	EPA Method 8270 (PPTCL)	PP metlas (EPA Method 6010/7471)	PP metlas (EPA Method 6010/7471) DISOLVED	TPH EPA Method 8015 (DRO/GRO)	PCB EPA Method 8082
1F Well 8944	8/8/08	1117	AW	GW	14	x		x				x	x	X	X	X	X	X
2F MW 8943	8/8/08	1300	AW	GW	14	x		x				x	x	X	X	X	X	X

Analytical Information

Turnaround Information

- [X] 10 Day Turnaround — Approved By:
- [ ] 7 Day *EMERGENCY*
- [ ] 4 Day *EMERGENCY*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- [■] Commercial "A"
- [ ] Commercial "B"
- [ ] Full Deliverables
- [ ] Other
- [ ] FULL CLP
- [ ] State Forms
- [ ] Disk Deliverable Format____

Commercial "A" = Results Only

Accutest Log-in Information

EX 11
AMET 14,
830

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
Andy Winslow	8/8/2008 1600	1 FedX	2 FedX	8/8/08 1000	2 M Caffins
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by Sampler:	Date Time:	Received By:	Seal #	Preserve where applicable	On Ice	Temp.
5		5	dont int	(N/A)	☑	4.4, 4.6°C

4

J97711: Chain of Custody
Page 1 of 1

Technical Report for

Kleinfelder

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

PO#08540-49315

Accutest Job Number: J97711

Sampling Date: 08/08/08

Report to:

Kleinfelder

mpagotto@kleinfelder.com

ATTN: Melody Pagotto

Total number of pages in report: **26**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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ACCUTEST LABORATORIES 50 YEARS 1956-2006

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Sample Summary

Kleinfelder

Job No: J97711

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY
Project No: PO#08540-49315

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J97711-1	08/08/08	11:17	AW	08/09/08	AQ	Ground Water	WELL 8944
J97711-1F	08/08/08	11:17	AW	08/09/08	AQ	Groundwater Filtered	WELL 8944
J97711-2	08/08/08	13:00	AW	08/09/08	AQ	Ground Water	MW 8943
J97711-2F	08/08/08	13:00	AW	08/09/08	AQ	Groundwater Filtered	MW 8943

Sample Results

Report of Analysis

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: WELL 8944
Lab Sample ID: J97711-1 **Date Sampled:** 08/08/08
Matrix: AQ - Ground Water **Date Received:** 08/09/08
Method: SW846 8260B **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X82458.D	1	08/15/08	YXC	n/a	n/a	VX3404
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL 8944		
Lab Sample ID:	J97711-1	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		72-120%
17060-07-0	1,2-Dichloroethane-D4	99%		59-137%
2037-26-5	Toluene-D8	106%		73-116%
460-00-4	4-Bromofluorobenzene	90%		69-126%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL 8944		
Lab Sample ID:	J97711-1	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R68306.D	1	08/13/08	OYA	08/11/08	OP34158	ER2508
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN PPL/TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	1.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	4.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	1.2	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.4	ug/l	
	3&4-Methylphenol	ND	2.0	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	2.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.6	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.38	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.54	ug/l	
120-12-7	Anthracene	ND	2.0	0.42	ug/l	
92-87-5	Benzidine	ND	20	8.0	ug/l	
56-55-3	Benzo(a)anthracene	0.65	2.0	0.38	ug/l	J
50-32-8	Benzo(a)pyrene	1.1	2.0	0.48	ug/l	J
205-99-2	Benzo(b)fluoranthene	0.91	2.0	0.53	ug/l	J
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.46	ug/l	
207-08-9	Benzo(k)fluoranthene	0.92	2.0	0.57	ug/l	J
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.41	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.33	ug/l	
86-74-8	Carbazole	ND	2.0	0.45	ug/l	
218-01-9	Chrysene	1.1	2.0	0.44	ug/l	J
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.52	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.54	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL 8944		
Lab Sample ID:	J97711-1	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN PPL/TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.45	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.35	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	2.0	0.52	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.33	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	4.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.45	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.50	ug/l	
84-66-2	Diethyl phthalate	6.7	2.0	0.36	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	3.9	2.0	0.75	ug/l	
206-44-0	Fluoranthene	2.2	2.0	0.40	ug/l	
86-73-7	Fluorene	ND	2.0	0.40	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	0.45	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.38	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	4.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	0.42	ug/l	
78-59-1	Isophorone	ND	2.0	0.69	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.45	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.45	ug/l	
91-20-3	Naphthalene	ND	2.0	0.32	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.66	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.36	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.39	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	1.3	2.0	0.34	ug/l	J
129-00-0	Pyrene	1.4	2.0	0.48	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		10-69%
4165-62-2	Phenol-d5	34%		10-52%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL 8944		
Lab Sample ID:	J97711-1	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN PPL/TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	86%		32-134%
4165-60-0	Nitrobenzene-d5	56%		23-116%
321-60-8	2-Fluorobiphenyl	59%		28-109%
1718-51-0	Terphenyl-d14	83%		24-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	WELL 8944		
Lab Sample ID:	J97711-1	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV59264.D	1	08/13/08	JMC	n/a	n/a	GUV2615
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	90%		51-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	WELL 8944		
Lab Sample ID:	J97711-1	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G31053.D	1	08/14/08	OPM	08/11/08	OP34148	G2G1214
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.094	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.47	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.16	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		23-131%
877-09-8	Tetrachloro-m-xylene	90%		23-131%
2051-24-3	Decachlorobiphenyl	86%		12-139%
2051-24-3	Decachlorobiphenyl	87%		12-139%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: WELL 8944
Lab Sample ID: J97711-1 **Date Sampled:** 08/08/08
Matrix: AQ - Ground Water **Date Received:** 08/09/08
Method: SW846-8015 SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Z7566.D	1	08/12/08	PM	08/11/08	OP34088	G3Z249
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.200	0.10	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		31-132%
16416-32-3	Tetracosane-d50	91%		26-139%
438-22-2	5a-Androstane	74%		26-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: WELL 8944
Lab Sample ID: J97711-1
Matrix: AQ - Ground Water
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/08/08
Date Received: 08/09/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Arsenic	4.2	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Cadmium	7.4	4.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Chromium	16.8	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Copper	25.7	25	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Lead	273	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/20/08	08/20/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Zinc	15900	20	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21341
(2) Instrument QC Batch: MA21342
(3) Prep QC Batch: MP44881
(4) Prep QC Batch: MP44892

RL = Reporting Limit

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Report of Analysis

Client Sample ID: WELL 8944
Lab Sample ID: J97711-1F
Matrix: AQ - Groundwater Filtered
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/08/08
Date Received: 08/09/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Cadmium	8.2	4.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Lead	6.9	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/20/08	08/20/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Zinc	6980	20	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21341
(2) Instrument QC Batch: MA21342
(3) Prep QC Batch: MP44881
(4) Prep QC Batch: MP44892

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW 8943		
Lab Sample ID:	J97711-2	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X82459.D	1	08/15/08	YXC	n/a	n/a	VX3404
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 8943		
Lab Sample ID:	J97711-2	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		72-120%
17060-07-0	1,2-Dichloroethane-D4	103%		59-137%
2037-26-5	Toluene-D8	107%		73-116%
460-00-4	4-Bromofluorobenzene	91%		69-126%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: MW 8943
Lab Sample ID: J97711-2 **Date Sampled:** 08/08/08
Matrix: AQ - Ground Water **Date Received:** 08/09/08
Method: SW846 8270C SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R68307.D	1	08/13/08	OYA	08/11/08	OP34158	ER2508
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN PPL/TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	1.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	4.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	1.2	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.4	ug/l	
	3&4-Methylphenol	ND	2.0	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	2.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.6	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.38	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.54	ug/l	
120-12-7	Anthracene	ND	2.0	0.42	ug/l	
92-87-5	Benzidine	ND	20	8.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.38	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.53	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.46	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.57	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.41	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.33	ug/l	
86-74-8	Carbazole	ND	2.0	0.45	ug/l	
218-01-9	Chrysene	ND	2.0	0.44	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.52	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.54	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 8943		
Lab Sample ID:	J97711-2	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN PPL/TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.45	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.35	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	2.0	0.52	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.33	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	4.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.45	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.50	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.36	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	8.2	2.0	0.75	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.40	ug/l	
86-73-7	Fluorene	ND	2.0	0.40	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	0.45	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.38	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	4.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	0.42	ug/l	
78-59-1	Isophorone	ND	2.0	0.69	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.45	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.45	ug/l	
91-20-3	Naphthalene	ND	2.0	0.32	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.66	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.36	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.39	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.34	ug/l	
129-00-0	Pyrene	ND	2.0	0.48	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		10-69%
4165-62-2	Phenol-d5	21%		10-52%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 8943		
Lab Sample ID:	J97711-2	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN PPL/TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	88%		32-134%
4165-60-0	Nitrobenzene-d5	47%		23-116%
321-60-8	2-Fluorobiphenyl	48%		28-109%
1718-51-0	Terphenyl-d14	76%		24-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID:	MW 8943		
Lab Sample ID:	J97711-2	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV59267.D	1	08/13/08	JMC	n/a	n/a	GUV2615
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	89%		51-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 8943		
Lab Sample ID:	J97711-2	**Date Sampled:**	08/08/08
Matrix:	AQ - Ground Water	**Date Received:**	08/09/08
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G31054.D	1	08/14/08	OPM	08/11/08	OP34148	G2G1214
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.094	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.47	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.16	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	104%		23-131%
877-09-8	Tetrachloro-m-xylene	78%		23-131%
2051-24-3	Decachlorobiphenyl	25%		12-139%
2051-24-3	Decachlorobiphenyl	29%		12-139%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: MW 8943
Lab Sample ID: J97711-2 **Date Sampled:** 08/08/08
Matrix: AQ - Ground Water **Date Received:** 08/09/08
Method: SW846-8015 SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Z7567.D	1	08/12/08	PM	08/11/08	OP34088	G3Z249
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.294	0.10	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	70%		31-132%
16416-32-3	Tetracosane-d50	81%		26-139%
438-22-2	5a-Androstane	66%		26-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: MW 8943
Lab Sample ID: J97711-2
Matrix: AQ - Ground Water
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/08/08
Date Received: 08/09/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Chromium	18.8	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Lead	112	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/20/08	08/20/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Zinc	188	20	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21341
(2) Instrument QC Batch: MA21342
(3) Prep QC Batch: MP44881
(4) Prep QC Batch: MP44892

RL = Reporting Limit

Accutest LabLink@461956 11:14 08-Sep-2008

Report of Analysis

Client Sample ID: MW 8943
Lab Sample ID: J97711-2F
Matrix: AQ - Groundwater Filtered
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/08/08
Date Received: 08/09/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/20/08	08/20/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21341
(2) Instrument QC Batch: MA21342
(3) Prep QC Batch: MP44881
(4) Prep QC Batch: MP44892

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST

2235 Us Highway 130, Dayton, NJ 08810
(732) 329-0200 Fax: (732) 329-3499

GW

Accutest Job #: J97711

Client Information			Facility Information		
Consultants Name	Kleinfelder East Inc.		Project Name	Lighthouse Project	
Address	One Corporate Drive, Suite 201		Street	1255 Hempstead Tpke	
City	State	Zip	City	State	
Bohemia	NY	11716	Uniondale	NY	
Project Contact:	Andy Winslow		Invoice Contact:	Kleinfelder	
Phone #:	631-218-0612		Invoice Phone #	631 218 0612	
Fax #:	631-218-0787		Location ID#	Lighthouse	
AFE#			PO#	08540-49315	

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2So4	MEOH	Other	None	EPA Method 8260 (PPTCL) + MTBE	EPA Method 8270 (PPTCL)	PP metlas (EPA Method 6010/7471)	PP metlas (EPA Method 6010/7471) DISOLVED	TPH EPA Method 8015 (DRO/GRO)	PCB EPA Method 8082
1F Well 8944	8/8/08	1117	AW	GW	14	x		x				x	x	X	X	X	X	X
2F MW 8943	8/8/08	1300	AW	GW	14	x		x				x	x	X	X	X	X	X

Analytical Information

Turnaround Information

- [X] 10 Day Turnaround — Approved By:
- [ ] 7 Day *EMERGENCY*
- [ ] 4 Day *EMERGENCY*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- [■] Commercial "A"
- [ ] Commercial "B"
- [ ] Full Deliverables
- [ ] Other
- [ ] FULL CLP
- [ ] State Forms
- [ ] Disk Deliverable Format____

Commercial "A" = Results Only

Accutest Log-in Information

EX 11
AMET 14,
830

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
Andy Winslow	8/8/2008 1600	1 FedX	2 FedX	8/8/08 1000	2 M Caffins
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by Sampler:	Date Time:	Received By:	Seal #	Preserve where applicable	On Ice	Temp.
5		5	dont int	(N/A)	☑	4.4, 4.6°C

4

J97711: Chain of Custody
Page 1 of 1

Technical Report for

Kleinfelder

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

08540-49315

Accutest Job Number: J98159

Sampling Date: 08/13/08

Report to:

Kleinfelder

mpagotto@kleinfelder.com

ATTN: Melody Pagotto

Total number of pages in report: **31**

ACCUTEST LABORATORIES 50 YEARS 1956-2006

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Sample Summary

Kleinfelder

Job No: J98159

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY
Project No: 08540-49315

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J98159-1	08/13/08	11:23	SM	08/15/08	SO	Soil	GP-2 (15-20)
J98159-2	08/13/08	11:55	SM	08/15/08	SO	Soil	GP-2 (25-28)
J98159-3	08/13/08	15:05	SM	08/15/08	SO	Soil	GP-5 (25-28)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	GP-2 (15-20)		
Lab Sample ID:	J98159-1	**Date Sampled:**	08/13/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8260B	**Percent Solids:**	97.3
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G112945.D	1	08/20/08	SJM	n/a	n/a	VG5449
Run #2							

	Initial Weight
Run #1	4.6 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	2.4	ug/kg	
107-02-8	Acrolein	ND	56	12	ug/kg	
107-13-1	Acrylonitrile	ND	56	1.5	ug/kg	
71-43-2	Benzene	ND	1.1	0.39	ug/kg	
75-27-4	Bromodichloromethane	ND	5.6	0.29	ug/kg	
75-25-2	Bromoform	ND	5.6	0.37	ug/kg	
74-83-9	Bromomethane	ND	5.6	0.98	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.6	1.9	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.6	0.54	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.6	0.31	ug/kg	
75-15-0	Carbon disulfide	ND	5.6	0.56	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.6	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.6	0.33	ug/kg	
75-00-3	Chloroethane	ND	5.6	0.76	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	28	1.5	ug/kg	
67-66-3	Chloroform	ND	5.6	0.52	ug/kg	
74-87-3	Chloromethane	ND	5.6	0.79	ug/kg	
124-48-1	Dibromochloromethane	ND	5.6	0.30	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.6	0.41	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.6	0.34	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.6	0.35	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.6	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.6	0.44	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.48	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.6	0.58	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.6	0.40	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.6	0.36	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.6	0.44	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.6	0.30	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	0.27	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	0.28	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-2 (15-20)		
Lab Sample ID:	J98159-1	**Date Sampled:**	08/13/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8260B	**Percent Solids:**	97.3
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.1	0.45	ug/kg	
76-13-1	Freon 113	ND	5.6	1.2	ug/kg	
591-78-6	2-Hexanone	ND	5.6	2.1	ug/kg	
98-82-8	Isopropylbenzene	ND	5.6	0.50	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.6	0.56	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.40	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.6	2.7	ug/kg	
75-09-2	Methylene chloride	ND	5.6	0.33	ug/kg	
91-20-3	Naphthalene	ND	5.6	0.54	ug/kg	
103-65-1	n-Propylbenzene	ND	5.6	0.54	ug/kg	
100-42-5	Styrene	ND	5.6	0.32	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	0.28	ug/kg	
127-18-4	Tetrachloroethene	ND	5.6	0.52	ug/kg	
108-88-3	Toluene	ND	1.1	0.37	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	0.47	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.6	0.59	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.6	0.28	ug/kg	
79-01-6	Trichloroethene	ND	5.6	0.33	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.6	1.7	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.6	2.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.6	0.27	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.6	0.39	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	0.71	ug/kg	
	m,p-Xylene	ND	2.2	0.74	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.34	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	0.34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		67-125%
17060-07-0	1,2-Dichloroethane-D4	101%		64-131%
2037-26-5	Toluene-D8	110%		73-124%
460-00-4	4-Bromofluorobenzene	99%		61-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GP-2 (15-20)
Lab Sample ID: J98159-1 **Date Sampled:** 08/13/08
Matrix: SO - Soil **Date Received:** 08/15/08
Method: SW846 8270C SW846 3550B **Percent Solids:** 97.3
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P38710.D	1	08/21/08	WG	08/16/08	OP34232	EP1600
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	690	9.7	ug/kg	
95-57-8	2-Chlorophenol	ND	170	28	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	41	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	36	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	42	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	690	370	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	690	36	ug/kg	
95-48-7	2-Methylphenol	ND	69	37	ug/kg	
	3&4-Methylphenol	ND	69	46	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	690	44	ug/kg	
87-86-5	Pentachlorophenol	ND	340	44	ug/kg	
108-95-2	Phenol	ND	69	26	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	46	ug/kg	
83-32-9	Acenaphthene	ND	34	18	ug/kg	
208-96-8	Acenaphthylene	ND	34	15	ug/kg	
62-53-3	Aniline	ND	69	9.1	ug/kg	
120-12-7	Anthracene	ND	34	15	ug/kg	
92-87-5	Benzidine	ND	690	180	ug/kg	
56-55-3	Benzo(a)anthracene	ND	34	21	ug/kg	
50-32-8	Benzo(a)pyrene	ND	34	14	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	34	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	34	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	34	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	69	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	69	17	ug/kg	
91-58-7	2-Chloronaphthalene	ND	69	15	ug/kg	
106-47-8	4-Chloroaniline	ND	170	14	ug/kg	
86-74-8	Carbazole	ND	69	15	ug/kg	
218-01-9	Chrysene	ND	34	16	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	69	17	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-2 (15-20)		
Lab Sample ID:	J98159-1	**Date Sampled:**	08/13/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.3
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	69	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	69	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	69	23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	69	18	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	69	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	69	14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	69	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	69	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	69	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	59	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	16	ug/kg	
132-64-9	Dibenzofuran	ND	69	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	69	21	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	69	15	ug/kg	
84-66-2	Diethyl phthalate	ND	69	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	69	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	49.9	69	18	ug/kg	J
206-44-0	Fluoranthene	ND	34	16	ug/kg	
86-73-7	Fluorene	ND	34	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	69	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	69	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	690	32	ug/kg	
67-72-1	Hexachloroethane	ND	170	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34	13	ug/kg	
78-59-1	Isophorone	ND	69	30	ug/kg	
91-57-6	2-Methylnaphthalene	ND	69	15	ug/kg	
88-74-4	2-Nitroaniline	ND	170	25	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	21	ug/kg	
91-20-3	Naphthalene	ND	34	15	ug/kg	
98-95-3	Nitrobenzene	ND	69	15	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	69	30	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	69	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	23	ug/kg	
85-01-8	Phenanthrene	ND	34	17	ug/kg	
129-00-0	Pyrene	ND	34	15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	69	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-2 (15-20)		
Lab Sample ID:	J98159-1	**Date Sampled:**	08/13/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.3
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	72%		29-114%
4165-62-2	Phenol-d5	74%		31-111%
118-79-6	2,4,6-Tribromophenol	91%		27-133%
4165-60-0	Nitrobenzene-d5	78%		36-116%
321-60-8	2-Fluorobiphenyl	70%		44-111%
1718-51-0	Terphenyl-d14	75%		37-131%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-2 (15-20)		
Lab Sample ID:	J98159-1	**Date Sampled:**	08/13/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8015	**Percent Solids:**	97.3
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF67766.D	1	08/22/08	DCA	n/a	n/a	GPF1445
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	10.0 g	10.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	2.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	98%		42-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: GP-2 (15-20)
Lab Sample ID: J98159-1 **Date Sampled:** 08/13/08
Matrix: SO - Soil **Date Received:** 08/15/08
Method: SW846-8015 SW846 3545 **Percent Solids:** 97.3
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Z7688.D	1	08/19/08	PM	08/16/08	OP34229	G3Z254
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	17.5	6.7	1.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	70%		31-152%
16416-32-3	Tetracosane-d50	83%		34-153%
438-22-2	5a-Androstane	72%		36-151%

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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-2 (15-20)		
Lab Sample ID:	J98159-1	**Date Sampled:**	08/13/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
		Percent Solids:	97.3
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.0	2.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Arsenic	< 2.0	2.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Beryllium	< 0.51	0.51	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Cadmium	< 0.51	0.51	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Chromium	4.8	1.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Copper	4.1	2.5	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Lead	3.0	2.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Mercury	< 0.033	0.033	mg/kg	1	08/27/08	08/27/08	JF	SW846 7471A [2]	SW846 7471A [4]
Nickel	< 4.1	4.1	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Selenium	< 2.0	2.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Silver	< 1.0	1.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Thallium	< 1.0	1.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Zinc	6.2	2.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA21340
(2) Instrument QC Batch: MA21368
(3) Prep QC Batch: MP44880
(4) Prep QC Batch: MP44978

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-2 (25-28)		
Lab Sample ID:	J98159-2	**Date Sampled:**	08/13/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8260B	**Percent Solids:**	95.7
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G113130.D	1	08/25/08	SJM	n/a	n/a	VG5456
Run #2							

	Initial Weight
Run #1	4.1 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	28.2	13	2.7	ug/kg	
107-02-8	Acrolein	ND	64	14	ug/kg	
107-13-1	Acrylonitrile	ND	64	1.7	ug/kg	
71-43-2	Benzene	ND	1.3	0.45	ug/kg	
75-27-4	Bromodichloromethane	ND	6.4	0.33	ug/kg	
75-25-2	Bromoform	ND	6.4	0.43	ug/kg	
74-83-9	Bromomethane	ND	6.4	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	2.8	ug/kg	
104-51-8	n-Butylbenzene	ND	6.4	2.2	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.4	0.62	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.4	0.36	ug/kg	
75-15-0	Carbon disulfide	ND	6.4	0.64	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.4	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	6.4	0.38	ug/kg	
75-00-3	Chloroethane	ND	6.4	0.87	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	32	1.7	ug/kg	
67-66-3	Chloroform	ND	6.4	0.59	ug/kg	
74-87-3	Chloromethane	ND	6.4	0.90	ug/kg	
124-48-1	Dibromochloromethane	ND	6.4	0.34	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.4	0.47	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.4	0.39	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.4	0.40	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.4	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.4	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.55	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.4	0.67	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.4	0.46	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.4	0.41	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.4	0.50	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.4	0.35	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.4	0.31	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.4	0.32	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-2 (25-28)		
Lab Sample ID:	J98159-2	**Date Sampled:**	08/13/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8260B	**Percent Solids:**	95.7
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.3	0.52	ug/kg	
76-13-1	Freon 113	ND	6.4	1.4	ug/kg	
591-78-6	2-Hexanone	ND	6.4	2.4	ug/kg	
98-82-8	Isopropylbenzene	ND	6.4	0.57	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.4	0.64	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.45	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.4	3.0	ug/kg	
75-09-2	Methylene chloride	ND	6.4	0.37	ug/kg	
91-20-3	Naphthalene	ND	6.4	0.61	ug/kg	
103-65-1	n-Propylbenzene	ND	6.4	0.61	ug/kg	
100-42-5	Styrene	ND	6.4	0.37	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.4	0.32	ug/kg	
127-18-4	Tetrachloroethene	ND	6.4	0.59	ug/kg	
108-88-3	Toluene	ND	1.3	0.42	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.4	0.54	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.4	0.67	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.4	0.32	ug/kg	
79-01-6	Trichloroethene	ND	6.4	0.37	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.4	1.9	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.4	2.8	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.4	0.31	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.4	0.44	ug/kg	
75-01-4	Vinyl chloride	ND	6.4	0.81	ug/kg	
	m,p-Xylene	ND	2.5	0.84	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.38	ug/kg	
1330-20-7	Xylene (total)	ND	2.5	0.38	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		67-125%
17060-07-0	1,2-Dichloroethane-D4	89%		64-131%
2037-26-5	Toluene-D8	101%		73-124%
460-00-4	4-Bromofluorobenzene	95%		61-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID: GP-2 (25-28)
Lab Sample ID: J98159-2 **Date Sampled:** 08/13/08
Matrix: SO - Soil **Date Received:** 08/15/08
Method: SW846 8270C SW846 3550B **Percent Solids:** 95.7
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P38711.D	1	08/21/08	WG	08/16/08	OP34232	EP1600
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	690	9.8	ug/kg	
95-57-8	2-Chlorophenol	ND	170	29	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	42	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	36	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	42	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	690	370	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	690	37	ug/kg	
95-48-7	2-Methylphenol	ND	69	37	ug/kg	
	3&4-Methylphenol	ND	69	47	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	690	44	ug/kg	
87-86-5	Pentachlorophenol	ND	350	45	ug/kg	
108-95-2	Phenol	ND	69	26	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	46	ug/kg	
83-32-9	Acenaphthene	ND	35	18	ug/kg	
208-96-8	Acenaphthylene	ND	35	15	ug/kg	
62-53-3	Aniline	ND	69	9.2	ug/kg	
120-12-7	Anthracene	ND	35	16	ug/kg	
92-87-5	Benzidine	ND	690	180	ug/kg	
56-55-3	Benzo(a)anthracene	ND	35	21	ug/kg	
50-32-8	Benzo(a)pyrene	24.6	35	14	ug/kg	J
205-99-2	Benzo(b)fluoranthene	25.0	35	19	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	17.4	35	17	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	35	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	69	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	69	17	ug/kg	
91-58-7	2-Chloronaphthalene	ND	69	15	ug/kg	
106-47-8	4-Chloroaniline	ND	170	14	ug/kg	
86-74-8	Carbazole	ND	69	15	ug/kg	
218-01-9	Chrysene	ND	35	16	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	69	17	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-2 (25-28)		
Lab Sample ID:	J98159-2	**Date Sampled:**	08/13/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	95.7
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	69	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	69	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	69	23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	69	19	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	69	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	69	14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	69	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	69	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	69	16	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	60	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	17	ug/kg	
132-64-9	Dibenzofuran	ND	69	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	69	22	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	69	15	ug/kg	
84-66-2	Diethyl phthalate	ND	69	16	ug/kg	
131-11-3	Dimethyl phthalate	ND	69	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	152	69	18	ug/kg	
206-44-0	Fluoranthene	ND	35	16	ug/kg	
86-73-7	Fluorene	ND	35	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	69	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	69	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	690	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	35	13	ug/kg	
78-59-1	Isophorone	ND	69	30	ug/kg	
91-57-6	2-Methylnaphthalene	42.1	69	16	ug/kg	J
88-74-4	2-Nitroaniline	ND	170	26	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	22	ug/kg	
91-20-3	Naphthalene	15.5	35	15	ug/kg	J
98-95-3	Nitrobenzene	ND	69	16	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	69	30	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	69	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	23	ug/kg	
85-01-8	Phenanthrene	ND	35	17	ug/kg	
129-00-0	Pyrene	36.1	35	15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	69	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-2 (25-28)		
Lab Sample ID:	J98159-2	**Date Sampled:**	08/13/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	95.7
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	75%		29-114%
4165-62-2	Phenol-d5	77%		31-111%
118-79-6	2,4,6-Tribromophenol	82%		27-133%
4165-60-0	Nitrobenzene-d5	84%		36-116%
321-60-8	2-Fluorobiphenyl	71%		44-111%
1718-51-0	Terphenyl-d14	73%		37-131%

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RL = Reporting Limit
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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-2 (25-28)		
Lab Sample ID:	J98159-2	**Date Sampled:**	08/13/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8015	**Percent Solids:**	95.7
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF67846.D	1	08/26/08	DCA	n/a	n/a	GPF1448
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	2.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	101%		42-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID: GP-2 (25-28)
Lab Sample ID: J98159-2 **Date Sampled:** 08/13/08
Matrix: SO - Soil **Date Received:** 08/15/08
Method: SW846-8015 SW846 3545 **Percent Solids:** 95.7
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Z7689.D	1	08/19/08	PM	08/16/08	OP34229	G3Z254
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	71.7	6.8	1.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	47%		31-152%
16416-32-3	Tetracosane-d50	55%		34-153%
438-22-2	5a-Androstane	46%		36-151%

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Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-2 (25-28)		
Lab Sample ID:	J98159-2	**Date Sampled:**	08/13/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
		Percent Solids:	95.7
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.0	2.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Arsenic	< 2.0	2.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Beryllium	< 0.50	0.50	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Cadmium	< 0.50	0.50	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Chromium	15.4	1.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Copper	6.4	2.5	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Lead	5.3	2.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Mercury	< 0.033	0.033	mg/kg	1	08/27/08	08/27/08	JF	SW846 7471A [2]	SW846 7471A [4]
Nickel	< 4.0	4.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Selenium	< 2.0	2.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Silver	< 1.0	1.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Thallium	< 1.0	1.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Zinc	10.0	2.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA21340
(2) Instrument QC Batch: MA21368
(3) Prep QC Batch: MP44880
(4) Prep QC Batch: MP44978

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-5 (25-28)		
Lab Sample ID:	J98159-3	**Date Sampled:**	08/13/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8260B	**Percent Solids:**	95.1
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G113131.D	1	08/25/08	SJM	n/a	n/a	VG5456
Run #2							

	Initial Weight
Run #1	4.5 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	22.6	12	2.5	ug/kg	
107-02-8	Acrolein	ND	58	13	ug/kg	
107-13-1	Acrylonitrile	ND	58	1.6	ug/kg	
71-43-2	Benzene	ND	1.2	0.41	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	0.30	ug/kg	
75-25-2	Bromoform	ND	5.8	0.39	ug/kg	
74-83-9	Bromomethane	ND	5.8	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.6	ug/kg	
104-51-8	n-Butylbenzene	ND	5.8	2.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.8	0.57	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.8	0.33	ug/kg	
75-15-0	Carbon disulfide	ND	5.8	0.59	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.8	1.1	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	0.35	ug/kg	
75-00-3	Chloroethane	ND	5.8	0.79	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	29	1.6	ug/kg	
67-66-3	Chloroform	ND	5.8	0.54	ug/kg	
74-87-3	Chloromethane	ND	5.8	0.83	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	0.31	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.8	0.43	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.8	0.35	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.8	0.37	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.8	1.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	0.46	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.50	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.8	0.61	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.8	0.42	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.8	0.38	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	0.46	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.8	0.32	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	0.28	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	0.29	ug/kg	

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Report of Analysis

Client Sample ID:	GP-5 (25-28)		
Lab Sample ID:	J98159-3	**Date Sampled:**	08/13/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8260B	**Percent Solids:**	95.1
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.2	0.47	ug/kg	
76-13-1	Freon 113	ND	5.8	1.3	ug/kg	
591-78-6	2-Hexanone	ND	5.8	2.2	ug/kg	
98-82-8	Isopropylbenzene	ND	5.8	0.52	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.8	0.58	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.41	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.8	2.8	ug/kg	
75-09-2	Methylene chloride	ND	5.8	0.34	ug/kg	
91-20-3	Naphthalene	ND	5.8	0.56	ug/kg	
103-65-1	n-Propylbenzene	ND	5.8	0.56	ug/kg	
100-42-5	Styrene	ND	5.8	0.34	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	0.30	ug/kg	
127-18-4	Tetrachloroethene	ND	5.8	0.54	ug/kg	
108-88-3	Toluene	ND	1.2	0.38	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.8	0.49	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.8	0.62	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	0.30	ug/kg	
79-01-6	Trichloroethene	ND	5.8	0.34	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.8	1.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.8	2.6	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.8	0.28	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.8	0.41	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	0.74	ug/kg	
	m,p-Xylene	ND	2.3	0.77	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.35	ug/kg	
1330-20-7	Xylene (total)	ND	2.3	0.35	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		67-125%
17060-07-0	1,2-Dichloroethane-D4	90%		64-131%
2037-26-5	Toluene-D8	101%		73-124%
460-00-4	4-Bromofluorobenzene	93%		61-136%

ND = Not detected MDL - Method Detection Limit
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Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID: GP-5 (25-28)
Lab Sample ID: J98159-3 **Date Sampled:** 08/13/08
Matrix: SO - Soil **Date Received:** 08/15/08
Method: SW846 8270C SW846 3550B **Percent Solids:** 95.1
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P38712.D	1	08/21/08	WG	08/16/08	OP34232	EP1600
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	700	9.9	ug/kg	
95-57-8	2-Chlorophenol	ND	170	29	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	42	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	36	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	42	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	700	380	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	700	37	ug/kg	
95-48-7	2-Methylphenol	ND	70	38	ug/kg	
	3&4-Methylphenol	ND	70	47	ug/kg	
88-75-5	2-Nitrophenol	ND	170	37	ug/kg	
100-02-7	4-Nitrophenol	ND	700	45	ug/kg	
87-86-5	Pentachlorophenol	ND	350	45	ug/kg	
108-95-2	Phenol	ND	70	26	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	38	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	46	ug/kg	
83-32-9	Acenaphthene	19.7	35	18	ug/kg	J
208-96-8	Acenaphthylene	ND	35	15	ug/kg	
62-53-3	Aniline	ND	70	9.2	ug/kg	
120-12-7	Anthracene	ND	35	16	ug/kg	
92-87-5	Benzidine	ND	700	180	ug/kg	
56-55-3	Benzo(a)anthracene	ND	35	21	ug/kg	
50-32-8	Benzo(a)pyrene	35.5	35	14	ug/kg	
205-99-2	Benzo(b)fluoranthene	35.4	35	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	24.6	35	17	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	35	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	70	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	70	17	ug/kg	
91-58-7	2-Chloronaphthalene	ND	70	15	ug/kg	
106-47-8	4-Chloroaniline	ND	170	14	ug/kg	
86-74-8	Carbazole	ND	70	15	ug/kg	
218-01-9	Chrysene	33.4	35	16	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	70	17	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-5 (25-28)		
Lab Sample ID:	J98159-3	**Date Sampled:**	08/13/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	95.1
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	70	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	70	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	70	23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	70	19	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	70	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	70	14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	70	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	70	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	70	16	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	60	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	17	ug/kg	
132-64-9	Dibenzofuran	ND	70	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	70	22	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	70	15	ug/kg	
84-66-2	Diethyl phthalate	ND	70	16	ug/kg	
131-11-3	Dimethyl phthalate	ND	70	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	274	70	18	ug/kg	
206-44-0	Fluoranthene	ND	35	16	ug/kg	
86-73-7	Fluorene	19.9	35	16	ug/kg	J
118-74-1	Hexachlorobenzene	ND	70	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	70	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	700	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	35	13	ug/kg	
78-59-1	Isophorone	ND	70	31	ug/kg	
91-57-6	2-Methylnaphthalene	62.5	70	16	ug/kg	J
88-74-4	2-Nitroaniline	ND	170	26	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	22	ug/kg	
91-20-3	Naphthalene	25.9	35	15	ug/kg	J
98-95-3	Nitrobenzene	ND	70	16	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	70	31	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	70	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	24	ug/kg	
85-01-8	Phenanthrene	52.3	35	17	ug/kg	
129-00-0	Pyrene	82.8	35	15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	70	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-5 (25-28)		
Lab Sample ID:	J98159-3	**Date Sampled:**	08/13/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	95.1
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	75%		29-114%
4165-62-2	Phenol-d5	77%		31-111%
118-79-6	2,4,6-Tribromophenol	83%		27-133%
4165-60-0	Nitrobenzene-d5	84%		36-116%
321-60-8	2-Fluorobiphenyl	69%		44-111%
1718-51-0	Terphenyl-d14	70%		37-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-5 (25-28)		
Lab Sample ID:	J98159-3	**Date Sampled:**	08/13/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8015	**Percent Solids:**	95.1
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF67776.D	1	08/22/08	DCA	n/a	n/a	GPF1445
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.4 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	2.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	97%		42-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID: GP-5 (25-28)
Lab Sample ID: J98159-3 **Date Sampled:** 08/13/08
Matrix: SO - Soil **Date Received:** 08/15/08
Method: SW846-8015 SW846 3545 **Percent Solids:** 95.1
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Z7690.D	1	08/19/08	PM	08/16/08	OP34229	G3Z254
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	124	7.0	1.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		31-152%
16416-32-3	Tetracosane-d50	83%		34-153%
438-22-2	5a-Androstane	70%		36-151%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID: GP-5 (25-28)
Lab Sample ID: J98159-3
Matrix: SO - Soil
Date Sampled: 08/13/08
Date Received: 08/15/08
Percent Solids: 95.1
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.0	2.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Arsenic	< 2.0	2.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Beryllium	< 0.51	0.51	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Cadmium	< 0.51	0.51	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Chromium	24.4	1.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Copper	9.9	2.6	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Lead	5.7	2.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Mercury	0.041	0.033	mg/kg	1	08/27/08	08/27/08	JF	SW846 7471A [2]	SW846 7471A [4]
Nickel	6.1	4.1	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Selenium	< 2.0	2.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Silver	< 1.0	1.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Thallium	< 1.0	1.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Zinc	14.5	2.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA21340
(2) Instrument QC Batch: MA21368
(3) Prep QC Batch: MP44880
(4) Prep QC Batch: MP44978

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST
30

CHAIN OF CUSTODY

2235 Us Highway 130, Dayton, NJ 08810
(732) 329-0200 Fax: (732) 329-3499

Accutest Job #: J98159

Client Information			Facility Information		
Consultants Name: Kleinfelder East Inc.			Project Name: Lighthouse Project		
Address: One Corporate Drive, Suite 201			Street: 1255 Hempstead Tpke		
City: Bohemia	State: NY	Zip: 11716	City: Uniondale	State: NY	
Project Contact: Edward N. Savarese			Invoice Contact: Kleinfelder		
Phone #: 631-218-0612			Invoice Phone #: 631 218 0612		
Fax #: 631-218-0787			Location ID#: Lighthouse		
AFE#:			PO#: 08540-40315		

Field ID / Point of Collection	Collection: Date	Time	Sampled By	Matrix	# of bottles	Preservation: HCL	NaOH	HNO3	H2SO4	MEOH	Other	None	EPA Method 8260 (PPTCL)+TAGM+STARS	EPA Method 8270 (PPTCL)+TAGM+STARS	PP metlas (EPA Method 6010/7471)	PP metlas (EPA Method 6010/7471) DISOLVED	TPH EPA Method 8015 (DRO/GRO)	PCB EPA Method 8082
-1GP-2 (15-20)	8/13/08	1123	SM	SO	4							X	X	X	X		X	
-2GP-2 (25-28)		1155																
-3GP-5 (25-28)		1505																

Analytical Information

Turnaround Information

- [X] 10 Day Turnaround — Approved By:
- [ ] 7 Day *EMERGENCY*
- [ ] 4 Day *EMERGENCY*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- [■] Commercial "A"
- [ ] Commercial "B"
- [ ] Full Deliverables
- [ ] Other
- [ ] FULL CLP
- [ ] State Forms
- [ ] Disk Deliverable Format____

Commercial "A" = Results Only

Accutest Log-in Information

rec'd 5 bttls. TKJ 8/15/08

EX37, 1902, 0/9

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler: Sandra Malek	Date Time: 8/13/08 1600	Received By: 1 A. Cwalina	Relinquished By: 2 A. Cwalina	Date Time: 1030 8/14/08	Received By: 2 Fed Ex
Relinquished by Sampler: 3 Fed Ex	Date Time: 8/15/08 0930	Received By: 3 [illegible]	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal #	Preserve where applicable ☐	On Ice ☑ Temp. 4.2 °C

J98159: Chain of Custody
Page 1 of 2

Job Change Order: J98159_8/19/2008

Requested Date:	8/19/2008	**Received Date:**	8/15/2008
Account Name:	Kleinfelder	**Due Date:**	8/29/2008
Project Description:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY	**Deliverable:**	
COMMA			
CSR:	TE	**TAT (Days):**	12

Sample #:
J98159-all

Change: Change the TAT to 12 days, make the due date 8/28

J98159: Chain of Custody
Page 2 of 2

Above Changes Edward Savarese **Date:** 8/19/2008

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Page 1 of 1

Technical Report for

Kleinfelder

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

PO#08540-49315

Accutest Job Number: J98161

Sampling Date: 08/14/08

Report to:

Kleinfelder

mpagotto@kleinfelder.com

ATTN: Melody Pagotto

Total number of pages in report: **28**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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ACCUTEST LABORATORIES 50 YEARS 1956-2006

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Sample Summary

Kleinfelder

Job No: J98161

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY
Project No: PO#08540-49315

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J98161-1	08/14/08	14:00	SM	08/15/08	SO	Soil	GP-4(25-28)
J98161-2	08/14/08	15:00	SM	08/15/08	AQ	Ground Water	GP-4
J98161-2F	08/14/08	15:00	SM	08/15/08	AQ	Groundwater Filtered	GP-4
J98161-3	08/14/08	15:00	SM	08/15/08	AQ	Trip Blank Water	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	GP-4(25-28)		
Lab Sample ID:	J98161-1	**Date Sampled:**	08/14/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8260B	**Percent Solids:**	96.9
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G112948.D	1	08/20/08	SJM	n/a	n/a	VG5449
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.2	ug/kg	
107-02-8	Acrolein	ND	52	11	ug/kg	
107-13-1	Acrylonitrile	ND	52	1.4	ug/kg	
71-43-2	Benzene	ND	1.0	0.36	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	0.27	ug/kg	
75-25-2	Bromoform	ND	5.2	0.35	ug/kg	
74-83-9	Bromomethane	ND	5.2	0.91	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/kg	
104-51-8	n-Butylbenzene	ND	5.2	1.8	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.2	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.2	0.29	ug/kg	
75-15-0	Carbon disulfide	ND	5.2	0.52	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	0.97	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	0.31	ug/kg	
75-00-3	Chloroethane	ND	5.2	0.70	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	26	1.4	ug/kg	
67-66-3	Chloroform	ND	5.2	0.48	ug/kg	
74-87-3	Chloromethane	ND	5.2	0.73	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	0.28	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.2	0.38	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.2	0.31	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.2	0.32	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.2	1.7	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	0.40	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.44	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.2	0.54	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.2	0.37	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.2	0.33	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	0.40	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.2	0.28	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	0.25	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	0.26	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-4(25-28)		
Lab Sample ID:	J98161-1	**Date Sampled:**	08/14/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8260B	**Percent Solids:**	96.9
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.42	ug/kg	
76-13-1	Freon 113	ND	5.2	1.1	ug/kg	
591-78-6	2-Hexanone	ND	5.2	2.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.2	0.46	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.2	0.51	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.37	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.2	2.5	ug/kg	
75-09-2	Methylene chloride	ND	5.2	0.30	ug/kg	
91-20-3	Naphthalene	ND	5.2	0.50	ug/kg	
103-65-1	n-Propylbenzene	ND	5.2	0.49	ug/kg	
100-42-5	Styrene	ND	5.2	0.30	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	0.26	ug/kg	
127-18-4	Tetrachloroethene	ND	5.2	0.48	ug/kg	
108-88-3	Toluene	ND	1.0	0.34	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	0.43	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	0.54	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	0.26	ug/kg	
79-01-6	Trichloroethene	ND	5.2	0.30	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.2	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.2	2.3	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.1	5.2	0.25	ug/kg	J
108-67-8	1,3,5-Trimethylbenzene	ND	5.2	0.36	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	0.65	ug/kg	
	m,p-Xylene	0.89	2.1	0.68	ug/kg	J
95-47-6	o-Xylene	ND	1.0	0.31	ug/kg	
1330-20-7	Xylene (total)	0.89	2.1	0.31	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		67-125%
17060-07-0	1,2-Dichloroethane-D4	101%		64-131%
2037-26-5	Toluene-D8	109%		73-124%
460-00-4	4-Bromofluorobenzene	99%		61-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID: GP-4(25-28)
Lab Sample ID: J98161-1 **Date Sampled:** 08/14/08
Matrix: SO - Soil **Date Received:** 08/15/08
Method: SW846 8270C SW846 3550B **Percent Solids:** 96.9
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z43341.D	1	08/22/08	KLS	08/18/08	OP34246	EZ1536
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	690	9.7	ug/kg	
95-57-8	2-Chlorophenol	ND	170	28	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	41	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	36	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	42	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	690	370	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	690	36	ug/kg	
95-48-7	2-Methylphenol	ND	69	37	ug/kg	
	3&4-Methylphenol	ND	69	46	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	690	44	ug/kg	
87-86-5	Pentachlorophenol	ND	340	44	ug/kg	
108-95-2	Phenol	ND	69	26	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	46	ug/kg	
83-32-9	Acenaphthene	ND	34	18	ug/kg	
208-96-8	Acenaphthylene	ND	34	15	ug/kg	
62-53-3	Aniline	ND	69	9.1	ug/kg	
120-12-7	Anthracene	17.4	34	15	ug/kg	J
92-87-5	Benzidine	ND	690	180	ug/kg	
56-55-3	Benzo(a)anthracene	63.5	34	21	ug/kg	
50-32-8	Benzo(a)pyrene	58.6	34	14	ug/kg	
205-99-2	Benzo(b)fluoranthene	53.2	34	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	47.8	34	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	34.3	34	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	69	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	69	17	ug/kg	
91-58-7	2-Chloronaphthalene	ND	69	15	ug/kg	
106-47-8	4-Chloroaniline	ND	170	14	ug/kg	
86-74-8	Carbazole	ND	69	15	ug/kg	
218-01-9	Chrysene	59.2	34	16	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	69	17	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-4(25-28)		
Lab Sample ID:	J98161-1	**Date Sampled:**	08/14/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	96.9
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	69	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	69	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	69	23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	69	18	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	69	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	69	14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	69	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	69	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	69	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	59	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17.2	34	16	ug/kg	J
132-64-9	Dibenzofuran	ND	69	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	69	21	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	69	15	ug/kg	
84-66-2	Diethyl phthalate	ND	69	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	69	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	527	69	18	ug/kg	
206-44-0	Fluoranthene	100	34	16	ug/kg	
86-73-7	Fluorene	ND	34	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	69	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	69	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	690	32	ug/kg	
67-72-1	Hexachloroethane	ND	170	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	43.2	34	13	ug/kg	
78-59-1	Isophorone	ND	69	30	ug/kg	
91-57-6	2-Methylnaphthalene	20.7	69	15	ug/kg	J
88-74-4	2-Nitroaniline	ND	170	25	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	21	ug/kg	
91-20-3	Naphthalene	ND	34	15	ug/kg	
98-95-3	Nitrobenzene	ND	69	15	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	69	30	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	69	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	23	ug/kg	
85-01-8	Phenanthrene	46.1	34	17	ug/kg	
129-00-0	Pyrene	100	34	15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	69	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-4(25-28)		
Lab Sample ID:	J98161-1	**Date Sampled:**	08/14/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	96.9
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	79%		29-114%
4165-62-2	Phenol-d5	77%		31-111%
118-79-6	2,4,6-Tribromophenol	92%		27-133%
4165-60-0	Nitrobenzene-d5	72%		36-116%
321-60-8	2-Fluorobiphenyl	73%		44-111%
1718-51-0	Terphenyl-d14	75%		37-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	GP-4(25-28)		
Lab Sample ID:	J98161-1	**Date Sampled:**	08/14/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
Method:	SW846 8015	**Percent Solids:**	96.9
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF67847.D	1	08/26/08	DCA	n/a	n/a	GPF1448
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	2.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	101%		42-141%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: GP-4(25-28)
Lab Sample ID: J98161-1 **Date Sampled:** 08/14/08
Matrix: SO - Soil **Date Received:** 08/15/08
Method: SW846 8082 SW846 3545 **Percent Solids:** 96.9
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB76021.D	1	08/24/08	JSE	08/18/08	OP34242	GAB5091
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	6.5	ug/kg	
11104-28-2	Aroclor 1221	ND	34	20	ug/kg	
11141-16-5	Aroclor 1232	ND	34	18	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	12	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	ND	34	6.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		44-139%
877-09-8	Tetrachloro-m-xylene	99%		44-139%
2051-24-3	Decachlorobiphenyl	103%		39-147%
2051-24-3	Decachlorobiphenyl	93%		39-147%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID: GP-4(25-28)
Lab Sample ID: J98161-1 **Date Sampled:** 08/14/08
Matrix: SO - Soil **Date Received:** 08/15/08
Method: SW846-8015 SW846 3545 **Percent Solids:** 96.9
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Y7522.D	1	08/20/08	PM	08/16/08	OP34230	G3Y254
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	110	6.8	1.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		31-152%
16416-32-3	Tetracosane-d50	85%		34-153%
438-22-2	5a-Androstane	79%		36-151%

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N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-4(25-28)		
Lab Sample ID:	J98161-1	**Date Sampled:**	08/14/08
Matrix:	SO - Soil	**Date Received:**	08/15/08
		Percent Solids:	96.9
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.1	2.1	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Arsenic	3.3	2.1	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Beryllium	< 0.52	0.52	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Cadmium	< 0.52	0.52	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Chromium	14.0	1.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Copper	7.1	2.6	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Lead	7.2	2.1	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Mercury	< 0.034	0.034	mg/kg	1	08/27/08	08/27/08	JF	SW846 7471A [2]	SW846 7471A [4]
Nickel	5.8	4.1	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Selenium	< 2.1	2.1	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Silver	< 1.0	1.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Thallium	< 1.0	1.0	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]
Zinc	16.1	2.1	mg/kg	1	08/20/08	08/21/08	ND	SW846 6010B [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA21340
(2) Instrument QC Batch: MA21368
(3) Prep QC Batch: MP44880
(4) Prep QC Batch: MP44978

RL = Reporting Limit

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Report of Analysis

Client Sample ID: GP-4
Lab Sample ID: J98161-2 **Date Sampled:** 08/14/08
Matrix: AQ - Ground Water **Date Received:** 08/15/08
Method: SW846 8260B **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E29992.D	1	08/27/08	MMC	n/a	n/a	V2E1310
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-4		
Lab Sample ID:	J98161-2	**Date Sampled:**	08/14/08
Matrix:	AQ - Ground Water	**Date Received:**	08/15/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		72-120%
17060-07-0	1,2-Dichloroethane-D4	105%		59-137%
2037-26-5	Toluene-D8	81%		73-116%
460-00-4	4-Bromofluorobenzene	82%		69-126%

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N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: GP-4
Lab Sample ID: J98161-2 **Date Sampled:** 08/14/08
Matrix: AQ - Ground Water **Date Received:** 08/15/08
Method: SW846 8270C SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P38649.D	1	08/18/08	WG	08/16/08	OP34236	EP1597
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	22	3.9	ug/l	
95-57-8	2-Chlorophenol	ND	5.6	1.6	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.6	2.5	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.6	2.1	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.6	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	4.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	22	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.2	1.5	ug/l	
	3&4-Methylphenol	ND	2.2	1.6	ug/l	
88-75-5	2-Nitrophenol	ND	5.6	2.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	2.5	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	2.2	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.6	2.2	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.6	1.7	ug/l	
83-32-9	Acenaphthene	ND	2.2	0.42	ug/l	
208-96-8	Acenaphthylene	ND	2.2	0.60	ug/l	
62-53-3	Aniline	ND	2.2	0.38	ug/l	
120-12-7	Anthracene	ND	2.2	0.46	ug/l	
92-87-5	Benzidine	ND	22	8.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.2	0.43	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.2	0.53	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.2	0.58	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.2	0.51	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.2	0.63	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.46	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.46	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	0.54	ug/l	
106-47-8	4-Chloroaniline	ND	5.6	0.37	ug/l	
86-74-8	Carbazole	ND	2.2	0.50	ug/l	
218-01-9	Chrysene	ND	2.2	0.48	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.57	ug/l	

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Report of Analysis

Client Sample ID:	GP-4		
Lab Sample ID:	J98161-2	**Date Sampled:**	08/14/08
Matrix:	AQ - Ground Water	**Date Received:**	08/15/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.55	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.60	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.2	0.39	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	2.2	0.58	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.2	0.37	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.2	0.39	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.2	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.2	0.67	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	5.1	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.2	0.50	ug/l	
132-64-9	Dibenzofuran	ND	5.6	0.54	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.2	0.55	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.55	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	0.40	ug/l	
131-11-3	Dimethyl phthalate	ND	2.2	0.40	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	1.3	2.2	0.83	ug/l	J
206-44-0	Fluoranthene	ND	2.2	0.44	ug/l	
86-73-7	Fluorene	ND	2.2	0.45	ug/l	
118-74-1	Hexachlorobenzene	ND	2.2	0.50	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.2	0.42	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	22	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.33	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.2	0.47	ug/l	
78-59-1	Isophorone	ND	2.2	0.77	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	5.6	0.49	ug/l	
99-09-2	3-Nitroaniline	ND	5.6	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	5.6	0.50	ug/l	
91-20-3	Naphthalene	ND	2.2	0.35	ug/l	
98-95-3	Nitrobenzene	ND	2.2	0.73	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.2	0.40	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.67	ug/l	
85-01-8	Phenanthrene	ND	2.2	0.37	ug/l	
129-00-0	Pyrene	ND	2.2	0.54	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.2	0.41	ug/l	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-4		
Lab Sample ID:	J98161-2	**Date Sampled:**	08/14/08
Matrix:	AQ - Ground Water	**Date Received:**	08/15/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		10-69%
4165-62-2	Phenol-d5	35%		10-52%
118-79-6	2,4,6-Tribromophenol	93%		32-134%
4165-60-0	Nitrobenzene-d5	82%		23-116%
321-60-8	2-Fluorobiphenyl	68%		28-109%
1718-51-0	Terphenyl-d14	82%		24-125%

ND = Not detected MDL - Method Detection Limit
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Report of Analysis

Client Sample ID:	GP-4		
Lab Sample ID:	J98161-2	**Date Sampled:**	08/14/08
Matrix:	AQ - Ground Water	**Date Received:**	08/15/08
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV59336.D	1	08/19/08	DCA	n/a	n/a	GUV2619
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	89%		51-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-4		
Lab Sample ID:	J98161-2	**Date Sampled:**	08/14/08
Matrix:	AQ - Ground Water	**Date Received:**	08/15/08
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G31122.D	1	08/18/08	OPM	08/16/08	OP34053	G2G1216
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.094	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.47	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.16	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		23-131%
877-09-8	Tetrachloro-m-xylene	93%		23-131%
2051-24-3	Decachlorobiphenyl	103%		12-139%
2051-24-3	Decachlorobiphenyl	112%		12-139%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-4		
Lab Sample ID:	J98161-2	**Date Sampled:**	08/14/08
Matrix:	AQ - Ground Water	**Date Received:**	08/15/08
Method:	SW846-8015 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ51501.D	1	08/18/08	PM	08/16/08	OP34238	GZZ1666
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.10	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		31-132%
16416-32-3	Tetracosane-d50	79%		26-139%
438-22-2	5a-Androstane	73%		26-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-4		
Lab Sample ID:	J98161-2	**Date Sampled:**	08/14/08
Matrix:	AQ - Ground Water	**Date Received:**	08/15/08
		Percent Solids:	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Arsenic	4.7	3.0	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/25/08	08/25/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21353
(2) Instrument QC Batch: MA21359
(3) Prep QC Batch: MP44927
(4) Prep QC Batch: MP44948

RL = Reporting Limit

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID: GP-4
Lab Sample ID: J98161-2F
Matrix: AQ - Groundwater Filtered
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/14/08
Date Received: 08/15/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/25/08	08/25/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21353
(2) Instrument QC Batch: MA21359
(3) Prep QC Batch: MP44927
(4) Prep QC Batch: MP44948

RL = Reporting Limit

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: J98161-3 **Date Sampled:** 08/14/08
Matrix: AQ - Trip Blank Water **Date Received:** 08/15/08
Method: SW846 8260B **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E29993.D	1	08/27/08	MMC	n/a	n/a	V2E1310
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	J98161-3	**Date Sampled:**	08/14/08
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/15/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		72-120%
17060-07-0	1,2-Dichloroethane-D4	109%		59-137%
2037-26-5	Toluene-D8	82%		73-116%
460-00-4	4-Bromofluorobenzene	83%		69-126%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST
SO GW 46

CHAIN OF CUSTODY

2235 Us Highway 130, Dayton, NJ 08810
(732) 329-0200 Fax: (732) 329-3499

Accutest Job #: J98161

Client Information

Consultants Name: Kleinfelder East Inc.
Address: One Corporate Drive, Suite 201
City: Bohemia State: NY Zip: 11716
Project Contact: Edward N. Savarese
Phone #: 631-218-0612
Fax #: 631-218-0787
AFE#

Facility Information

Project Name: Lighthouse Project
Street: 1255 Hempstead Tpke
City: Uniondale State: NY
Invoice Contact: Kleinfelder
Invoice Phone #: 631 218 0612
Location ID#: Lighthouse
PO#: 08540-49315

Field ID / Point of Collection	Collection: Date	Time	Sampled By	Matrix	# of bottles	Preservation: HCL	NaOH	HNO3	H2SO4	MEOH	Other	None	EPA Method 8260 (PPTCL)+TAGM+STARS	EPA Method 8270 (PPTCL)+TAGM+STARS	PP metlas (EPA Method 6010/7471)	PP metlas (EPA Method 6010/7471) DISOLVED	TPH EPA Method 8015 (DRO/GRO)	PCB EPA Method 8082
GP-4 (25-28) -1	8/14/08	1400	SM	SO	5							X	X	X	X		X	X
GP-4 -2	8/14/08	1500	SM	GW	14	X		X				X	X	X	X	X	X	X
Trip Blank -3																		

Turnaround Information

- [X] 10 Day Turnaround
- [ ] 7 Day EMERGENCY
- [ ] 4 Day EMERGENCY
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Approved By:
Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- [■] Commercial "A"
- [ ] Commercial "B"
- [ ] Full Deliverables
- [ ] Other
- [ ] FULL CLP
- [ ] State Forms
- [ ] Disk Deliverable Format

Commercial "A" = Results Only

Accutest Log-in Information

BTB filled 7/22/08 @ 0630 TMS 8/15/08
951, AMETH, EX6, EX37, 19K1, %36

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	8/14/08 1400	1 Fed Ex	2 Fed Ex	8/15/08 0930	2 PM
3		3	4		4
5		5	Seal #	Preserve where applicable ☑	On Ice ☑ Temp. 3.0°C

TMS 8/15/08

IB

Job Change Order: J98161_8/19/2008

Requested Date:	8/19/2008	**Received Date:**	8/15/2008
Account Name:	Kleinfelder	**Due Date:**	8/29/2008
Project Description: COMMA	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY	**Deliverable:**	
CSR:	TE	**TAT (Days):**	12

Sample #:
J98161-all

Change: Change the TAT to 12 days, make the due date 8/28

J98161: Chain of Custody
Page 2 of 2

Above Changes Edward Savarese **Date:** 8/19/2008

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Page 1 of 1

Technical Report for

Kleinfelder

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

PO#08540-49315

Accutest Job Number: J98304

Sampling Date: 08/15/08

Report to:

Kleinfelder

mpagotto@kleinfelder.com

ATTN: Melody Pagotto

Total number of pages in report: **28**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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ACCUTEST LABORATORIES 50 YEARS 1956-2006

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Sample Summary

Kleinfelder

Job No: J98304

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY
Project No: PO#08540-49315

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J98304-1	08/15/08	11:34	AW	08/16/08	SO	Soil	GP18 (20-25)
J98304-2	08/15/08	13:45	AW	08/16/08	AQ	Ground Water	GP18
J98304-2F	08/15/08	13:45	AW	08/16/08	AQ	Groundwater Filtered	GP18
J98304-3	08/15/08	13:45	AW	08/16/08	AQ	Trip Blank Water	GP18 TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Results

Report of Analysis

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID:	GP18 (20-25)		
Lab Sample ID:	J98304-1	**Date Sampled:**	08/15/08
Matrix:	SO - Soil	**Date Received:**	08/16/08
Method:	SW846 8260B	**Percent Solids:**	95.1
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G112960.D	1	08/20/08	SJM	n/a	n/a	VG5450
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.2	ug/kg	
107-02-8	Acrolein	ND	52	11	ug/kg	
107-13-1	Acrylonitrile	ND	52	1.4	ug/kg	
71-43-2	Benzene	ND	1.0	0.36	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	0.27	ug/kg	
75-25-2	Bromoform	ND	5.2	0.35	ug/kg	
74-83-9	Bromomethane	ND	5.2	0.91	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/kg	
104-51-8	n-Butylbenzene	ND	5.2	1.8	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.2	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.2	0.29	ug/kg	
75-15-0	Carbon disulfide	ND	5.2	0.52	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	0.96	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	0.31	ug/kg	
75-00-3	Chloroethane	ND	5.2	0.70	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	26	1.4	ug/kg	
67-66-3	Chloroform	ND	5.2	0.48	ug/kg	
74-87-3	Chloromethane	ND	5.2	0.73	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	0.28	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.2	0.38	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.2	0.31	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.2	0.32	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.2	1.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	0.40	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.44	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.2	0.54	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.2	0.37	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.2	0.33	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	0.40	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.2	0.28	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	0.25	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	0.26	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP18 (20-25)		
Lab Sample ID:	J98304-1	**Date Sampled:**	08/15/08
Matrix:	SO - Soil	**Date Received:**	08/16/08
Method:	SW846 8260B	**Percent Solids:**	95.1
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.42	ug/kg	
76-13-1	Freon 113	ND	5.2	1.1	ug/kg	
591-78-6	2-Hexanone	ND	5.2	2.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.2	0.46	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.2	0.51	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.36	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.2	2.5	ug/kg	
75-09-2	Methylene chloride	ND	5.2	0.30	ug/kg	
91-20-3	Naphthalene	ND	5.2	0.50	ug/kg	
103-65-1	n-Propylbenzene	ND	5.2	0.49	ug/kg	
100-42-5	Styrene	ND	5.2	0.30	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	0.26	ug/kg	
127-18-4	Tetrachloroethene	ND	5.2	0.48	ug/kg	
108-88-3	Toluene	1.6	1.0	0.34	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	0.43	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	0.54	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	0.26	ug/kg	
79-01-6	Trichloroethene	ND	5.2	0.30	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.2	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.2	2.3	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.2	0.25	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.2	0.36	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	0.65	ug/kg	
	m,p-Xylene	1.6	2.1	0.68	ug/kg	J
95-47-6	o-Xylene	0.47	1.0	0.31	ug/kg	J
1330-20-7	Xylene (total)	2.1	2.1	0.31	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		67-125%
17060-07-0	1,2-Dichloroethane-D4	101%		64-131%
2037-26-5	Toluene-D8	110%		73-124%
460-00-4	4-Bromofluorobenzene	103%		61-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP18 (20-25)		
Lab Sample ID:	J98304-1	**Date Sampled:**	08/15/08
Matrix:	SO - Soil	**Date Received:**	08/16/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	95.1
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E15984.D	1	08/20/08	OYA	08/19/08	OP34264	E3E694
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	700	9.9	ug/kg	
95-57-8	2-Chlorophenol	ND	180	29	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	42	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	36	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	43	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	700	380	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	700	37	ug/kg	
95-48-7	2-Methylphenol	ND	70	38	ug/kg	
	3&4-Methylphenol	ND	70	47	ug/kg	
88-75-5	2-Nitrophenol	ND	180	37	ug/kg	
100-02-7	4-Nitrophenol	ND	700	45	ug/kg	
87-86-5	Pentachlorophenol	ND	350	45	ug/kg	
108-95-2	Phenol	ND	70	26	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	38	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	47	ug/kg	
83-32-9	Acenaphthene	ND	35	19	ug/kg	
208-96-8	Acenaphthylene	ND	35	15	ug/kg	
62-53-3	Aniline	ND	70	9.3	ug/kg	
120-12-7	Anthracene	ND	35	16	ug/kg	
92-87-5	Benzidine	ND	700	180	ug/kg	
56-55-3	Benzo(a)anthracene	43.0	35	21	ug/kg	
50-32-8	Benzo(a)pyrene	47.8	35	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	51.7	35	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40.8	35	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	38.0	35	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	70	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	70	17	ug/kg	
91-58-7	2-Chloronaphthalene	ND	70	16	ug/kg	
106-47-8	4-Chloroaniline	ND	180	14	ug/kg	
86-74-8	Carbazole	ND	70	15	ug/kg	
218-01-9	Chrysene	50.7	35	16	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	70	17	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP18 (20-25)		
Lab Sample ID:	J98304-1	**Date Sampled:**	08/15/08
Matrix:	SO - Soil	**Date Received:**	08/16/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	95.1
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	70	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	70	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	70	23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	70	19	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	70	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	70	14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	70	14	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	70	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	70	16	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	61	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	17	ug/kg	
132-64-9	Dibenzofuran	ND	70	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	70	22	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	70	15	ug/kg	
84-66-2	Diethyl phthalate	ND	70	16	ug/kg	
131-11-3	Dimethyl phthalate	ND	70	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	70	18	ug/kg	
206-44-0	Fluoranthene	87.0	35	16	ug/kg	
86-73-7	Fluorene	ND	35	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	70	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	70	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	700	33	ug/kg	
67-72-1	Hexachloroethane	ND	180	23	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	34.5	35	13	ug/kg	J
78-59-1	Isophorone	ND	70	31	ug/kg	
91-57-6	2-Methylnaphthalene	ND	70	16	ug/kg	
88-74-4	2-Nitroaniline	ND	180	26	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	22	ug/kg	
91-20-3	Naphthalene	ND	35	15	ug/kg	
98-95-3	Nitrobenzene	ND	70	16	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	70	31	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	70	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	24	ug/kg	
85-01-8	Phenanthrene	32.5	35	17	ug/kg	J
129-00-0	Pyrene	72.2	35	15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	70	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP18 (20-25)		
Lab Sample ID:	J98304-1	**Date Sampled:**	08/15/08
Matrix:	SO - Soil	**Date Received:**	08/16/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	95.1
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		29-114%
4165-62-2	Phenol-d5	71%		31-111%
118-79-6	2,4,6-Tribromophenol	91%		27-133%
4165-60-0	Nitrobenzene-d5	64%		36-116%
321-60-8	2-Fluorobiphenyl	71%		44-111%
1718-51-0	Terphenyl-d14	77%		37-131%

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID:	GP18 (20-25)		
Lab Sample ID:	J98304-1	**Date Sampled:**	08/15/08
Matrix:	SO - Soil	**Date Received:**	08/16/08
Method:	SW846 8015	**Percent Solids:**	95.1
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF67868.D	1	08/27/08	DCA	n/a	n/a	GPF1448
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.2 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	2.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	100%		42-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID: GP18 (20-25)
Lab Sample ID: J98304-1 **Date Sampled:** 08/15/08
Matrix: SO - Soil **Date Received:** 08/16/08
Method: SW846 8082 SW846 3545 **Percent Solids:** 95.1
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF75868.D	1	08/24/08	VDT	08/18/08	OP34254	GEF3509
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	6.5	ug/kg	
11104-28-2	Aroclor 1221	ND	34	21	ug/kg	
11141-16-5	Aroclor 1232	ND	34	19	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	12	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	ND	34	6.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		44-139%
877-09-8	Tetrachloro-m-xylene	91%		44-139%
2051-24-3	Decachlorobiphenyl	99%		39-147%
2051-24-3	Decachlorobiphenyl	96%		39-147%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID: GP18 (20-25)
Lab Sample ID: J98304-1 **Date Sampled:** 08/15/08
Matrix: SO - Soil **Date Received:** 08/16/08
Method: SW846-8015 SW846 3545 **Percent Solids:** 95.1
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ51541.D	1	08/20/08	PM	08/18/08	OP34256	GZZ1668
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	7.0	1.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	58%		31-152%
16416-32-3	Tetracosane-d50	68%		34-153%
438-22-2	5a-Androstane	61%		36-151%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID:	GP18 (20-25)		
Lab Sample ID:	J98304-1	**Date Sampled:**	08/15/08
Matrix:	SO - Soil	**Date Received:**	08/16/08
		Percent Solids:	95.1
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.0	2.0	mg/kg	1	08/26/08	08/26/08	GT	SW846 6010B [1]	SW846 3050B [3]
Arsenic	< 2.0	2.0	mg/kg	1	08/26/08	08/26/08	GT	SW846 6010B [1]	SW846 3050B [3]
Beryllium	< 0.50	0.50	mg/kg	1	08/26/08	08/26/08	GT	SW846 6010B [1]	SW846 3050B [3]
Cadmium	< 0.50	0.50	mg/kg	1	08/26/08	08/26/08	GT	SW846 6010B [1]	SW846 3050B [3]
Chromium	7.4	1.0	mg/kg	1	08/26/08	08/26/08	GT	SW846 6010B [1]	SW846 3050B [3]
Copper	4.7	2.5	mg/kg	1	08/26/08	08/26/08	GT	SW846 6010B [1]	SW846 3050B [3]
Lead	8.6	2.0	mg/kg	1	08/26/08	08/26/08	GT	SW846 6010B [1]	SW846 3050B [3]
Mercury	< 0.033	0.033	mg/kg	1	08/27/08	08/27/08	JF	SW846 7471A [2]	SW846 7471A [4]
Nickel	< 4.0	4.0	mg/kg	1	08/26/08	08/26/08	GT	SW846 6010B [1]	SW846 3050B [3]
Selenium	< 2.0	2.0	mg/kg	1	08/26/08	08/26/08	GT	SW846 6010B [1]	SW846 3050B [3]
Silver	< 1.0	1.0	mg/kg	1	08/26/08	08/26/08	GT	SW846 6010B [1]	SW846 3050B [3]
Thallium	< 1.0	1.0	mg/kg	1	08/26/08	08/26/08	GT	SW846 6010B [1]	SW846 3050B [3]
Zinc	13.9	2.0	mg/kg	1	08/26/08	08/26/08	GT	SW846 6010B [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA21365
(2) Instrument QC Batch: MA21368
(3) Prep QC Batch: MP44954
(4) Prep QC Batch: MP44978

RL = Reporting Limit

Report of Analysis

Client Sample ID: GP18
Lab Sample ID: J98304-2 **Date Sampled:** 08/15/08
Matrix: AQ - Ground Water **Date Received:** 08/16/08
Method: SW846 8260B **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E29994.D	1	08/27/08	MMC	n/a	n/a	V2E1310
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP18		
Lab Sample ID:	J98304-2	**Date Sampled:**	08/15/08
Matrix:	AQ - Ground Water	**Date Received:**	08/16/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		72-120%
17060-07-0	1,2-Dichloroethane-D4	109%		59-137%
2037-26-5	Toluene-D8	80%		73-116%
460-00-4	4-Bromofluorobenzene	83%		69-126%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID: GP18
Lab Sample ID: J98304-2 **Date Sampled:** 08/15/08
Matrix: AQ - Ground Water **Date Received:** 08/16/08
Method: SW846 8270C SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E15951.D	1	08/19/08	OYA	08/18/08	OP34017	E3E693
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	20	3.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	1.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	4.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	1.2	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.4	ug/l	
	3&4-Methylphenol	ND	2.0	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	2.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.6	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.38	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.54	ug/l	
62-53-3	Aniline	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	2.0	0.42	ug/l	
92-87-5	Benzidine	ND	20	8.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.38	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.53	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.46	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.57	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.41	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.33	ug/l	
86-74-8	Carbazole	ND	2.0	0.45	ug/l	
218-01-9	Chrysene	ND	2.0	0.44	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.52	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP18		
Lab Sample ID:	J98304-2	**Date Sampled:**	08/15/08
Matrix:	AQ - Ground Water	**Date Received:**	08/16/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.45	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.35	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	2.0	0.52	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.33	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	4.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.45	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.50	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.36	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.75	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.40	ug/l	
86-73-7	Fluorene	ND	2.0	0.40	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	0.45	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.38	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	4.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	0.42	ug/l	
78-59-1	Isophorone	ND	2.0	0.69	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.45	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.45	ug/l	
91-20-3	Naphthalene	ND	2.0	0.32	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.66	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.36	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.39	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.34	ug/l	
129-00-0	Pyrene	ND	2.0	0.48	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.37	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP18		
Lab Sample ID:	J98304-2	**Date Sampled:**	08/15/08
Matrix:	AQ - Ground Water	**Date Received:**	08/16/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		10-69%
4165-62-2	Phenol-d5	22%		10-52%
118-79-6	2,4,6-Tribromophenol	100%		32-134%
4165-60-0	Nitrobenzene-d5	65%		23-116%
321-60-8	2-Fluorobiphenyl	67%		28-109%
1718-51-0	Terphenyl-d14	73%		24-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	GP18		
Lab Sample ID:	J98304-2	**Date Sampled:**	08/15/08
Matrix:	AQ - Ground Water	**Date Received:**	08/16/08
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV59337.D	1	08/19/08	DCA	n/a	n/a	GUV2619
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	88%		51-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID:	GP18		
Lab Sample ID:	J98304-2	**Date Sampled:**	08/15/08
Matrix:	AQ - Ground Water	**Date Received:**	08/16/08
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G31365.D	1	08/25/08	JSE	08/19/08	OP34103	G2G1222
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.094	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.47	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.16	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		23-131%
877-09-8	Tetrachloro-m-xylene	87%		23-131%
2051-24-3	Decachlorobiphenyl	57%		12-139%
2051-24-3	Decachlorobiphenyl	58%		12-139%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID: GP18
Lab Sample ID: J98304-2 **Date Sampled:** 08/15/08
Matrix: AQ - Ground Water **Date Received:** 08/16/08
Method: SW846-8015 SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ51544.D	1	08/20/08	PM	08/19/08	OP34208	GZZ1668
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.10	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		31-132%
16416-32-3	Tetracosane-d50	67%		26-139%
438-22-2	5a-Androstane	60%		26-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID:	GP18		
Lab Sample ID:	J98304-2	**Date Sampled:**	08/15/08
Matrix:	AQ - Ground Water	**Date Received:**	08/16/08
		Percent Solids:	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Arsenic	3.2	3.0	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Chromium	131	10	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Copper	38.4	25	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Lead	23.1	3.0	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/25/08	08/25/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]
Zinc	59.8	20	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21353
(2) Instrument QC Batch: MA21359
(3) Prep QC Batch: MP44927
(4) Prep QC Batch: MP44948

RL = Reporting Limit

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID: GP18
Lab Sample ID: J98304-2F
Matrix: AQ - Groundwater Filtered
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/15/08
Date Received: 08/16/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [4]
Arsenic	< 3.0	3.0	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [4]
Beryllium	< 1.0	1.0	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [4]
Cadmium	< 4.0	4.0	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [4]
Lead	< 3.0	3.0	ug/l	1	08/22/08	08/25/08	GT	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	08/25/08	08/25/08	JF	SW846 7470A [3]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	08/22/08	08/23/08	GT	SW846 6010B [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA21353
(2) Instrument QC Batch: MA21358
(3) Instrument QC Batch: MA21359
(4) Prep QC Batch: MP44927
(5) Prep QC Batch: MP44948

RL = Reporting Limit

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID: GP18 TRIP BLANK
Lab Sample ID: J98304-3 **Date Sampled:** 08/15/08
Matrix: AQ - Trip Blank Water **Date Received:** 08/16/08
Method: SW846 8260B **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E29995.D	1	08/27/08	MMC	n/a	n/a	V2E1310
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP18 TRIP BLANK		
Lab Sample ID:	J98304-3	**Date Sampled:**	08/15/08
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/16/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		72-120%
17060-07-0	1,2-Dichloroethane-D4	110%		59-137%
2037-26-5	Toluene-D8	82%		73-116%
460-00-4	4-Bromofluorobenzene	83%		69-126%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST

50 SW TB

CHAIN OF CUSTODY

2235 Us Highway 130, Dayton, NJ 08810
(732) 329-0200 Fax: (732) 329-3499

Accutest Job #: J98304

Client Information			Facility Information		
Consultants Name: Kleinfelder East Inc.			Project Name: Lighthouse Project		
Address: One Corporate Drive, Suite 201			Street: 1255 Hempstead Tpke		
City: Bohemia	State: NY	Zip: 11716	City: Uniondale	State: NY	
Project Contact: Edward N. Savarese			Invoice Contact: Kleinfelder		
Phone #: 631-218-0612			Invoice Phone #: 631 218 0612		
Fax #: 631-218-0787			Location ID#: Lighthouse		
AFE#:			PO#: 08540-49315		

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation: HCL	NaOH	HNO3	H2SO4	MEOH	Other	None	EPA Method 8260 (PPTCL)+TAGM+STARS	EPA Method 8270 (PPTCL)+TAGM+STARS	PP metlas (EPA Method 6010/7471)	PP metlas (EPA Method 6010/7471) DISOLVED	TPH EPA Method 8015 (DRO/GRO)	PCB EPA Method 8082	Trip Blank										
GP18 (20-25)	8/15/08	1134	AW	SOIL	5							X	X	X	X		X	X										
GP18	8/15/08	1345	AW	H2O	14	X		X					X	X	X		X	X										
GP18 Trip Blank	8/15/08	1345	—	H2O	2	X													X									

Turnaround Information	Approved By:	Data Deliverable Information		Accutest Log-in Information
[X] 10 Day Turnaround		[■] Commercial "A"	[ ] FULL CLP	• fil 7/22/08 0630 8/16/08 am
[ ] 7 Day EMERGENCY		[ ] Commercial "B"	[ ] State Forms	UTC30, 1964 EX30, AMET 9, 983
[ ] 4 Day EMERGENCY		[ ] Full Deliverables	[ ] Disk Deliverable Format	
[ ] 3 Day EMERGENCY		[ ] Other		
[ ] 2 Day EMERGENCY				
[ ] 1 Day EMERGENCY				
Emergency T/A is for FAX or Lablink Data		Commercial "A" = Results Only		

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	8/15/08	1 FedX	2 FedX	8/16/08 1000	2
3		3	4		4
5		5	Seal # client intact	Preserve where applicable (pH)	On Ice 4 4 Temp. 4.2°C

B

J98304: Chain of Custody
Page 1 of 2

Job Change Order: J98304_8/19/2008

Requested Date:	8/19/2008	**Received Date:**	8/16/2008
Account Name:	Kleinfelder	**Due Date:**	9/1/2008
Project Description: COMMA	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY	**Deliverable:**	
CSR:	TE	**TAT (Days):**	10

Sample #:
J98304-a

Change: Change the TAT to 10 days, make the due date 8/28

J98304: Chain of Custody
Page 2 of 2

Above Changes Edward Savarese **Date:** 8/19/2008

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Page 1 of 1

Technical Report for

Kleinfelder

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

PO#08540-49315

Accutest Job Number: J98787

Sampling Dates: 08/17/08 - 08/21/08

Report to:

Kleinfelder

mpagotto@kleinfelder.com

ATTN: Melody Pagotto

Total number of pages in report: **113**

ACCUTEST LABORATORIES 50 YEARS 1956-2006

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Sample Summary

Kleinfelder

Job No: J98787

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY
Project No: PO#08540-49315

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J98787-1	08/20/08	13:00	AW	08/22/08	SO	Soil	GP-8 (22-28)
J98787-2	08/21/08	10:20	AW	08/22/08	AQ	Ground Water	GP-8 (22-28)
J98787-2F	08/21/08	10:20	AW	08/22/08	AQ	Groundwater Filtered	GP-8 (22-28)
J98787-3	08/21/08	10:20	AW	08/22/08	AQ	Trip Blank Water	TRIP BLANK
J98787-4	08/21/08	12:00	AW	08/22/08	SO	Soil	GP-11 (24-27)
J98787-5	08/21/08	14:30	AW	08/22/08	AQ	Ground Water	GP-11
J98787-5F	08/21/08	14:30	AW	08/22/08	AQ	Groundwater Filtered	GP-11
J98787-6	08/17/08	14:47	AW	08/22/08	SO	Soil	GP-12 (24-28)
J98787-7	08/21/08	18:08	AW	08/22/08	AQ	Ground Water	GP-12
J98787-7F	08/21/08	18:08	AW	08/22/08	AQ	Groundwater Filtered	GP-12
J98787-8	08/17/08	12:50	AW	08/22/08	SO	Soil	GP-17 (24-27)
J98787-9	08/21/08	16:55	AW	08/22/08	AQ	Ground Water	GP-17
J98787-9F	08/21/08	16:55	AW	08/22/08	AQ	Groundwater Filtered	GP-17

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Kleinfelder

Job No: J98787

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY
Project No: PO#08540-49315

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J98787-10	08/19/08	10:19	AW	08/22/08	SO	Soil	GP-19 (17-22)
J98787-11	08/18/08	17:30	AW	08/22/08	SO	Soil	GP-19 (24-28)
J98787-12	08/21/08	00:00	AW	08/22/08	AQ	Equipment Blank	EQUIPMENT BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	GP-8 (22-28)		
Lab Sample ID:	J98787-1	**Date Sampled:**	08/20/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8260B	**Percent Solids:**	97.2
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V82339.D	1	08/27/08	JLI	n/a	n/a	VV3325
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.2	ug/kg	
107-02-8	Acrolein	ND	50	11	ug/kg	
107-13-1	Acrylonitrile	ND	50	1.4	ug/kg	
71-43-2	Benzene	ND	1.0	0.36	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.26	ug/kg	
75-25-2	Bromoform	ND	5.0	0.34	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.89	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.2	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.8	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.49	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.28	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.51	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.94	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.30	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.69	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	1.4	ug/kg	
67-66-3	Chloroform	ND	5.0	0.47	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.71	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.27	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.37	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.31	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.32	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.40	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.43	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.0	0.53	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.36	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	0.32	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.40	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.27	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.25	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.25	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-8 (22-28)		
Lab Sample ID:	J98787-1	**Date Sampled:**	08/20/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8260B	**Percent Solids:**	97.2
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.41	ug/kg	
76-13-1	Freon 113	ND	5.0	1.1	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.45	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.50	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.36	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	2.4	ug/kg	
75-09-2	Methylene chloride	ND	5.0	0.29	ug/kg	
91-20-3	Naphthalene	ND	5.0	0.49	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.48	ug/kg	
100-42-5	Styrene	ND	5.0	0.29	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.26	ug/kg	
127-18-4	Tetrachloroethene	ND	5.0	0.47	ug/kg	
108-88-3	Toluene	ND	1.0	0.33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.42	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.53	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.26	ug/kg	
79-01-6	Trichloroethene	ND	5.0	0.30	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	2.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.25	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.35	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	0.64	ug/kg	
	m,p-Xylene	ND	2.0	0.66	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.30	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	0.30	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		67-125%
17060-07-0	1,2-Dichloroethane-D4	91%		64-131%
2037-26-5	Toluene-D8	100%		73-124%
460-00-4	4-Bromofluorobenzene	89%		61-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GP-8 (22-28)
Lab Sample ID: J98787-1 **Date Sampled:** 08/20/08
Matrix: SO - Soil **Date Received:** 08/22/08
Method: SW846 8270C SW846 3550B **Percent Solids:** 97.2
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M7640.D	1	08/25/08	LP	08/25/08	OP34368	E3M309
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	680	9.7	ug/kg	
95-57-8	2-Chlorophenol	ND	170	28	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	41	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	36	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	42	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	680	370	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	680	36	ug/kg	
95-48-7	2-Methylphenol	ND	68	37	ug/kg	
	3&4-Methylphenol	ND	68	46	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	680	44	ug/kg	
87-86-5	Pentachlorophenol	ND	340	44	ug/kg	
108-95-2	Phenol	ND	68	26	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	45	ug/kg	
83-32-9	Acenaphthene	ND	34	18	ug/kg	
208-96-8	Acenaphthylene	ND	34	15	ug/kg	
62-53-3	Aniline	ND	68	9.1	ug/kg	
120-12-7	Anthracene	ND	34	15	ug/kg	
92-87-5	Benzidine	ND	680	180	ug/kg	
56-55-3	Benzo(a)anthracene	27.1	34	21	ug/kg	J
50-32-8	Benzo(a)pyrene	20.0	34	14	ug/kg	J
205-99-2	Benzo(b)fluoranthene	ND	34	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	34	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	23.3	34	17	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	68	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	68	17	ug/kg	
91-58-7	2-Chloronaphthalene	ND	68	15	ug/kg	
106-47-8	4-Chloroaniline	ND	170	14	ug/kg	
86-74-8	Carbazole	ND	68	15	ug/kg	
218-01-9	Chrysene	31.0	34	16	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	68	17	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-8 (22-28)		
Lab Sample ID:	J98787-1	**Date Sampled:**	08/20/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.2
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	68	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	68	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	68	23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	68	18	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	68	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	68	14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	68	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	68	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	68	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	59	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	16	ug/kg	
132-64-9	Dibenzofuran	ND	68	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	68	21	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	68	15	ug/kg	
84-66-2	Diethyl phthalate	ND	68	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	68	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	64.6	68	18	ug/kg	J
206-44-0	Fluoranthene	57.7	34	16	ug/kg	
86-73-7	Fluorene	ND	34	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	68	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	68	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	680	32	ug/kg	
67-72-1	Hexachloroethane	ND	170	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	13.8	34	13	ug/kg	J
78-59-1	Isophorone	ND	68	30	ug/kg	
91-57-6	2-Methylnaphthalene	ND	68	15	ug/kg	
88-74-4	2-Nitroaniline	ND	170	25	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	21	ug/kg	
91-20-3	Naphthalene	ND	34	15	ug/kg	
98-95-3	Nitrobenzene	ND	68	15	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	68	30	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	68	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	23	ug/kg	
85-01-8	Phenanthrene	44.2	34	17	ug/kg	
129-00-0	Pyrene	50.7	34	15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	68	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-8 (22-28)		
Lab Sample ID:	J98787-1	**Date Sampled:**	08/20/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.2
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64% [a]		29-114%
4165-62-2	Phenol-d5	64% [a]		31-111%
118-79-6	2,4,6-Tribromophenol	70% [a]		27-133%
4165-60-0	Nitrobenzene-d5	59% [a]		36-116%
321-60-8	2-Fluorobiphenyl	63% [a]		44-111%
1718-51-0	Terphenyl-d14	68% [a]		37-131%

(a) Surrogate added twice.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-8 (22-28)		
Lab Sample ID:	J98787-1	**Date Sampled:**	08/20/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8015	**Percent Solids:**	97.2
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF67860.D	1	08/27/08	DCA	n/a	n/a	GPF1448
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.4 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	9.8	2.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	100%		42-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: GP-8 (22-28)
Lab Sample ID: J98787-1 **Date Sampled:** 08/20/08
Matrix: SO - Soil **Date Received:** 08/22/08
Method: SW846 8082 SW846 3545 **Percent Solids:** 97.2
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB76095.D	1	08/27/08	JSE	08/25/08	OP34372	GAB5093
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	6.4	ug/kg	
11104-28-2	Aroclor 1221	ND	34	20	ug/kg	
11141-16-5	Aroclor 1232	ND	34	18	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	12	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	ND	34	6.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		44-139%
877-09-8	Tetrachloro-m-xylene	83%		44-139%
2051-24-3	Decachlorobiphenyl	94%		39-147%
2051-24-3	Decachlorobiphenyl	86%		39-147%

ND = Not detected MDL - Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-8 (22-28)
Lab Sample ID: J98787-1 **Date Sampled:** 08/20/08
Matrix: SO - Soil **Date Received:** 08/22/08
Method: SW846-8015 SW846 3545 **Percent Solids:** 97.2
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Y7623.D	1	08/26/08	PM	08/25/08	OP34373	G3Y258
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	6.7	1.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		31-152%
16416-32-3	Tetracosane-d50	92%		34-153%
438-22-2	5a-Androstane	82%		36-151%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-8 (22-28)		
Lab Sample ID:	J98787-1	**Date Sampled:**	08/20/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
		Percent Solids:	97.2
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.0	2.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Arsenic	2.6	2.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Beryllium	< 0.50	0.50	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Cadmium	< 0.50	0.50	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Chromium	13.7	1.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Copper	4.0	2.5	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Lead	2.1	2.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Mercury	< 0.034	0.034	mg/kg	1	08/28/08	08/28/08	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	4.0	4.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Selenium	< 2.0	2.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Silver	< 1.0	1.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Thallium	< 1.0	1.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Zinc	8.0	2.0	mg/kg	1	08/27/08	08/29/08	ND	SW846 6010B [3]	SW846 3050B [4]

(1) Instrument QC Batch: MA21371
(2) Instrument QC Batch: MA21375
(3) Instrument QC Batch: MA21379
(4) Prep QC Batch: MP44971
(5) Prep QC Batch: MP44995

RL = Reporting Limit

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Report of Analysis

Client Sample ID: GP-8 (22-28)
Lab Sample ID: J98787-2 **Date Sampled:** 08/21/08
Matrix: AQ - Ground Water **Date Received:** 08/22/08
Method: SW846 8260B **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X83039.D	1	08/29/08	YXC	n/a	n/a	VX3432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	2.3	5.0	0.88	ug/l	J
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-8 (22-28)		
Lab Sample ID:	J98787-2	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		72-120%
17060-07-0	1,2-Dichloroethane-D4	99%		59-137%
2037-26-5	Toluene-D8	97%		73-116%
460-00-4	4-Bromofluorobenzene	92%		69-126%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GP-8 (22-28)
Lab Sample ID: J98787-2 **Date Sampled:** 08/21/08
Matrix: AQ - Ground Water **Date Received:** 08/22/08
Method: SW846 8270C SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M7665.D	1	08/26/08	LP	08/25/08	OP34376	E3M310
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	20	3.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	1.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	4.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	1.2	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.4	ug/l	
	3&4-Methylphenol	ND	2.0	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	2.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.6	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.38	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.54	ug/l	
62-53-3	Aniline	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	1.0	0.42	ug/l	
92-87-5	Benzidine	ND	20	8.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.38	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.53	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.46	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.57	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.41	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.33	ug/l	
86-74-8	Carbazole	0.57	2.0	0.45	ug/l	J
218-01-9	Chrysene	ND	1.0	0.44	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.52	ug/l	

ND = Not detected MDL - Method Detection Limit
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Report of Analysis

Client Sample ID:	GP-8 (22-28)		
Lab Sample ID:	J98787-2	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.45	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.35	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	2.0	0.52	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.33	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	4.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.45	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.50	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.36	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.75	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.40	ug/l	
86-73-7	Fluorene	ND	1.0	0.40	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	0.45	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.38	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	4.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.42	ug/l	
78-59-1	Isophorone	ND	2.0	0.69	ug/l	
91-57-6	2-Methylnaphthalene	0.58	2.0	0.43	ug/l	J
88-74-4	2-Nitroaniline	ND	5.0	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.45	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.45	ug/l	
91-20-3	Naphthalene	ND	1.0	0.32	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.66	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.36	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.39	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	0.69	1.0	0.34	ug/l	J
129-00-0	Pyrene	ND	1.0	0.48	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.37	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-8 (22-28)		
Lab Sample ID:	J98787-2	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		10-69%
4165-62-2	Phenol-d5	26%		10-52%
118-79-6	2,4,6-Tribromophenol	96%		32-134%
4165-60-0	Nitrobenzene-d5	61%		23-116%
321-60-8	2-Fluorobiphenyl	55%		28-109%
1718-51-0	Terphenyl-d14	84%		24-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-8 (22-28)		
Lab Sample ID:	J98787-2	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV59453.D	1	08/25/08	DCA	n/a	n/a	GUV2625
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	89%		51-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-8 (22-28)		
Lab Sample ID:	J98787-2	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB76113.D	1	08/27/08	JSE	08/25/08	OP34378	GAB5094
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.094	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.47	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.16	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	102%		23-131%
877-09-8	Tetrachloro-m-xylene	111%		23-131%
2051-24-3	Decachlorobiphenyl	140% [a]		12-139%
2051-24-3	Decachlorobiphenyl	147% [a]		12-139%

(a) Outside control limits due to possible extract concentration.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-8 (22-28)
Lab Sample ID: J98787-2 **Date Sampled:** 08/21/08
Matrix: AQ - Ground Water **Date Received:** 08/22/08
Method: SW846-8015 SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ51593.D	1	08/25/08	PM	08/25/08	OP34374	GZZ1671
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.10	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		31-132%
16416-32-3	Tetracosane-d50	110%		26-139%
438-22-2	5a-Androstane	89%		26-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-8 (22-28)
Lab Sample ID: J98787-2
Matrix: AQ - Ground Water
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/21/08
Date Received: 08/22/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/27/08	08/27/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 2.0	2.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21363
(2) Instrument QC Batch: MA21369
(3) Prep QC Batch: MP44958
(4) Prep QC Batch: MP44983

RL = Reporting Limit

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-8 (22-28)
Lab Sample ID: J98787-2F
Matrix: AQ - Groundwater Filtered
Date Sampled: 08/21/08
Date Received: 08/22/08
Percent Solids: n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Arsenic	< 3.0	3.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Beryllium	< 1.0	1.0	ug/l	1	08/26/08	08/27/08	ND	SW846 6010B [3]	SW846 3010A [4]
Cadmium	< 4.0	4.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Lead	< 3.0	3.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	08/27/08	08/27/08	JF	SW846 7470A [2]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Thallium	< 2.0	2.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA21363
(2) Instrument QC Batch: MA21369
(3) Instrument QC Batch: MA21372
(4) Prep QC Batch: MP44958
(5) Prep QC Batch: MP44983

RL = Reporting Limit

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: J98787-3 **Date Sampled:** 08/21/08
Matrix: AQ - Trip Blank Water **Date Received:** 08/22/08
Method: SW846 8260B **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X83036.D	1	08/29/08	YXC	n/a	n/a	VX3432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	J98787-3	**Date Sampled:**	08/21/08
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/22/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		72-120%
17060-07-0	1,2-Dichloroethane-D4	107%		59-137%
2037-26-5	Toluene-D8	96%		73-116%
460-00-4	4-Bromofluorobenzene	94%		69-126%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-11 (24-27)		
Lab Sample ID:	J98787-4	**Date Sampled:**	08/21/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8260B	**Percent Solids:**	93.7
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V82421.D	1	08/28/08	JLI	n/a	n/a	VV3328
Run #2							

	Initial Weight
Run #1	6.1 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	8.7	1.9	ug/kg	
107-02-8	Acrolein	ND	44	9.4	ug/kg	
107-13-1	Acrylonitrile	ND	44	1.2	ug/kg	
71-43-2	Benzene	ND	0.87	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	4.4	0.23	ug/kg	
75-25-2	Bromoform	ND	4.4	0.29	ug/kg	
74-83-9	Bromomethane	ND	4.4	0.77	ug/kg	
78-93-3	2-Butanone (MEK)	ND	8.7	1.9	ug/kg	
104-51-8	n-Butylbenzene	ND	4.4	1.5	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.4	0.43	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.4	0.25	ug/kg	
75-15-0	Carbon disulfide	ND	4.4	0.44	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.4	0.82	ug/kg	
108-90-7	Chlorobenzene	ND	4.4	0.26	ug/kg	
75-00-3	Chloroethane	ND	4.4	0.59	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	22	1.2	ug/kg	
67-66-3	Chloroform	ND	4.4	0.41	ug/kg	
74-87-3	Chloromethane	ND	4.4	0.62	ug/kg	
124-48-1	Dibromochloromethane	ND	4.4	0.24	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.4	0.32	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.4	0.27	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.4	0.27	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.4	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.4	0.34	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.87	0.37	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.4	0.46	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.4	0.32	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.4	0.28	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.4	0.34	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.4	0.24	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.4	0.21	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.4	0.22	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-11 (24-27)		
Lab Sample ID:	J98787-4	**Date Sampled:**	08/21/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8260B	**Percent Solids:**	93.7
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	0.87	0.35	ug/kg	
76-13-1	Freon 113	ND	4.4	0.94	ug/kg	
591-78-6	2-Hexanone	ND	4.4	1.7	ug/kg	
98-82-8	Isopropylbenzene	ND	4.4	0.39	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.4	0.44	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.87	0.31	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.4	2.1	ug/kg	
75-09-2	Methylene chloride	ND	4.4	0.25	ug/kg	
91-20-3	Naphthalene	ND	4.4	0.42	ug/kg	
103-65-1	n-Propylbenzene	ND	4.4	0.42	ug/kg	
100-42-5	Styrene	ND	4.4	0.25	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.4	0.22	ug/kg	
127-18-4	Tetrachloroethene	ND	4.4	0.41	ug/kg	
108-88-3	Toluene	ND	0.87	0.29	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.4	0.37	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.4	0.46	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.4	0.22	ug/kg	
79-01-6	Trichloroethene	ND	4.4	0.26	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.4	1.3	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.4	1.9	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.4	0.21	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.4	0.30	ug/kg	
75-01-4	Vinyl chloride	ND	4.4	0.55	ug/kg	
	m,p-Xylene	ND	1.7	0.58	ug/kg	
95-47-6	o-Xylene	ND	0.87	0.26	ug/kg	
1330-20-7	Xylene (total)	ND	1.7	0.26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		67-125%
17060-07-0	1,2-Dichloroethane-D4	90%		64-131%
2037-26-5	Toluene-D8	99%		73-124%
460-00-4	4-Bromofluorobenzene	88%		61-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-11 (24-27)		
Lab Sample ID:	J98787-4	**Date Sampled:**	08/21/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	93.7
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M7641.D	1	08/26/08	LP	08/25/08	OP34368	E3M309
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	710	10	ug/kg	
95-57-8	2-Chlorophenol	ND	180	29	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	43	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	37	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	43	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	710	380	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	710	38	ug/kg	
95-48-7	2-Methylphenol	ND	71	38	ug/kg	
	3&4-Methylphenol	ND	71	48	ug/kg	
88-75-5	2-Nitrophenol	ND	180	37	ug/kg	
100-02-7	4-Nitrophenol	ND	710	46	ug/kg	
87-86-5	Pentachlorophenol	ND	360	46	ug/kg	
108-95-2	Phenol	ND	71	27	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	38	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	47	ug/kg	
83-32-9	Acenaphthene	ND	36	19	ug/kg	
208-96-8	Acenaphthylene	ND	36	15	ug/kg	
62-53-3	Aniline	ND	71	9.4	ug/kg	
120-12-7	Anthracene	ND	36	16	ug/kg	
92-87-5	Benzidine	ND	710	180	ug/kg	
56-55-3	Benzo(a)anthracene	ND	36	22	ug/kg	
50-32-8	Benzo(a)pyrene	ND	36	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	36	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	36	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	36	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	71	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	71	18	ug/kg	
91-58-7	2-Chloronaphthalene	ND	71	16	ug/kg	
106-47-8	4-Chloroaniline	ND	180	14	ug/kg	
86-74-8	Carbazole	ND	71	15	ug/kg	
218-01-9	Chrysene	ND	36	16	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	71	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-11 (24-27)		
Lab Sample ID:	J98787-4	**Date Sampled:**	08/21/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	93.7
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	71	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	71	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	71	24	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	71	19	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	71	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	71	15	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	71	14	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	71	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	71	16	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	62	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	36	17	ug/kg	
132-64-9	Dibenzofuran	ND	71	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	71	22	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	71	16	ug/kg	
84-66-2	Diethyl phthalate	ND	71	16	ug/kg	
131-11-3	Dimethyl phthalate	ND	71	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	60.6	71	19	ug/kg	J
206-44-0	Fluoranthene	ND	36	16	ug/kg	
86-73-7	Fluorene	ND	36	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	71	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	71	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	710	34	ug/kg	
67-72-1	Hexachloroethane	ND	180	23	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36	13	ug/kg	
78-59-1	Isophorone	ND	71	31	ug/kg	
91-57-6	2-Methylnaphthalene	ND	71	16	ug/kg	
88-74-4	2-Nitroaniline	ND	180	26	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	22	ug/kg	
91-20-3	Naphthalene	ND	36	15	ug/kg	
98-95-3	Nitrobenzene	ND	71	16	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	71	31	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	71	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	24	ug/kg	
85-01-8	Phenanthrene	ND	36	18	ug/kg	
129-00-0	Pyrene	ND	36	16	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	71	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-11 (24-27)		
Lab Sample ID:	J98787-4	**Date Sampled:**	08/21/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	93.7
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	85%		29-114%
4165-62-2	Phenol-d5	84%		31-111%
118-79-6	2,4,6-Tribromophenol	94%		27-133%
4165-60-0	Nitrobenzene-d5	76%		36-116%
321-60-8	2-Fluorobiphenyl	78%		44-111%
1718-51-0	Terphenyl-d14	89%		37-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	GP-11 (24-27)		
Lab Sample ID:	J98787-4	**Date Sampled:**	08/21/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8015	**Percent Solids:**	93.7
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF67861.D	1	08/27/08	DCA	n/a	n/a	GPF1448
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.3 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	2.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	100%		42-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: GP-11 (24-27)
Lab Sample ID: J98787-4 **Date Sampled:** 08/21/08
Matrix: SO - Soil **Date Received:** 08/22/08
Method: SW846 8082 SW846 3545 **Percent Solids:** 93.7
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB76096.D	1	08/27/08	JSE	08/25/08	OP34372	GAB5093
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	19	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	12	ug/kg	
11097-69-1	Aroclor 1254	ND	35	17	ug/kg	
11096-82-5	Aroclor 1260	ND	35	7.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		44-139%
877-09-8	Tetrachloro-m-xylene	112%		44-139%
2051-24-3	Decachlorobiphenyl	114%		39-147%
2051-24-3	Decachlorobiphenyl	112%		39-147%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-11 (24-27)
Lab Sample ID: J98787-4 **Date Sampled:** 08/21/08
Matrix: SO - Soil **Date Received:** 08/22/08
Method: SW846-8015 SW846 3545 **Percent Solids:** 93.7
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Y7632.D	1	08/26/08	PM	08/25/08	OP34373	G3Y258
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	7.1	1.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	109%		31-152%
16416-32-3	Tetracosane-d50	125%		34-153%
438-22-2	5a-Androstane	112%		36-151%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GP-11 (24-27)
Lab Sample ID: J98787-4
Matrix: SO - Soil
Date Sampled: 08/21/08
Date Received: 08/22/08
Percent Solids: 93.7
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.1	2.1	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Arsenic	< 2.1	2.1	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Beryllium	< 0.51	0.51	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Cadmium	< 0.51	0.51	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Chromium	5.9	1.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Copper	3.0	2.6	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Lead	< 2.1	2.1	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Mercury	< 0.032	0.032	mg/kg	1	08/28/08	08/28/08	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	< 4.1	4.1	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Selenium	< 2.1	2.1	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Silver	< 1.0	1.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Thallium	< 1.0	1.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Zinc	4.6	2.1	mg/kg	1	08/27/08	08/29/08	ND	SW846 6010B [3]	SW846 3050B [4]

(1) Instrument QC Batch: MA21371
(2) Instrument QC Batch: MA21375
(3) Instrument QC Batch: MA21379
(4) Prep QC Batch: MP44971
(5) Prep QC Batch: MP44995

RL = Reporting Limit

Report of Analysis

Client Sample ID: GP-11
Lab Sample ID: J98787-5 **Date Sampled:** 08/21/08
Matrix: AQ - Ground Water **Date Received:** 08/22/08
Method: SW846 8260B **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X83040.D	1	08/29/08	YXC	n/a	n/a	VX3432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-11		
Lab Sample ID:	J98787-5	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		72-120%
17060-07-0	1,2-Dichloroethane-D4	105%		59-137%
2037-26-5	Toluene-D8	98%		73-116%
460-00-4	4-Bromofluorobenzene	92%		69-126%

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N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-11
Lab Sample ID: J98787-5 **Date Sampled:** 08/21/08
Matrix: AQ - Ground Water **Date Received:** 08/22/08
Method: SW846 8270C SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M7666.D	1	08/26/08	LP	08/25/08	OP34376	E3M310
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	5.0	20	3.5	ug/l	J
95-57-8	2-Chlorophenol	ND	5.0	1.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	4.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	1.2	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.4	ug/l	
	3&4-Methylphenol	ND	2.0	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	2.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.6	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.38	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.54	ug/l	
62-53-3	Aniline	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	1.0	0.42	ug/l	
92-87-5	Benzidine	ND	20	8.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.38	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.53	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.46	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.57	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.41	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.33	ug/l	
86-74-8	Carbazole	0.64	2.0	0.45	ug/l	J
218-01-9	Chrysene	ND	1.0	0.44	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.52	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-11		
Lab Sample ID:	J98787-5	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.45	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.35	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	2.0	0.52	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.33	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	4.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.45	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	6.1	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.50	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.36	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	4.3	2.0	0.75	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.40	ug/l	
86-73-7	Fluorene	ND	1.0	0.40	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	0.45	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.38	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	4.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.42	ug/l	
78-59-1	Isophorone	ND	2.0	0.69	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.45	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.45	ug/l	
91-20-3	Naphthalene	ND	1.0	0.32	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.66	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.36	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.39	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	0.76	1.0	0.34	ug/l	J
129-00-0	Pyrene	ND	1.0	0.48	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.37	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-11		
Lab Sample ID:	J98787-5	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		10-69%
4165-62-2	Phenol-d5	28%		10-52%
118-79-6	2,4,6-Tribromophenol	92%		32-134%
4165-60-0	Nitrobenzene-d5	63%		23-116%
321-60-8	2-Fluorobiphenyl	57%		28-109%
1718-51-0	Terphenyl-d14	81%		24-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-11		
Lab Sample ID:	J98787-5	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV59456.D	1	08/25/08	DCA	n/a	n/a	GUV2625
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	89%		51-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-11		
Lab Sample ID:	J98787-5	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB76114.D	1	08/27/08	JSE	08/25/08	OP34378	GAB5094
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.094	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.47	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.16	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		23-131%
877-09-8	Tetrachloro-m-xylene	87%		23-131%
2051-24-3	Decachlorobiphenyl	60%		12-139%
2051-24-3	Decachlorobiphenyl	60%		12-139%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-11		
Lab Sample ID:	J98787-5	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846-8015 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ51592.D	1	08/25/08	PM	08/25/08	OP34374	GZZ1671
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.121	0.10	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	61%		31-132%
16416-32-3	Tetracosane-d50	73%		26-139%
438-22-2	5a-Androstane	62%		26-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-11
Lab Sample ID: J98787-5
Matrix: AQ - Ground Water
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/21/08
Date Received: 08/22/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/27/08	08/27/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 2.0	2.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21363
(2) Instrument QC Batch: MA21369
(3) Prep QC Batch: MP44958
(4) Prep QC Batch: MP44983

RL = Reporting Limit

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-11
Lab Sample ID: J98787-5F
Matrix: AQ - Groundwater Filtered
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/21/08
Date Received: 08/22/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Arsenic	< 3.0	3.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Beryllium	< 1.0	1.0	ug/l	1	08/26/08	08/27/08	ND	SW846 6010B [3]	SW846 3010A [4]
Cadmium	< 4.0	4.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Lead	< 3.0	3.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	08/27/08	08/27/08	JF	SW846 7470A [2]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Thallium	< 2.0	2.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA21363
(2) Instrument QC Batch: MA21369
(3) Instrument QC Batch: MA21372
(4) Prep QC Batch: MP44958
(5) Prep QC Batch: MP44983

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-12 (24-28)		
Lab Sample ID:	J98787-6	**Date Sampled:**	08/17/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8260B	**Percent Solids:**	94.6
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V82422.D	1	08/28/08	JLI	n/a	n/a	VV3328
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	2.3	ug/kg	
107-02-8	Acrolein	ND	53	11	ug/kg	
107-13-1	Acrylonitrile	ND	53	1.4	ug/kg	
71-43-2	Benzene	ND	1.1	0.37	ug/kg	
75-27-4	Bromodichloromethane	ND	5.3	0.27	ug/kg	
75-25-2	Bromoform	ND	5.3	0.35	ug/kg	
74-83-9	Bromomethane	ND	5.3	0.93	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.3	ug/kg	
104-51-8	n-Butylbenzene	ND	5.3	1.8	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.3	0.51	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.3	0.30	ug/kg	
75-15-0	Carbon disulfide	ND	5.3	0.53	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.3	0.99	ug/kg	
108-90-7	Chlorobenzene	ND	5.3	0.31	ug/kg	
75-00-3	Chloroethane	ND	5.3	0.72	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	26	1.4	ug/kg	
67-66-3	Chloroform	ND	5.3	0.49	ug/kg	
74-87-3	Chloromethane	ND	5.3	0.75	ug/kg	
124-48-1	Dibromochloromethane	ND	5.3	0.28	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.3	0.39	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.3	0.32	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.3	0.33	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.3	1.7	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.3	0.41	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.45	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.3	0.55	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.3	0.38	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.3	0.34	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.3	0.41	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.3	0.29	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	0.26	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	0.26	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-12 (24-28)		
Lab Sample ID:	J98787-6	**Date Sampled:**	08/17/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8260B	**Percent Solids:**	94.6
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.1	0.43	ug/kg	
76-13-1	Freon 113	ND	5.3	1.1	ug/kg	
591-78-6	2-Hexanone	ND	5.3	2.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.3	0.47	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.3	0.53	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.37	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.3	2.5	ug/kg	
75-09-2	Methylene chloride	ND	5.3	0.31	ug/kg	
91-20-3	Naphthalene	ND	5.3	0.51	ug/kg	
103-65-1	n-Propylbenzene	ND	5.3	0.51	ug/kg	
100-42-5	Styrene	ND	5.3	0.30	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	0.27	ug/kg	
127-18-4	Tetrachloroethene	ND	5.3	0.49	ug/kg	
108-88-3	Toluene	ND	1.1	0.35	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.3	0.44	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.3	0.56	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.3	0.27	ug/kg	
79-01-6	Trichloroethene	ND	5.3	0.31	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.3	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.3	2.3	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.3	0.26	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.3	0.37	ug/kg	
75-01-4	Vinyl chloride	ND	5.3	0.67	ug/kg	
	m,p-Xylene	ND	2.1	0.70	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.32	ug/kg	
1330-20-7	Xylene (total)	ND	2.1	0.32	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		67-125%
17060-07-0	1,2-Dichloroethane-D4	92%		64-131%
2037-26-5	Toluene-D8	100%		73-124%
460-00-4	4-Bromofluorobenzene	88%		61-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GP-12 (24-28)
Lab Sample ID: J98787-6 **Date Sampled:** 08/17/08
Matrix: SO - Soil **Date Received:** 08/22/08
Method: SW846 8270C SW846 3550B **Percent Solids:** 94.6
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M7642.D	1	08/26/08	LP	08/25/08	OP34368	E3M309
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	700	10	ug/kg	
95-57-8	2-Chlorophenol	ND	180	29	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	43	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	37	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	43	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	700	380	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	700	37	ug/kg	
95-48-7	2-Methylphenol	ND	70	38	ug/kg	
	3&4-Methylphenol	ND	70	47	ug/kg	
88-75-5	2-Nitrophenol	ND	180	37	ug/kg	
100-02-7	4-Nitrophenol	ND	700	45	ug/kg	
87-86-5	Pentachlorophenol	ND	350	45	ug/kg	
108-95-2	Phenol	ND	70	27	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	38	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	47	ug/kg	
83-32-9	Acenaphthene	ND	35	19	ug/kg	
208-96-8	Acenaphthylene	ND	35	15	ug/kg	
62-53-3	Aniline	ND	70	9.3	ug/kg	
120-12-7	Anthracene	ND	35	16	ug/kg	
92-87-5	Benzidine	ND	700	180	ug/kg	
56-55-3	Benzo(a)anthracene	ND	35	21	ug/kg	
50-32-8	Benzo(a)pyrene	ND	35	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	35	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	35	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	35	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	70	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	70	18	ug/kg	
91-58-7	2-Chloronaphthalene	ND	70	16	ug/kg	
106-47-8	4-Chloroaniline	ND	180	14	ug/kg	
86-74-8	Carbazole	ND	70	15	ug/kg	
218-01-9	Chrysene	16.7	35	16	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	70	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-12 (24-28)		
Lab Sample ID:	J98787-6	**Date Sampled:**	08/17/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	94.6
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	70	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	70	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	70	23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	70	19	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	70	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	70	15	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	70	14	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	70	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	70	16	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	61	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	17	ug/kg	
132-64-9	Dibenzofuran	ND	70	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	70	22	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	70	16	ug/kg	
84-66-2	Diethyl phthalate	ND	70	16	ug/kg	
131-11-3	Dimethyl phthalate	ND	70	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	70	18	ug/kg	
206-44-0	Fluoranthene	24.8	35	16	ug/kg	J
86-73-7	Fluorene	ND	35	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	70	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	70	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	700	33	ug/kg	
67-72-1	Hexachloroethane	ND	180	23	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	35	13	ug/kg	
78-59-1	Isophorone	ND	70	31	ug/kg	
91-57-6	2-Methylnaphthalene	ND	70	16	ug/kg	
88-74-4	2-Nitroaniline	ND	180	26	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	22	ug/kg	
91-20-3	Naphthalene	ND	35	15	ug/kg	
98-95-3	Nitrobenzene	ND	70	16	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	70	31	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	70	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	24	ug/kg	
85-01-8	Phenanthrene	ND	35	17	ug/kg	
129-00-0	Pyrene	21.0	35	16	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	70	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-12 (24-28)		
Lab Sample ID:	J98787-6	**Date Sampled:**	08/17/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	94.6
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67% [a]		29-114%
4165-62-2	Phenol-d5	68% [a]		31-111%
118-79-6	2,4,6-Tribromophenol	79% [a]		27-133%
4165-60-0	Nitrobenzene-d5	61% [a]		36-116%
321-60-8	2-Fluorobiphenyl	63% [a]		44-111%
1718-51-0	Terphenyl-d14	73% [a]		37-131%

(a) Surrogate added twice.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-12 (24-28)		
Lab Sample ID:	J98787-6	**Date Sampled:**	08/17/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8015	**Percent Solids:**	94.6
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF67862.D	1	08/27/08	DCA	n/a	n/a	GPF1448
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.2 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	2.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	102%		42-141%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-12 (24-28)
Lab Sample ID: J98787-6 **Date Sampled:** 08/17/08
Matrix: SO - Soil **Date Received:** 08/22/08
Method: SW846 8082 SW846 3545 **Percent Solids:** 94.6
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB76097.D	1	08/27/08	JSE	08/25/08	OP34372	GAB5093
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	6.6	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	19	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	12	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	ND	35	7.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		44-139%
877-09-8	Tetrachloro-m-xylene	78%		44-139%
2051-24-3	Decachlorobiphenyl	79%		39-147%
2051-24-3	Decachlorobiphenyl	77%		39-147%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-12 (24-28)
Lab Sample ID: J98787-6 **Date Sampled:** 08/17/08
Matrix: SO - Soil **Date Received:** 08/22/08
Method: SW846-8015 SW846 3545 **Percent Solids:** 94.6
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Y7633.D	1	08/26/08	PM	08/25/08	OP34373	G3Y258
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	7.0	1.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		31-152%
16416-32-3	Tetracosane-d50	89%		34-153%
438-22-2	5a-Androstane	81%		36-151%

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N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-12 (24-28)
Lab Sample ID: J98787-6
Matrix: SO - Soil
Date Sampled: 08/17/08
Date Received: 08/22/08
Percent Solids: 94.6
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.1	2.1	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Arsenic	< 2.1	2.1	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Beryllium	< 0.53	0.53	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Cadmium	< 0.53	0.53	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Chromium	5.2	1.1	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Copper	3.4	2.6	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Lead	2.5	2.1	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Mercury	< 0.033	0.033	mg/kg	1	08/28/08	08/28/08	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	< 4.2	4.2	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Selenium	< 2.1	2.1	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Silver	< 1.1	1.1	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Thallium	< 1.1	1.1	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Zinc	5.2	2.1	mg/kg	1	08/27/08	08/29/08	ND	SW846 6010B [3]	SW846 3050B [4]

(1) Instrument QC Batch: MA21371
(2) Instrument QC Batch: MA21375
(3) Instrument QC Batch: MA21379
(4) Prep QC Batch: MP44971
(5) Prep QC Batch: MP44995

RL = Reporting Limit

Report of Analysis

Client Sample ID: GP-12
Lab Sample ID: J98787-7 **Date Sampled:** 08/21/08
Matrix: AQ - Ground Water **Date Received:** 08/22/08
Method: SW846 8260B **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X83041.D	1	08/29/08	YXC	n/a	n/a	VX3432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-12		
Lab Sample ID:	J98787-7	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		72-120%
17060-07-0	1,2-Dichloroethane-D4	111%		59-137%
2037-26-5	Toluene-D8	97%		73-116%
460-00-4	4-Bromofluorobenzene	94%		69-126%

ND = Not detected MDL - Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GP-12
Lab Sample ID: J98787-7 **Date Sampled:** 08/21/08
Matrix: AQ - Ground Water **Date Received:** 08/22/08
Method: SW846 8270C SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M7667.D	1	08/26/08	LP	08/25/08	OP34376	E3M310
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	20	3.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	1.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	4.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	1.2	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.4	ug/l	
	3&4-Methylphenol	ND	2.0	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	2.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.6	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.38	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.54	ug/l	
62-53-3	Aniline	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	1.0	0.42	ug/l	
92-87-5	Benzidine	ND	20	8.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.38	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.53	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.46	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.57	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.41	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.33	ug/l	
86-74-8	Carbazole	ND	2.0	0.45	ug/l	
218-01-9	Chrysene	ND	1.0	0.44	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.52	ug/l	

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Report of Analysis

Client Sample ID:	GP-12		
Lab Sample ID:	J98787-7	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.45	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.35	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	2.0	0.52	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.33	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	4.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.45	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.50	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.36	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.75	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.40	ug/l	
86-73-7	Fluorene	ND	1.0	0.40	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	0.45	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.38	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	4.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.42	ug/l	
78-59-1	Isophorone	ND	2.0	0.69	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.45	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.45	ug/l	
91-20-3	Naphthalene	ND	1.0	0.32	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.66	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.36	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.39	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	0.63	1.0	0.34	ug/l	J
129-00-0	Pyrene	ND	1.0	0.48	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.37	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-12		
Lab Sample ID:	J98787-7	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		10-69%
4165-62-2	Phenol-d5	29%		10-52%
118-79-6	2,4,6-Tribromophenol	91%		32-134%
4165-60-0	Nitrobenzene-d5	68%		23-116%
321-60-8	2-Fluorobiphenyl	61%		28-109%
1718-51-0	Terphenyl-d14	84%		24-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	GP-12		
Lab Sample ID:	J98787-7	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV59457.D	1	08/25/08	DCA	n/a	n/a	GUV2625
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	91%		51-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-12		
Lab Sample ID:	J98787-7	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB76110.D	1	08/27/08	JSE	08/25/08	OP34378	GAB5094
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.094	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.47	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.16	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73%		23-131%
877-09-8	Tetrachloro-m-xylene	77%		23-131%
2051-24-3	Decachlorobiphenyl	79%		12-139%
2051-24-3	Decachlorobiphenyl	78%		12-139%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	GP-12		
Lab Sample ID:	J98787-7	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846-8015 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ51594.D	1	08/25/08	PM	08/25/08	OP34374	GZZ1671
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.10	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		31-132%
16416-32-3	Tetracosane-d50	89%		26-139%
438-22-2	5a-Androstane	70%		26-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-12		
Lab Sample ID:	J98787-7	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
		Percent Solids:	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Lead	3.9	3.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/27/08	08/27/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 2.0	2.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21363
(2) Instrument QC Batch: MA21369
(3) Prep QC Batch: MP44958
(4) Prep QC Batch: MP44983

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	GP-12		
Lab Sample ID:	J98787-7F	**Date Sampled:**	08/21/08
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/22/08
		Percent Solids:	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Arsenic	< 3.0	3.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Beryllium	< 1.0	1.0	ug/l	1	08/26/08	08/27/08	ND	SW846 6010B [3]	SW846 3010A [4]
Cadmium	< 4.0	4.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Lead	< 3.0	3.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	08/27/08	08/27/08	JF	SW846 7470A [2]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Thallium	< 2.0	2.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA21363
(2) Instrument QC Batch: MA21369
(3) Instrument QC Batch: MA21372
(4) Prep QC Batch: MP44958
(5) Prep QC Batch: MP44983

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-17 (24-27)		
Lab Sample ID:	J98787-8	**Date Sampled:**	08/17/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8260B	**Percent Solids:**	97.0
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V82345.D	1	08/27/08	JLI	n/a	n/a	VV3325
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.2	ug/kg	
107-02-8	Acrolein	ND	52	11	ug/kg	
107-13-1	Acrylonitrile	ND	52	1.4	ug/kg	
71-43-2	Benzene	ND	1.0	0.36	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	0.27	ug/kg	
75-25-2	Bromoform	ND	5.2	0.35	ug/kg	
74-83-9	Bromomethane	ND	5.2	0.91	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/kg	
104-51-8	n-Butylbenzene	ND	5.2	1.8	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.2	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.2	0.29	ug/kg	
75-15-0	Carbon disulfide	ND	5.2	0.52	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	0.96	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	0.31	ug/kg	
75-00-3	Chloroethane	ND	5.2	0.70	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	26	1.4	ug/kg	
67-66-3	Chloroform	ND	5.2	0.48	ug/kg	
74-87-3	Chloromethane	ND	5.2	0.73	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	0.28	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.2	0.38	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.2	0.31	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.2	0.32	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.2	1.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	0.40	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.44	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.2	0.54	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.2	0.37	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.2	0.33	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	0.40	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.2	0.28	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	0.25	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	0.26	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-17 (24-27)		
Lab Sample ID:	J98787-8	**Date Sampled:**	08/17/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8260B	**Percent Solids:**	97.0
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.42	ug/kg	
76-13-1	Freon 113	ND	5.2	1.1	ug/kg	
591-78-6	2-Hexanone	ND	5.2	2.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.2	0.46	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.2	0.51	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.36	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.2	2.5	ug/kg	
75-09-2	Methylene chloride	ND	5.2	0.30	ug/kg	
91-20-3	Naphthalene	ND	5.2	0.50	ug/kg	
103-65-1	n-Propylbenzene	ND	5.2	0.49	ug/kg	
100-42-5	Styrene	ND	5.2	0.30	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	0.26	ug/kg	
127-18-4	Tetrachloroethene	ND	5.2	0.48	ug/kg	
108-88-3	Toluene	ND	1.0	0.34	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	0.43	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	0.54	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	0.26	ug/kg	
79-01-6	Trichloroethene	ND	5.2	0.30	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.2	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.2	2.3	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.2	0.25	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.2	0.36	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	0.65	ug/kg	
	m,p-Xylene	ND	2.1	0.68	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.31	ug/kg	
1330-20-7	Xylene (total)	ND	2.1	0.31	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		67-125%
17060-07-0	1,2-Dichloroethane-D4	85%		64-131%
2037-26-5	Toluene-D8	99%		73-124%
460-00-4	4-Bromofluorobenzene	88%		61-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: GP-17 (24-27)
Lab Sample ID: J98787-8 **Date Sampled:** 08/17/08
Matrix: SO - Soil **Date Received:** 08/22/08
Method: SW846 8270C SW846 3550B **Percent Solids:** 97.0
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M7643.D	1	08/26/08	LP	08/25/08	OP34368	E3M309
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	690	9.7	ug/kg	
95-57-8	2-Chlorophenol	ND	170	28	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	42	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	36	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	42	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	690	370	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	690	36	ug/kg	
95-48-7	2-Methylphenol	ND	69	37	ug/kg	
	3&4-Methylphenol	ND	69	46	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	690	44	ug/kg	
87-86-5	Pentachlorophenol	ND	340	44	ug/kg	
108-95-2	Phenol	ND	69	26	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	46	ug/kg	
83-32-9	Acenaphthene	ND	34	18	ug/kg	
208-96-8	Acenaphthylene	ND	34	15	ug/kg	
62-53-3	Aniline	ND	69	9.1	ug/kg	
120-12-7	Anthracene	ND	34	15	ug/kg	
92-87-5	Benzidine	ND	690	180	ug/kg	
56-55-3	Benzo(a)anthracene	ND	34	21	ug/kg	
50-32-8	Benzo(a)pyrene	ND	34	14	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	34	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	34	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	34	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	69	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	69	17	ug/kg	
91-58-7	2-Chloronaphthalene	ND	69	15	ug/kg	
106-47-8	4-Chloroaniline	ND	170	14	ug/kg	
86-74-8	Carbazole	ND	69	15	ug/kg	
218-01-9	Chrysene	18.9	34	16	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	69	17	ug/kg	

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Report of Analysis

Client Sample ID:	GP-17 (24-27)		
Lab Sample ID:	J98787-8	**Date Sampled:**	08/17/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.0
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	69	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	69	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	69	23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	69	18	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	69	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	69	14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	69	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	69	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	69	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	59	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	16	ug/kg	
132-64-9	Dibenzofuran	ND	69	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	69	21	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	69	15	ug/kg	
84-66-2	Diethyl phthalate	ND	69	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	69	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	45.7	69	18	ug/kg	J
206-44-0	Fluoranthene	ND	34	16	ug/kg	
86-73-7	Fluorene	ND	34	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	69	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	69	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	690	32	ug/kg	
67-72-1	Hexachloroethane	ND	170	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34	13	ug/kg	
78-59-1	Isophorone	ND	69	30	ug/kg	
91-57-6	2-Methylnaphthalene	ND	69	15	ug/kg	
88-74-4	2-Nitroaniline	ND	170	25	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	21	ug/kg	
91-20-3	Naphthalene	ND	34	15	ug/kg	
98-95-3	Nitrobenzene	ND	69	15	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	69	30	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	69	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	23	ug/kg	
85-01-8	Phenanthrene	ND	34	17	ug/kg	
129-00-0	Pyrene	ND	34	15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	69	18	ug/kg	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-17 (24-27)		
Lab Sample ID:	J98787-8	**Date Sampled:**	08/17/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.0
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60% [a]		29-114%
4165-62-2	Phenol-d5	60% [a]		31-111%
118-79-6	2,4,6-Tribromophenol	71% [a]		27-133%
4165-60-0	Nitrobenzene-d5	53% [a]		36-116%
321-60-8	2-Fluorobiphenyl	55% [a]		44-111%
1718-51-0	Terphenyl-d14	63% [a]		37-131%

(a) Surrogate added twice.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-17 (24-27)		
Lab Sample ID:	J98787-8	**Date Sampled:**	08/17/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8015	**Percent Solids:**	97.0
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF67863.D	1	08/27/08	DCA	n/a	n/a	GPF1448
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.4 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	9.9	2.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	102%		42-141%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-17 (24-27)
Lab Sample ID: J98787-8 **Date Sampled:** 08/17/08
Matrix: SO - Soil **Date Received:** 08/22/08
Method: SW846 8082 SW846 3545 **Percent Solids:** 97.0
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB76098.D	1	08/27/08	JSE	08/25/08	OP34372	GAB5093
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	6.4	ug/kg	
11104-28-2	Aroclor 1221	ND	33	20	ug/kg	
11141-16-5	Aroclor 1232	ND	33	18	ug/kg	
53469-21-9	Aroclor 1242	ND	33	11	ug/kg	
12672-29-6	Aroclor 1248	ND	33	12	ug/kg	
11097-69-1	Aroclor 1254	ND	33	16	ug/kg	
11096-82-5	Aroclor 1260	ND	33	6.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		44-139%
877-09-8	Tetrachloro-m-xylene	102%		44-139%
2051-24-3	Decachlorobiphenyl	99%		39-147%
2051-24-3	Decachlorobiphenyl	97%		39-147%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-17 (24-27)
Lab Sample ID: J98787-8 **Date Sampled:** 08/17/08
Matrix: SO - Soil **Date Received:** 08/22/08
Method: SW846-8015 SW846 3545 **Percent Solids:** 97.0
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Y7634.D	1	08/26/08	PM	08/25/08	OP34373	G3Y258
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	6.7	1.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	62%		31-152%
16416-32-3	Tetracosane-d50	74%		34-153%
438-22-2	5a-Androstane	64%		36-151%

ND = Not detected MDL - Method Detection Limit
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N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-17 (24-27)
Lab Sample ID: J98787-8
Matrix: SO - Soil
Date Sampled: 08/17/08
Date Received: 08/22/08
Percent Solids: 97.0
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.0	2.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Arsenic	< 2.0	2.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Beryllium	< 0.49	0.49	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Cadmium	< 0.49	0.49	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Chromium	7.7	0.98	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Copper	3.7	2.4	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Lead	< 2.0	2.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Mercury	< 0.033	0.033	mg/kg	1	08/28/08	08/28/08	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	< 3.9	3.9	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Selenium	< 2.0	2.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Silver	< 0.98	0.98	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Thallium	< 0.98	0.98	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Zinc	6.2	2.0	mg/kg	1	08/27/08	08/29/08	ND	SW846 6010B [3]	SW846 3050B [4]

(1) Instrument QC Batch: MA21371
(2) Instrument QC Batch: MA21375
(3) Instrument QC Batch: MA21379
(4) Prep QC Batch: MP44971
(5) Prep QC Batch: MP44995

RL = Reporting Limit

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Report of Analysis

Client Sample ID: GP-17
Lab Sample ID: J98787-9 **Date Sampled:** 08/21/08
Matrix: AQ - Ground Water **Date Received:** 08/22/08
Method: SW846 8260B **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X83042.D	1	08/29/08	YXC	n/a	n/a	VX3432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-17		
Lab Sample ID:	J98787-9	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		72-120%
17060-07-0	1,2-Dichloroethane-D4	110%		59-137%
2037-26-5	Toluene-D8	97%		73-116%
460-00-4	4-Bromofluorobenzene	93%		69-126%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-17		
Lab Sample ID:	J98787-9	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M7668.D	1	08/26/08	LP	08/25/08	OP34376	E3M310
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	20	3.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	1.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	4.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	1.2	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.4	ug/l	
	3&4-Methylphenol	ND	2.0	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	2.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.6	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.38	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.54	ug/l	
62-53-3	Aniline	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	1.0	0.42	ug/l	
92-87-5	Benzidine	ND	20	8.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.38	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.53	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.46	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.57	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.41	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.33	ug/l	
86-74-8	Carbazole	ND	2.0	0.45	ug/l	
218-01-9	Chrysene	ND	1.0	0.44	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.52	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-17		
Lab Sample ID:	J98787-9	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.45	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.35	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	2.0	0.52	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.33	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	4.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.45	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.50	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.36	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.75	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.40	ug/l	
86-73-7	Fluorene	ND	1.0	0.40	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	0.45	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.38	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	4.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.42	ug/l	
78-59-1	Isophorone	ND	2.0	0.69	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.45	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.45	ug/l	
91-20-3	Naphthalene	ND	1.0	0.32	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.66	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.36	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.39	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.34	ug/l	
129-00-0	Pyrene	ND	1.0	0.48	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.37	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-17		
Lab Sample ID:	J98787-9	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		10-69%
4165-62-2	Phenol-d5	29%		10-52%
118-79-6	2,4,6-Tribromophenol	88%		32-134%
4165-60-0	Nitrobenzene-d5	67%		23-116%
321-60-8	2-Fluorobiphenyl	60%		28-109%
1718-51-0	Terphenyl-d14	84%		24-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-17		
Lab Sample ID:	J98787-9	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV59458.D	1	08/25/08	DCA	n/a	n/a	GUV2625
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	89%		51-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-17		
Lab Sample ID:	J98787-9	**Date Sampled:**	08/21/08
Matrix:	AQ - Ground Water	**Date Received:**	08/22/08
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB76111.D	1	08/27/08	JSE	08/25/08	OP34378	GAB5094
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.094	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.47	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.16	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	152% [a]		23-131%
877-09-8	Tetrachloro-m-xylene	188% [a]		23-131%
2051-24-3	Decachlorobiphenyl	170% [a]		12-139%
2051-24-3	Decachlorobiphenyl	186% [a]		12-139%

(a) Outside control limits due to possible extract concentration.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-17
Lab Sample ID: J98787-9 **Date Sampled:** 08/21/08
Matrix: AQ - Ground Water **Date Received:** 08/22/08
Method: SW846-8015 SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ51595.D	1	08/25/08	PM	08/25/08	OP34374	GZZ1671
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.10	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		31-132%
16416-32-3	Tetracosane-d50	89%		26-139%
438-22-2	5a-Androstane	69%		26-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-17
Lab Sample ID: J98787-9
Matrix: AQ - Ground Water
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/21/08
Date Received: 08/22/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/27/08	08/27/08	JF	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Thallium	< 2.0	2.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA21363
(2) Instrument QC Batch: MA21369
(3) Prep QC Batch: MP44958
(4) Prep QC Batch: MP44983

RL = Reporting Limit

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-17
Lab Sample ID: J98787-9F
Matrix: AQ - Groundwater Filtered
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/21/08
Date Received: 08/22/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Arsenic	< 3.0	3.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Beryllium	< 1.0	1.0	ug/l	1	08/26/08	08/27/08	ND	SW846 6010B [3]	SW846 3010A [4]
Cadmium	< 4.0	4.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Lead	< 3.0	3.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	08/27/08	08/27/08	JF	SW846 7470A [2]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Thallium	< 2.0	2.0	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	08/26/08	08/27/08	VC	SW846 6010B [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA21363
(2) Instrument QC Batch: MA21369
(3) Instrument QC Batch: MA21372
(4) Prep QC Batch: MP44958
(5) Prep QC Batch: MP44983

RL = Reporting Limit

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-19 (17-22)		
Lab Sample ID:	J98787-10	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8260B	**Percent Solids:**	96.6
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V82346.D	1	08/27/08	JLI	n/a	n/a	VV3325
Run #2							

	Initial Weight
Run #1	5.3 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9.8	2.1	ug/kg	
107-02-8	Acrolein	ND	49	11	ug/kg	
107-13-1	Acrylonitrile	ND	49	1.3	ug/kg	
71-43-2	Benzene	ND	0.98	0.34	ug/kg	
75-27-4	Bromodichloromethane	ND	4.9	0.25	ug/kg	
75-25-2	Bromoform	ND	4.9	0.33	ug/kg	
74-83-9	Bromomethane	ND	4.9	0.86	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.8	2.2	ug/kg	
104-51-8	n-Butylbenzene	ND	4.9	1.7	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.9	0.47	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.9	0.27	ug/kg	
75-15-0	Carbon disulfide	ND	4.9	0.49	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.9	0.91	ug/kg	
108-90-7	Chlorobenzene	ND	4.9	0.29	ug/kg	
75-00-3	Chloroethane	ND	4.9	0.66	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	24	1.3	ug/kg	
67-66-3	Chloroform	ND	4.9	0.45	ug/kg	
74-87-3	Chloromethane	ND	4.9	0.69	ug/kg	
124-48-1	Dibromochloromethane	ND	4.9	0.26	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.36	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.30	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.31	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.9	1.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.9	0.38	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.98	0.42	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.9	0.51	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.9	0.35	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.9	0.31	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.9	0.38	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.9	0.27	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.9	0.24	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.9	0.24	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-19 (17-22)		
Lab Sample ID:	J98787-10	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8260B	**Percent Solids:**	96.6
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	0.98	0.40	ug/kg	
76-13-1	Freon 113	ND	4.9	1.0	ug/kg	
591-78-6	2-Hexanone	ND	4.9	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	4.9	0.44	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.9	0.49	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.98	0.35	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.9	2.3	ug/kg	
75-09-2	Methylene chloride	ND	4.9	0.28	ug/kg	
91-20-3	Naphthalene	ND	4.9	0.47	ug/kg	
103-65-1	n-Propylbenzene	ND	4.9	0.47	ug/kg	
100-42-5	Styrene	ND	4.9	0.28	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.9	0.25	ug/kg	
127-18-4	Tetrachloroethene	ND	4.9	0.46	ug/kg	
108-88-3	Toluene	ND	0.98	0.32	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	0.41	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.9	0.51	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.9	0.25	ug/kg	
79-01-6	Trichloroethene	ND	4.9	0.29	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.9	1.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.9	2.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.9	0.24	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.9	0.34	ug/kg	
75-01-4	Vinyl chloride	ND	4.9	0.62	ug/kg	
	m,p-Xylene	ND	2.0	0.64	ug/kg	
95-47-6	o-Xylene	ND	0.98	0.29	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	0.29	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		67-125%
17060-07-0	1,2-Dichloroethane-D4	89%		64-131%
2037-26-5	Toluene-D8	99%		73-124%
460-00-4	4-Bromofluorobenzene	90%		61-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-19 (17-22)
Lab Sample ID: J98787-10 **Date Sampled:** 08/19/08
Matrix: SO - Soil **Date Received:** 08/22/08
Method: SW846 8270C SW846 3550B **Percent Solids:** 96.6
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M7644.D	1	08/26/08	LP	08/25/08	OP34368	E3M309
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	690	9.8	ug/kg	
95-57-8	2-Chlorophenol	ND	170	29	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	42	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	36	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	42	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	690	370	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	690	37	ug/kg	
95-48-7	2-Methylphenol	ND	69	37	ug/kg	
	3&4-Methylphenol	ND	69	46	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	690	44	ug/kg	
87-86-5	Pentachlorophenol	ND	350	45	ug/kg	
108-95-2	Phenol	ND	69	26	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	46	ug/kg	
83-32-9	Acenaphthene	ND	35	18	ug/kg	
208-96-8	Acenaphthylene	ND	35	15	ug/kg	
62-53-3	Aniline	ND	69	9.1	ug/kg	
120-12-7	Anthracene	ND	35	15	ug/kg	
92-87-5	Benzidine	ND	690	180	ug/kg	
56-55-3	Benzo(a)anthracene	ND	35	21	ug/kg	
50-32-8	Benzo(a)pyrene	ND	35	14	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	35	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	35	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	35	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	69	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	69	17	ug/kg	
91-58-7	2-Chloronaphthalene	ND	69	15	ug/kg	
106-47-8	4-Chloroaniline	ND	170	14	ug/kg	
86-74-8	Carbazole	ND	69	15	ug/kg	
218-01-9	Chrysene	ND	35	16	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	69	17	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-19 (17-22)		
Lab Sample ID:	J98787-10	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	96.6
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	69	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	69	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	69	23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	69	19	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	69	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	69	14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	69	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	69	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	69	16	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	60	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	16	ug/kg	
132-64-9	Dibenzofuran	ND	69	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	69	22	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	69	15	ug/kg	
84-66-2	Diethyl phthalate	ND	69	16	ug/kg	
131-11-3	Dimethyl phthalate	ND	69	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	36.6	69	18	ug/kg	J
206-44-0	Fluoranthene	ND	35	16	ug/kg	
86-73-7	Fluorene	ND	35	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	69	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	69	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	690	33	ug/kg	
67-72-1	Hexachloroethane	ND	170	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	35	13	ug/kg	
78-59-1	Isophorone	ND	69	30	ug/kg	
91-57-6	2-Methylnaphthalene	ND	69	15	ug/kg	
88-74-4	2-Nitroaniline	ND	170	25	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	22	ug/kg	
91-20-3	Naphthalene	ND	35	15	ug/kg	
98-95-3	Nitrobenzene	ND	69	16	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	69	30	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	69	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	23	ug/kg	
85-01-8	Phenanthrene	ND	35	17	ug/kg	
129-00-0	Pyrene	ND	35	15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	69	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-19 (17-22)		
Lab Sample ID:	J98787-10	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	96.6
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	87%		29-114%
4165-62-2	Phenol-d5	86%		31-111%
118-79-6	2,4,6-Tribromophenol	90%		27-133%
4165-60-0	Nitrobenzene-d5	81%		36-116%
321-60-8	2-Fluorobiphenyl	83%		44-111%
1718-51-0	Terphenyl-d14	86%		37-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-19 (17-22)		
Lab Sample ID:	J98787-10	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8015	**Percent Solids:**	96.6
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF67864.D	1	08/27/08	DCA	n/a	n/a	GPF1448
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	2.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	104%		42-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-19 (17-22)		
Lab Sample ID:	J98787-10	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8082 SW846 3545	**Percent Solids:**	96.6
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB76099.D	1	08/27/08	JSE	08/25/08	OP34372	GAB5093
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	6.5	ug/kg	
11104-28-2	Aroclor 1221	ND	34	21	ug/kg	
11141-16-5	Aroclor 1232	ND	34	19	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	12	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	ND	34	6.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		44-139%
877-09-8	Tetrachloro-m-xylene	87%		44-139%
2051-24-3	Decachlorobiphenyl	91%		39-147%
2051-24-3	Decachlorobiphenyl	90%		39-147%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-19 (17-22)		
Lab Sample ID:	J98787-10	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846-8015 SW846 3545	**Percent Solids:**	96.6
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Y7651.D	1	08/27/08	PM	08/25/08	OP34373	G3Y259
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	6.8	1.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		31-152%
16416-32-3	Tetracosane-d50	87%		34-153%
438-22-2	5a-Androstane	74%		36-151%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-19 (17-22)
Lab Sample ID: J98787-10
Matrix: SO - Soil
Date Sampled: 08/19/08
Date Received: 08/22/08
Percent Solids: 96.6
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.0	2.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Arsenic	< 2.0	2.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Beryllium	< 0.50	0.50	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Cadmium	< 0.50	0.50	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Chromium	12.1	1.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Copper	4.2	2.5	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Lead	< 2.0	2.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Mercury	< 0.031	0.031	mg/kg	1	08/28/08	08/28/08	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	< 4.0	4.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Selenium	< 2.0	2.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Silver	< 1.0	1.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Thallium	< 1.0	1.0	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Zinc	7.0	2.0	mg/kg	1	08/27/08	08/29/08	ND	SW846 6010B [3]	SW846 3050B [4]

(1) Instrument QC Batch: MA21371
(2) Instrument QC Batch: MA21375
(3) Instrument QC Batch: MA21379
(4) Prep QC Batch: MP44971
(5) Prep QC Batch: MP44995

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-19 (24-28)		
Lab Sample ID:	J98787-11	**Date Sampled:**	08/18/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8260B	**Percent Solids:**	97.0
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V82347.D	1	08/27/08	JLI	n/a	n/a	VV3325
Run #2							

	Initial Weight
Run #1	5.2 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9.9	2.1	ug/kg	
107-02-8	Acrolein	ND	50	11	ug/kg	
107-13-1	Acrylonitrile	ND	50	1.3	ug/kg	
71-43-2	Benzene	ND	0.99	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.26	ug/kg	
75-25-2	Bromoform	ND	5.0	0.33	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.87	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.9	2.2	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.7	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.48	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.28	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.93	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.29	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.67	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	1.4	ug/kg	
67-66-3	Chloroform	ND	5.0	0.46	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.70	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.27	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.37	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.30	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.31	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.39	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.99	0.42	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.0	0.52	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.36	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	0.32	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.39	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.27	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.24	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.25	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-19 (24-28)		
Lab Sample ID:	J98787-11	**Date Sampled:**	08/18/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8260B	**Percent Solids:**	97.0
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	0.99	0.40	ug/kg	
76-13-1	Freon 113	ND	5.0	1.1	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.44	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.49	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.99	0.35	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	2.4	ug/kg	
75-09-2	Methylene chloride	ND	5.0	0.29	ug/kg	
91-20-3	Naphthalene	ND	5.0	0.48	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.47	ug/kg	
100-42-5	Styrene	ND	5.0	0.28	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.25	ug/kg	
127-18-4	Tetrachloroethene	ND	5.0	0.46	ug/kg	
108-88-3	Toluene	ND	0.99	0.33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.42	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.52	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.25	ug/kg	
79-01-6	Trichloroethene	ND	5.0	0.29	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	2.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.34	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	0.63	ug/kg	
	m,p-Xylene	ND	2.0	0.65	ug/kg	
95-47-6	o-Xylene	ND	0.99	0.30	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	0.30	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		67-125%
17060-07-0	1,2-Dichloroethane-D4	91%		64-131%
2037-26-5	Toluene-D8	101%		73-124%
460-00-4	4-Bromofluorobenzene	89%		61-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-19 (24-28)
Lab Sample ID: J98787-11 **Date Sampled:** 08/18/08
Matrix: SO - Soil **Date Received:** 08/22/08
Method: SW846 8270C SW846 3550B **Percent Solids:** 97.0
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M7645.D	1	08/26/08	LP	08/25/08	OP34368	E3M309
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	680	9.7	ug/kg	
95-57-8	2-Chlorophenol	ND	170	28	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	41	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	36	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	42	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	680	370	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	680	36	ug/kg	
95-48-7	2-Methylphenol	ND	68	37	ug/kg	
	3&4-Methylphenol	ND	68	46	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	680	44	ug/kg	
87-86-5	Pentachlorophenol	ND	340	44	ug/kg	
108-95-2	Phenol	ND	68	26	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	45	ug/kg	
83-32-9	Acenaphthene	ND	34	18	ug/kg	
208-96-8	Acenaphthylene	ND	34	15	ug/kg	
62-53-3	Aniline	ND	68	9.0	ug/kg	
120-12-7	Anthracene	ND	34	15	ug/kg	
92-87-5	Benzidine	ND	680	180	ug/kg	
56-55-3	Benzo(a)anthracene	ND	34	21	ug/kg	
50-32-8	Benzo(a)pyrene	ND	34	14	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	34	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	34	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	34	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	68	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	68	17	ug/kg	
91-58-7	2-Chloronaphthalene	ND	68	15	ug/kg	
106-47-8	4-Chloroaniline	ND	170	14	ug/kg	
86-74-8	Carbazole	ND	68	15	ug/kg	
218-01-9	Chrysene	ND	34	16	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	68	17	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-19 (24-28)		
Lab Sample ID:	J98787-11	**Date Sampled:**	08/18/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.0
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	68	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	68	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	68	23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	68	18	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	68	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	68	14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	68	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	68	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	68	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	59	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	16	ug/kg	
132-64-9	Dibenzofuran	ND	68	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	68	21	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	68	15	ug/kg	
84-66-2	Diethyl phthalate	ND	68	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	68	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	68	18	ug/kg	
206-44-0	Fluoranthene	ND	34	16	ug/kg	
86-73-7	Fluorene	ND	34	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	68	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	68	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	680	32	ug/kg	
67-72-1	Hexachloroethane	ND	170	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34	13	ug/kg	
78-59-1	Isophorone	ND	68	30	ug/kg	
91-57-6	2-Methylnaphthalene	ND	68	15	ug/kg	
88-74-4	2-Nitroaniline	ND	170	25	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	21	ug/kg	
91-20-3	Naphthalene	ND	34	15	ug/kg	
98-95-3	Nitrobenzene	ND	68	15	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	68	30	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	68	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	23	ug/kg	
85-01-8	Phenanthrene	ND	34	17	ug/kg	
129-00-0	Pyrene	ND	34	15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	68	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-19 (24-28)		
Lab Sample ID:	J98787-11	**Date Sampled:**	08/18/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.0
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	94%		29-114%
4165-62-2	Phenol-d5	93%		31-111%
118-79-6	2,4,6-Tribromophenol	99%		27-133%
4165-60-0	Nitrobenzene-d5	85%		36-116%
321-60-8	2-Fluorobiphenyl	84%		44-111%
1718-51-0	Terphenyl-d14	90%		37-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-19 (24-28)		
Lab Sample ID:	J98787-11	**Date Sampled:**	08/18/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
Method:	SW846 8015	**Percent Solids:**	97.0
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF67865.D	1	08/27/08	DCA	n/a	n/a	GPF1448
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.7 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	2.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	101%		42-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-19 (24-28)
Lab Sample ID: J98787-11 **Date Sampled:** 08/18/08
Matrix: SO - Soil **Date Received:** 08/22/08
Method: SW846 8082 SW846 3545 **Percent Solids:** 97.0
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB76100.D	1	08/27/08	JSE	08/25/08	OP34372	GAB5093
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	6.5	ug/kg	
11104-28-2	Aroclor 1221	ND	34	21	ug/kg	
11141-16-5	Aroclor 1232	ND	34	19	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	12	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	ND	34	6.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		44-139%
877-09-8	Tetrachloro-m-xylene	88%		44-139%
2051-24-3	Decachlorobiphenyl	89%		39-147%
2051-24-3	Decachlorobiphenyl	89%		39-147%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-19 (24-28)
Lab Sample ID: J98787-11 **Date Sampled:** 08/18/08
Matrix: SO - Soil **Date Received:** 08/22/08
Method: SW846-8015 SW846 3545 **Percent Solids:** 97.0
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Y7636.D	1	08/27/08	PM	08/25/08	OP34373	G3Y258
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	6.8	1.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		31-152%
16416-32-3	Tetracosane-d50	88%		34-153%
438-22-2	5a-Androstane	80%		36-151%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-19 (24-28)		
Lab Sample ID:	J98787-11	**Date Sampled:**	08/18/08
Matrix:	SO - Soil	**Date Received:**	08/22/08
		Percent Solids:	97.0
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.1	2.1	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Arsenic	< 2.1	2.1	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Beryllium	< 0.53	0.53	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Cadmium	< 0.53	0.53	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Chromium	4.8	1.1	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Copper	2.8	2.6	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Lead	< 2.1	2.1	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Mercury	< 0.031	0.031	mg/kg	1	08/28/08	08/28/08	JW	SW846 7471A [2]	SW846 7471A [5]
Nickel	< 4.2	4.2	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Selenium	< 2.1	2.1	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Silver	< 1.1	1.1	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Thallium	< 1.1	1.1	mg/kg	1	08/27/08	08/27/08	GT	SW846 6010B [1]	SW846 3050B [4]
Zinc	3.5	2.1	mg/kg	1	08/27/08	08/29/08	ND	SW846 6010B [3]	SW846 3050B [4]

(1) Instrument QC Batch: MA21371
(2) Instrument QC Batch: MA21375
(3) Instrument QC Batch: MA21379
(4) Prep QC Batch: MP44971
(5) Prep QC Batch: MP44995

RL = Reporting Limit

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: J98787-12 **Date Sampled:** 08/21/08
Matrix: AQ - Equipment Blank **Date Received:** 08/22/08
Method: SW846 8260B **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X83037.D	1	08/29/08	YXC	n/a	n/a	VX3432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK		
Lab Sample ID:	J98787-12	**Date Sampled:**	08/21/08
Matrix:	AQ - Equipment Blank	**Date Received:**	08/22/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		72-120%
17060-07-0	1,2-Dichloroethane-D4	108%		59-137%
2037-26-5	Toluene-D8	97%		73-116%
460-00-4	4-Bromofluorobenzene	93%		69-126%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Job Change Order: J98787 8/25/2008

Requested Date:	8/25/2008	**Received Date:**	8/22/2008
Account Name:	Kleinfelder	**Due Date:**	8/29/2008
Project Description: COMMA	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY	**Deliverable:**	
CSR:	TE	**TAT (Days):**	7

Sample #:
J98787-2

Change: Log in for SD8015EGLY and SD8015PGLY

GP-8 (22-28)

Above Changes Edward Savarese **Date:** 8/25/2008

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Page 1 of 1

ACCUTEST

SO GW TB

CHAIN OF CUSTODY

2235 Us Highway 130, Dayton, NJ 08810
(732) 329-0200 Fax: (732) 329-3499

Accutest Job #: J98787

Client Information

Consultants Name: Kleinfelder East Inc.
Address: One Corporate Drive, Suite 201
City: Bohemia State: NY Zip: 11716
Project Contact: Edward N. Savarese
Phone #: 631-218-0612
Fax #: 631-218-0787
AFE#

Facility Information

Project Name: Lighthouse Project
Street: 1255 Hempstead Tpke
City: Uniondale State: NY
Invoice Contact: Kleinfelder
Invoice Phone #: 631 218 0612
Location ID#: Lighthouse
PO#: 08540-49315

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation: HCL	NaOH	HNO3	H2SO4	MEOH	Other	None	EPA Method 8260 (PPTCL)+TAGM+STARS	EPA Method 8270 (PPTCL)+TAGM+STARS	PP metlas (EPA Method 6010/7471)	PP metlas (EPA Method 6010/7471) DISSOLVED	TPH EPA Method 8015 (DRO/GRO)	PCB EPA Method 8082
GP-8 (22-28) - 1	8/20/08	1300	AW	SO	5							X	X	X	X		X	X
GP-8 - 2F	8/21/08	1020	[illegible]	GW	5	X		X				X	X	X	X	X	X	X
trip blank - 3	7/22/08	0630	NA	NA	2	X												

Turnaround Information

- ~~10 Day Turnaround~~
- 7 Day EMERGENCY
- [X] 4 Day EMERGENCY
- 3 Day EMERGENCY
- 2 Day EMERGENCY
- 1 Day EMERGENCY

Approved By:

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- [X] Commercial "A"
- Commercial "B"
- Full Deliverables
- Other
- FULL CLP
- State Forms
- Disk Deliverable Format____

Commercial "A" = Results Only

Accutest Log-in Information

UTC7 1951 0702 | EX9, ME24, SUB 2059

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	8/22/08	1	2	8/22/08	2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by Sampler:	Date Time:	Received By:	Seal #	Preserve where applicable	On Ice
5		5			

Temp: 2.8°C 3.8°C 5.6°C 2.4°C 3.8°C AM

2A

ACCUTEST
2235 Us Highway 130, Dayton, NJ 08810
(732) 329-0200 Fax: (732) 329-3499

SO SW

CHAIN OF CUSTODY

2

Accutest Job #: J98787

Client Information			Facility Information		
Consultants Name: Kleinfelder East Inc.			Project Name: Lighthouse Project		
Address: One Corporate Drive, Suite 201			Street: 1255 Hempstead Tpke		
City: Bohemia	State: NY	Zip: 11716	City: Uniondale	State: NY	
Project Contact: Edward N. Savarese			Invoice Contact: Kleinfelder		
Phone #: 631-218-0612			Invoice Phone #: 631 218 0612		
Fax #: 631-218-0787			Location ID#: Lighthouse		
AFE#			PO#: 08540-49315		

Field ID / Point of Collection	Collection: Date	Time	Sampled By	Matrix	# of bottles	Preservation: HCL	NaOH	HNO3	H2SO4	MEOH	Other	None	EPA Method 8260 (PPTCL)+TAGM+STARS	EPA Method 8270 (PPTCL)+TAGM+STARS	PP metlas (EPA Method 6010/7471)	PP metlas (EPA Method 6010/7471) DISOLVED	TPH EPA Method 8015 (DRO/GRO)	PCB EPA Method 8082
GP-11 (24-28) - 4	8/21/08	1200	AW	SO	5							X	X	X	X		X	X
GP-11 -5F	8/21/08	1430	AW	GW	14	X		X				X	X	X	X	X	X	X

Analytical Information

Turnaround Information

- [x] ~~10 Day Turnaround~~
- [ ] 7 Day *EMERGENCY*
- [x] 4 Day *EMERGENCY*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Approved By: _____

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- [x] Commercial "A"
- [ ] Commercial "B"
- [ ] Full Deliverables
- [ ] Other
- [ ] FULL CLP
- [ ] State Forms
- [ ] Disk Deliverable Format____

Commercial "A" = Results Only

Accutest Log-in Information

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: Holly Wallace	Date Time: 8/22/08	Received By: 1	Relinquished By: 2	Date Time: 8/22/08 2055	Received By: 2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal #	Preserve where applicable: ☐	On Ice: ☑ Temp. 3.8°C

ACCUTEST

SO GW

CHAIN OF CUSTODY

2235 Us Highway 130, Dayton, NJ 08810
(732) 329-0200 Fax: (732) 329-3499

8

Accutest Job #: J98787

Client Information			Facility Information	
Consultants Name: Kleinfelder East Inc.			Project Name: Lighthouse Project	
Address: One Corporate Drive, Suite 201			Street: 1255 Hempstead Tpke	
City: Bohemia	State: NY	Zip: 11716	City: Uniondale	State: NY
Project Contact: Edward N. Savarese			Invoice Contact: Kleinfelder	
Phone #: 631-218-0612			Invoice Phone #: 631 218 0612	
Fax #: 631-218-0787			Location ID#: Lighthouse	
AFE#			PO#: 08540-49315	

Field ID / Point of Collection	Collection: Date	Time	Sampled By	Matrix	# of bottles	Preservation: HCL	NaOH	HNO3	H2SO4	MEOH	Other	None	EPA Method 8260 (PPTCL)+TAGM+STARS	EPA Method 8270 (PPTCL)+TAGM+STARS	PP metlas (EPA Method 6010/7471)	PP metlas (EPA Method 6010/7471) DISOLVED	TPH EPA Method 8015 (DRO/GRO)	PCB EPA Method 8082
GP-12 (24-28) -6	8/17/08	1447	AW	SO	5							X	X	X	X		X	X
GP-12 -7F	8/21/08	1308	AW	GW	14	X		X				X	X	X	X	X	X	X

Turnaround Information

- ~~10 Day Turnaround~~
- Approved By:
- 7 Day *EMERGENCY*
- [X] 4 Day *EMERGENCY*
- 3 Day *EMERGENCY*
- 2 Day *EMERGENCY*
- 1 Day *EMERGENCY*

Emergency T/A is for FAX or LabLink Data

Data Deliverable Information

- [■] Commercial "A"
- [ ] Commercial "B"
- [ ] Full Deliverables
- [ ] Other
- [ ] FULL CLP
- [ ] State Forms
- [ ] Disk Deliverable Format____

Commercial "A" = Results Only

Accutest Log-in Information

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Cody Wendler	8/22/08	Pat Ock	Pat Ock	8/22/08 2055	Mathews
2						
3						
4						
5				Seal #	Preserve where applicable: ☐	On Ice: ☑ Temp. 5.6°C

ACCUTEST

50 SW

CHAIN OF CUSTODY

2235 Us Highway 130, Dayton, NJ 08810
(732) 329-0200 Fax: (732) 329-3499

4

Accutest Job #: J98787

Client Information

Consultants Name: Kleinfelder East Inc.
Address: One Corporate Drive, Suite 201
City: Bohemia State: NY Zip: 11716
Project Contact: Edward N. Savarese
Phone #: 631-218-0612
Fax #: 631-218-0787
AFE#

Facility Information

Project Name: Lighthouse Project
Street: 1255 Hempstead Tpke
City: Uniondale State: NY
Invoice Contact: Kleinfelder
Invoice Phone #: 631 218 0612
Location ID#: Lighthouse
PO#: 08540-49315

Field ID / Point of Collection	Collection: Date	Time	Sampled By	Matrix	# of bottles	Preservation: HCL	NaOH	HNO3	H2SO4	MEOH	Other	None	EPA Method 8260 (PPTCL)+TAGM+STARS	EPA Method 8270 (PPTCL)+TAGM+STARS	PP metlas (EPA Method 6010/7471)	PP metlas (EPA Method 6010/7471) DISOLVED	TPH EPA Method 8015 (DRO/GRO)	PCB EPA Method 8082
GP-17 (24-27)-S	8/7/08	1250	MW SM	SO	5							X	X	X	X		X	X
GP-17 -SF	8/21/08	1655	AW	GW	14	X		X				X	X	X	X	X	X	X

Turnaround Information

- ~~10 Day Turnaround~~
- 7 Day EMERGENCY
- 4 Day EMERGENCY
- 3 Day EMERGENCY
- 2 Day EMERGENCY
- 1 Day EMERGENCY

Approved By:

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- Commercial "A"
- Commercial "B"
- Full Deliverables
- Other
- FULL CLP
- State Forms
- Disk Deliverable Format____

Commercial "A" = Results Only

Accutest Log-in Information

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Kelly Wunsha	8/8/08	Val Ocl	Val Ocl	8/22/08	1055 Mathias
2						
3						
4						
5						

Seal # ____ Preserve where applicable ☐ On Ice ☑ Temp. 2.4°C

J98787: Chain of Custody
Page 5 of 9

CHAIN OF CUSTODY

ACCUTEST

50

2235 Us Highway 130, Dayton, NJ 08810
(732) 329-0200 Fax: (732) 329-3499

5

Accutest Job #: J98787

Client Information			Facility Information	
Consultants Name	Kleinfelder East Inc.		Project Name	Lighthouse Project
Address	One Corporate Drive, Suite 201		Street	1255 Hempstead Tpke
City	Bohemia	State: NY Zip: 11716	City	Uniondale
			State	NY
Project Contact:	Edward N. Savarese		Invoice Contact:	Kleinfelder
Phone #:	631-218-0612		Invoice Phone #	631 218 0612
Fax #:	631-218-0787		Location ID#	Lighthouse
AFE#			PO#	08540-49315

Field ID / Point of Collection	Collection: Date	Time	Sampled By	Matrix	# of bottles	Preservation: HCL	NaOH	HNO3	H2SO4	MEOH	Other	None	EPA Method 8260 (PPTCL)+TAGM+STARS	EPA Method 8270 (PPTCL)+TAGM+STARS	PP metlas (EPA Method 6010/7471)	PP metlas (EPA Method 6010/7471) DISOLVED	Analytical Information: TPH EPA Method 8015 (DRO/GRO)	PCB EPA Method 8082
GP-19 (17-22) -10	8/19/2008	1019	AW	s	5							x	x	X	X		X	X
GP-19 (24-28) -11	8/18/2008	1730	AW	s	5							x	x	X	X		X	X

Turnaround Information

- [ ] 5 day turn around time
- [ ]
- [ ]
- [ ]
- [ ]
- [ ]

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- [x] Commercial "A"
- [ ] Commercial "B"
- [ ] Full Deliverables
- [ ] Other
- [ ] FULL CLP
- [ ] State Forms
- [ ] Disk Deliverable Format____

Commercial "A" = Results Only

Accutest Log-in Information

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
Andy Winslow	8-22-08 130pm	1 Val Ocl	2 Val Ocl	8/22/08 2055	2 Molina
3		3	4		4
5		5	Seal # —	Preserve where applicable ☐	On Ice ☑ Temp. 3.8°C

ACCUTEST

FB

CHAIN OF CUSTODY

2235 Us Highway 130, Dayton, NJ 08810
(732) 329-0200 Fax: (732) 329-3499

Accutest Job #: J98787

Client Information			Facility Information	
Consultants Name	Kleinfelder East Inc.		Project Name	Lighthouse Project
Address	One Corporate Drive, Suite 201		Street	1255 Hempstead Tpke
City	Bohemia	State NY Zip 11716	City	Uniondale
			State	NY
Project Contact:	Edward N. Savarese		Invoice Contact:	Kleinfelder
Phone #:	631-218-0612		Invoice Phone #	631 218 0612
Fax #:	631-218-0787		Location ID#	Lighthouse
AFE#			PO#	08540-49315

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2SO4	MEOH	Other	None	EPA Method 8260 (PPTCL)+TAGM+STARS	EPA Method 8270 (PPTCL)+TAGM+STARS	PP metlas (EPA Method 6010/7471)	PP metlas (EPA Method 6010/7471) DISOLVED	TPH EPA Method 8015 (DRO/GRO)	PCB EPA Method 8082
Equipment Blank -12	8/21/2008	7/23/1903	AW	gw	6	X							X					

Analytical Information

Turnaround Information

- ☐ 5 day turn around time
- ☐
- ☐
- ☐
- ☐
- ☐

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- ■ Commercial "A"
- ☐ Commercial "B"
- ☐ Full Deliverables
- ☐ Other
- ☐ FULL CLP
- ☐ State Forms
- ☐ Disk Deliverable Format____

Commercial "A" = Results Only

Accutest Log-in Information

2071

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
Andy Winslow	8-22-08 130pm	1 Val Dal	2 Val Dal	8/22/08 2035	2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by Sampler:	Date Time:	Received By:	Seal #	Preserve where applicable	On Ice	Temp.
5		5	—	☐	☑	3.6°C

AM

J98787 CIR

8-22-08

To Whom It May Concern:

All coolers in this delivery (5 in total) will require a 5 day TAT. Please contact Eddie Savarese at 631 218 0612 to confirm.

Thanks,

Eddie Savarese
Project Hydrogeologist

J98787: Chain of Custody
Page 8 of 9

ACCUTEST Laboratories

☐ Immediate Action Required
Scanned as Problem Note.
☒ Action Required at Login
Not Scanned

Issue Date: 8/22/08

Sample Receipt Issues Summary

To: Client Services / Login
From: Sample Management

Sample Management Technicians Initials: (MW)

Client: Kleinfelder Project: Lighthouse Job #: J98787 CK

- ☐ Trip Blank Not Received
- ☐ Trip Blank Not on Chain of Custody
- ☐ Temperature Criteria (2-6 C) Not Met
  - ☐ Ice Present
  - ☐ No Ice Present
  - ☐ Frozen
- ☐ Sample Received Out of Holding Time
- ☐ Encore received outside of Holding Time
- ☐ Soil VOA vials in DI water to be frozen rec'd outside of 48 hr Holding Time
- ☐ Sample Received Broken
- ☐ Insufficient Volume For Analysis
- ☐ Sample Received Improperly Preserved
- ☐ Times on Chain Don't Match Label
- ☐ ID's on Chain Don't Match Label
- ☐ Sample Labels Not Present on all Bottles
- ☐ Analysis Requested is Unclear or Missing
- ☐ VOC Vials Have Headspace (Macro-bubbles)
- ☒ Bottles Rcv'd, Analysis Not Requested on COC
- ☐ No Bottles Received for Analysis Requested
- ☐ Unclear Filtering Instructions
- ☐ Unclear Compositing Instructions
- ☐ % Solids Jar Not Received
- ☐ No Chain of Custody Received
- ☐ Sample Dates or Times Unclear or Missing

Description of Problem:

-2 also rec'd 3x40 vials for Prop/Ethyl Glycol

Form: SM65-01
Rev. Date: 06/05/08

J98787: Chain of Custody
Page 9 of 9

Technical Report for

Kleinfelder

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

08540-49315

Accutest Job Number: J98426

Sampling Date: 08/18/08

Report to:

Kleinfelder

mpagotto@kleinfelder.com

ATTN: Melody Pagotto

Total number of pages in report: **27**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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ACCUTEST LABORATORIES 50 YEARS 1956-2006

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Sample Summary

Kleinfelder

Job No: J98426

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY
Project No: 08540-49315

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J98426-1	08/18/08	12:30	AW	08/19/08	AQ	Ground Water	GP16
J98426-1F	08/18/08	12:30	AW	08/19/08	AQ	Groundwater Filtered	GP16
J98426-2	08/18/08	10:36	AW	08/19/08	SO	Soil	GP16 (24-28)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Results

Report of Analysis

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID:	GP16		
Lab Sample ID:	J98426-1	**Date Sampled:**	08/18/08
Matrix:	AQ - Ground Water	**Date Received:**	08/19/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E29907.D	1	08/25/08	MMC	n/a	n/a	V2E1307
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP16		
Lab Sample ID:	J98426-1	**Date Sampled:**	08/18/08
Matrix:	AQ - Ground Water	**Date Received:**	08/19/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		72-120%
17060-07-0	1,2-Dichloroethane-D4	99%		59-137%
2037-26-5	Toluene-D8	87%		73-116%
460-00-4	4-Bromofluorobenzene	84%		69-126%

ND = Not detected MDL - Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID: GP16
Lab Sample ID: J98426-1 **Date Sampled:** 08/18/08
Matrix: AQ - Ground Water **Date Received:** 08/19/08
Method: SW846 8270C SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M17338.D	1	08/21/08	KLS	08/20/08	OP34287	E2M710
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	20	3.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	1.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	4.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	1.2	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.4	ug/l	
	3&4-Methylphenol	ND	2.0	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	2.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.6	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.38	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.54	ug/l	
62-53-3	Aniline	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	1.0	0.42	ug/l	
92-87-5	Benzidine	ND	20	8.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.38	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.53	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.46	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.57	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.41	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.33	ug/l	
86-74-8	Carbazole	ND	2.0	0.45	ug/l	
218-01-9	Chrysene	ND	1.0	0.44	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.52	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP16		
Lab Sample ID:	J98426-1	**Date Sampled:**	08/18/08
Matrix:	AQ - Ground Water	**Date Received:**	08/19/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.45	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.35	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	2.0	0.52	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.33	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	4.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.45	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.50	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.36	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.75	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.40	ug/l	
86-73-7	Fluorene	ND	1.0	0.40	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	0.45	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.38	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	4.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.42	ug/l	
78-59-1	Isophorone	ND	2.0	0.69	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.45	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.45	ug/l	
91-20-3	Naphthalene	ND	1.0	0.32	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.66	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.36	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.39	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.34	ug/l	
129-00-0	Pyrene	ND	1.0	0.48	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.37	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP16		
Lab Sample ID:	J98426-1	**Date Sampled:**	08/18/08
Matrix:	AQ - Ground Water	**Date Received:**	08/19/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		10-69%
4165-62-2	Phenol-d5	20%		10-52%
118-79-6	2,4,6-Tribromophenol	79%		32-134%
4165-60-0	Nitrobenzene-d5	68%		23-116%
321-60-8	2-Fluorobiphenyl	71%		28-109%
1718-51-0	Terphenyl-d14	122%		24-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID:	GP16		
Lab Sample ID:	J98426-1	**Date Sampled:**	08/18/08
Matrix:	AQ - Ground Water	**Date Received:**	08/19/08
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV59383.D	1	08/20/08	DCA	n/a	n/a	GUV2621
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	87%		51-129%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID: GP16
Lab Sample ID: J98426-1 **Date Sampled:** 08/18/08
Matrix: AQ - Ground Water **Date Received:** 08/19/08
Method: SW846 8082 SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G39440.D	1	08/25/08	OPM	08/20/08	OP34290	G1G1428
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.094	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.47	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.16	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	98%		23-131%
877-09-8	Tetrachloro-m-xylene	106%		23-131%
2051-24-3	Decachlorobiphenyl	79%		12-139%
2051-24-3	Decachlorobiphenyl	77%		12-139%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID:	GP16		
Lab Sample ID:	J98426-1	**Date Sampled:**	08/18/08
Matrix:	AQ - Ground Water	**Date Received:**	08/19/08
Method:	SW846-8015 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Z7756.D	1	08/21/08	PM	08/20/08	OP34208	G3Z256
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.10	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	101%		31-132%
16416-32-3	Tetracosane-d50	117%		26-139%
438-22-2	5a-Androstane	97%		26-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID:	GP16		
Lab Sample ID:	J98426-1	**Date Sampled:**	08/18/08
Matrix:	AQ - Ground Water	**Date Received:**	08/19/08
		Percent Solids:	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/21/08	08/21/08	JF	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Thallium	4.8	2.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA21344
(2) Instrument QC Batch: MA21348
(3) Prep QC Batch: MP44893
(4) Prep QC Batch: MP44906

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	GP16		
Lab Sample ID:	J98426-1F	**Date Sampled:**	08/18/08
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/19/08
		Percent Solids:	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/21/08	08/21/08	JF	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Thallium	2.5	2.0	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	08/20/08	08/21/08	GT	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA21344
(2) Instrument QC Batch: MA21348
(3) Prep QC Batch: MP44893
(4) Prep QC Batch: MP44906

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP16 (24-28)		
Lab Sample ID:	J98426-2	**Date Sampled:**	08/18/08
Matrix:	SO - Soil	**Date Received:**	08/19/08
Method:	SW846 8260B	**Percent Solids:**	97.3
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G113128.D	1	08/25/08	SJM	n/a	n/a	VG5456
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	18.9	10	2.2	ug/kg	
107-02-8	Acrolein	ND	50	11	ug/kg	
107-13-1	Acrylonitrile	ND	50	1.4	ug/kg	
71-43-2	Benzene	ND	1.0	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.26	ug/kg	
75-25-2	Bromoform	ND	5.0	0.34	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.89	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.2	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.8	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.49	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.28	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.94	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.30	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.69	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	1.4	ug/kg	
67-66-3	Chloroform	ND	5.0	0.47	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.71	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.27	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.37	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.31	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.32	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.39	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.43	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.0	0.53	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.36	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	0.32	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.39	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.27	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.24	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.25	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP16 (24-28)		
Lab Sample ID:	J98426-2	**Date Sampled:**	08/18/08
Matrix:	SO - Soil	**Date Received:**	08/19/08
Method:	SW846 8260B	**Percent Solids:**	97.3
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.41	ug/kg	
76-13-1	Freon 113	ND	5.0	1.1	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.45	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.50	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.36	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	2.4	ug/kg	
75-09-2	Methylene chloride	ND	5.0	0.29	ug/kg	
91-20-3	Naphthalene	ND	5.0	0.49	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.48	ug/kg	
100-42-5	Styrene	ND	5.0	0.29	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.25	ug/kg	
127-18-4	Tetrachloroethene	ND	5.0	0.47	ug/kg	
108-88-3	Toluene	0.74	1.0	0.33	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.42	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.53	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.26	ug/kg	
79-01-6	Trichloroethene	ND	5.0	0.30	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	2.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.24	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.35	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	0.64	ug/kg	
	m,p-Xylene	1.3	2.0	0.66	ug/kg	J
95-47-6	o-Xylene	ND	1.0	0.30	ug/kg	
1330-20-7	Xylene (total)	1.3	2.0	0.30	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		67-125%
17060-07-0	1,2-Dichloroethane-D4	98%		64-131%
2037-26-5	Toluene-D8	101%		73-124%
460-00-4	4-Bromofluorobenzene	95%		61-136%

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N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: GP16 (24-28)
Lab Sample ID: J98426-2 **Date Sampled:** 08/18/08
Matrix: SO - Soil **Date Received:** 08/19/08
Method: SW846 8270C SW846 3550B **Percent Solids:** 97.3
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P38761.D	1	08/25/08	WG	08/20/08	OP34296	EP1602
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	6800	96	ug/kg	
95-57-8	2-Chlorophenol	ND	1700	280	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1700	410	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1700	350	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1700	420	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	6800	3700	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	6800	360	ug/kg	
95-48-7	2-Methylphenol	ND	680	370	ug/kg	
	3&4-Methylphenol	ND	680	460	ug/kg	
88-75-5	2-Nitrophenol	ND	1700	360	ug/kg	
100-02-7	4-Nitrophenol	ND	6800	440	ug/kg	
87-86-5	Pentachlorophenol	ND	3400	440	ug/kg	
108-95-2	Phenol	ND	680	260	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1700	370	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1700	450	ug/kg	
83-32-9	Acenaphthene	ND	340	180	ug/kg	
208-96-8	Acenaphthylene	ND	340	150	ug/kg	
62-53-3	Aniline	ND	680	90	ug/kg	
120-12-7	Anthracene	ND	340	150	ug/kg	
92-87-5	Benzidine	ND	6800	1800	ug/kg	
56-55-3	Benzo(a)anthracene	ND	340	210	ug/kg	
50-32-8	Benzo(a)pyrene	ND	340	140	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	340	180	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	340	170	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	340	170	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	680	190	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	680	170	ug/kg	
91-58-7	2-Chloronaphthalene	ND	680	150	ug/kg	
106-47-8	4-Chloroaniline	ND	1700	140	ug/kg	
86-74-8	Carbazole	ND	680	140	ug/kg	
218-01-9	Chrysene	ND	340	160	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	680	170	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP16 (24-28)		
Lab Sample ID:	J98426-2	**Date Sampled:**	08/18/08
Matrix:	SO - Soil	**Date Received:**	08/19/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.3
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	680	160	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	680	180	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	680	230	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	680	180	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	680	210	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	680	140	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	680	130	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	680	190	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	680	150	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1700	590	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	340	160	ug/kg	
132-64-9	Dibenzofuran	ND	680	160	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	680	210	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	680	150	ug/kg	
84-66-2	Diethyl phthalate	ND	680	150	ug/kg	
131-11-3	Dimethyl phthalate	ND	680	160	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	680	180	ug/kg	
206-44-0	Fluoranthene	ND	340	150	ug/kg	
86-73-7	Fluorene	ND	340	160	ug/kg	
118-74-1	Hexachlorobenzene	ND	680	190	ug/kg	
87-68-3	Hexachlorobutadiene	ND	680	160	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	6800	320	ug/kg	
67-72-1	Hexachloroethane	ND	1700	220	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	340	130	ug/kg	
78-59-1	Isophorone	ND	680	300	ug/kg	
91-57-6	2-Methylnaphthalene	ND	680	150	ug/kg	
88-74-4	2-Nitroaniline	ND	1700	250	ug/kg	
99-09-2	3-Nitroaniline	ND	1700	140	ug/kg	
100-01-6	4-Nitroaniline	ND	1700	210	ug/kg	
91-20-3	Naphthalene	ND	340	150	ug/kg	
98-95-3	Nitrobenzene	ND	680	150	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	680	300	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	680	210	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1700	230	ug/kg	
85-01-8	Phenanthrene	ND	340	170	ug/kg	
129-00-0	Pyrene	ND	340	150	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	680	180	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP16 (24-28)		
Lab Sample ID:	J98426-2	**Date Sampled:**	08/18/08
Matrix:	SO - Soil	**Date Received:**	08/19/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.3
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	100%		29-114%
4165-62-2	Phenol-d5	101%		31-111%
118-79-6	2,4,6-Tribromophenol	105%		27-133%
4165-60-0	Nitrobenzene-d5	103%		36-116%
321-60-8	2-Fluorobiphenyl	102%		44-111%
1718-51-0	Terphenyl-d14	98%		37-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	GP16 (24-28)		
Lab Sample ID:	J98426-2	**Date Sampled:**	08/18/08
Matrix:	SO - Soil	**Date Received:**	08/19/08
Method:	SW846 8015	**Percent Solids:**	97.3
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF67734.D	1	08/21/08	DCA	n/a	n/a	GPF1444
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.9 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	2.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	98%		42-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	GP16 (24-28)		
Lab Sample ID:	J98426-2	**Date Sampled:**	08/18/08
Matrix:	SO - Soil	**Date Received:**	08/19/08
Method:	SW846 8082 SW846 3545	**Percent Solids:**	97.3
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G39441.D	1	08/25/08	OPM	08/20/08	OP34293	G1G1428
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	6.3	ug/kg	
11104-28-2	Aroclor 1221	ND	33	20	ug/kg	
11141-16-5	Aroclor 1232	ND	33	18	ug/kg	
53469-21-9	Aroclor 1242	ND	33	11	ug/kg	
12672-29-6	Aroclor 1248	ND	33	11	ug/kg	
11097-69-1	Aroclor 1254	ND	33	16	ug/kg	
11096-82-5	Aroclor 1260	ND	33	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		44-139%
877-09-8	Tetrachloro-m-xylene	89%		44-139%
2051-24-3	Decachlorobiphenyl	90%		39-147%
2051-24-3	Decachlorobiphenyl	91%		39-147%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: GP16 (24-28)
Lab Sample ID: J98426-2 **Date Sampled:** 08/18/08
Matrix: SO - Soil **Date Received:** 08/19/08
Method: SW846-8015 SW846 3545 **Percent Solids:** 97.3
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Z7752.D	1	08/21/08	PM	08/20/08	OP34294	G3Z256
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	88.7	6.7	1.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		31-152%
16416-32-3	Tetracosane-d50	75%		34-153%
438-22-2	5a-Androstane	67%		36-151%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:15 08-Sep-2008

Report of Analysis

Client Sample ID: GP16 (24-28)
Lab Sample ID: J98426-2
Matrix: SO - Soil
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/18/08
Date Received: 08/19/08
Percent Solids: 97.3

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.1	2.1	mg/kg	1	08/21/08	08/21/08	ND	SW846 6010B [2]	SW846 3050B [3]
Arsenic	< 2.1	2.1	mg/kg	1	08/21/08	08/21/08	ND	SW846 6010B [2]	SW846 3050B [3]
Beryllium	< 0.51	0.51	mg/kg	1	08/21/08	08/21/08	ND	SW846 6010B [2]	SW846 3050B [3]
Cadmium	< 0.51	0.51	mg/kg	1	08/21/08	08/21/08	ND	SW846 6010B [2]	SW846 3050B [3]
Chromium	10.3	1.0	mg/kg	1	08/21/08	08/21/08	ND	SW846 6010B [2]	SW846 3050B [3]
Copper	3.5	2.6	mg/kg	1	08/21/08	08/21/08	ND	SW846 6010B [2]	SW846 3050B [3]
Lead	3.3	2.1	mg/kg	1	08/21/08	08/21/08	ND	SW846 6010B [2]	SW846 3050B [3]
Mercury	< 0.033	0.033	mg/kg	1	08/21/08	08/21/08	JF	SW846 7471A [1]	SW846 7471A [4]
Nickel	< 4.1	4.1	mg/kg	1	08/21/08	08/21/08	ND	SW846 6010B [2]	SW846 3050B [3]
Selenium	< 2.1	2.1	mg/kg	1	08/21/08	08/21/08	ND	SW846 6010B [2]	SW846 3050B [3]
Silver	< 1.0	1.0	mg/kg	1	08/21/08	08/21/08	ND	SW846 6010B [2]	SW846 3050B [3]
Thallium	< 1.0	1.0	mg/kg	1	08/21/08	08/21/08	ND	SW846 6010B [2]	SW846 3050B [3]
Zinc	7.7	2.1	mg/kg	1	08/21/08	08/21/08	ND	SW846 6010B [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA21345
(2) Instrument QC Batch: MA21346
(3) Prep QC Batch: MP44898
(4) Prep QC Batch: MP44909

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST
2235 Us Highway 130, Dayton, NJ 08810
(732) 329-0200 Fax: (732) 329-3499

Accutest Job #: J98426

Client Information			Facility Information		
Consultants Name: Kleinfelder East Inc.			Project Name: Lighthouse Project		
Address: One Corporate Drive, Suite 201			Street: 1255 Hempstead Tpke		
City: Bohemia	State: NY	Zip: 11716	City: Uniondale	State: NY	
Project Contact: Edward N. Savarese			Invoice Contact: Kleinfelder		
Phone #: 631-218-0612			Invoice Phone #: 631 218 0612		
Fax #: 631-218-0787			Location ID#: Lighthouse		
AFE#:			PO#: 08540-49315		

Field ID / Point of Collection	Collection: Date	Time	Sampled By	Matrix	# of bottles	Preservation: HCL	NaOH	HNO3	H2SO4	MEOH	Other	None	EPA Method 8260 (PPTCL)+TAGM+STARS	EPA Method 8270 (PPTCL)+TAGM+STARS	PP metlas (EPA Method 6010/7471)	PP metlas (EPA Method 6010/7471) DISOLVED	TPH EPA Method 8015 (DRO/GRO)	PCB EPA Method 8082
GP16 - 1F	8/18/08	1230	AW	H2O	14	X		X					X	X	X	X	X	X
GP16 (24-28) - 2	8/18/08	1036	SM	Soil	5								X	X	X	X	X	X
Trip blank	—	—	—	H2O		X						X						

Analytical Information

Turnaround Information

- [X] ~~10 Day Turnaround~~ 5-Day TAT — Approved By:
- [ ] 7 Day EMERGENCY
- [ ] 4 Day EMERGENCY
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- [■] Commercial "A"
- [ ] Commercial "B"
- [ ] Full Deliverables
- [ ] Other
- [ ] FULL CLP
- [ ] State Forms
- [ ] Disk Deliverable Format____

Commercial "A" = Results Only

Accutest Log-in Information

EX10, EX65, AMET4, 19KZ, 999 / 0059

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	8-19-08 8am	1	2	8/19/08 1210	2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by Sampler:	Date Time:	Received By:	Seal #	Preserve where applicable	On Ice
5		5	—	NA	Temp. 2.8°C

2A

J98426: Chain of Custody
Page 1 of 3

ACCUTEST Laboratories

Immediate Action Required
Scanned as Problem Note
☒ Action Required at Login
Not Scanned

X

Issue Date: 8/19/08

Sample Receipt Issues Summary

To: Client Services / Login
From: Sample Management

Sample Management Technicians Initials: PWD

Client: Kleinfelder East Project: Uniondale Job #: J98426 COC

- ☒ Trip Blank Not Received
- ☐ Trip Blank Not on Chain of Custody
- ☐ Temperature Criteria (2-6 C) Not Met
  - ☐ Ice Present
  - ☐ No Ice Present
  - ☐ Frozen
- ☐ Sample Received Out of Holding Time
- ☐ Encore received outside of Holding Time
- ☐ Soil VOA vials in DI water to be frozen rec'd outside of 48 hr Holding Time
- ☐ Sample Received Broken
- ☐ Insufficient Volume For Analysis
- ☐ Sample Received Improperly Preserved
- ☐ Times on Chain Don't Match Label
- ☐ ID's on Chain Don't Match Label
- ☐ Sample Labels Not Present on all Bottles
- ☐ Analysis Requested is Unclear or Missing
- ☐ VOC Vials Have Headspace (Macro-bubbles)
- ☐ Bottles Rcv'd, Analysis Not Requested on COC
- ☐ No Bottles Received for Analysis Requested
- ☐ Unclear Filtering Instructions
- ☐ Unclear Compositing Instructions
- ☐ % Solids Jar Not Received
- ☐ No Chain of Custody Received
- ☐ Sample Dates or Times Unclear or Missing

Description of Problem:
tb not rec'd

Form: SM65-01
Rev. Date: 06/05/08

J98426: Chain of Custody
Page 2 of 3

ACCUTEST Laboratories

Response Date: 8/20/08 @ 15:32

Sample Receipt Resolution

Client: Kleinfelder East Project: Uniondale Job #: J98426 ese

Resolution Instructions:

Eddie Savarese notified via e-mail. Proceed with all other analysis.

Initials: AJE

J98426: Chain of Custody
Page 3 of 3

Technical Report for

Kleinfelder

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

PO#08540-49315

Accutest Job Number: J98630

Sampling Date: 08/19/08

Report to:

Kleinfelder

mpagotto@kleinfelder.com

ATTN: Melody Pagotto

Total number of pages in report: **82**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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ACCUTEST LABORATORIES 50 YEARS 1956-2006

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Sample Summary

Kleinfelder

Job No: J98630

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY
Project No: PO#08540-49315

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J98630-1	08/19/08	18:30	SM	08/21/08	AQ	Ground Water	GP-9
J98630-1F	08/19/08	18:30	SM	08/21/08	AQ	Groundwater Filtered	GP-9
J98630-2	08/19/08	08:04	SM	08/21/08	SO	Soil	GP-9(24-28)
J98630-3	08/19/08	19:30	SM	08/21/08	AQ	Trip Blank Water	TRIP BLANK
J98630-4	08/19/08	16:30	SM	08/21/08	AQ	Ground Water	GP-10
J98630-4F	08/19/08	16:30	SM	08/21/08	AQ	Groundwater Filtered	GP-10
J98630-5	08/19/08	14:41	SM	08/21/08	SO	Soil	GP-10(22-27)
J98630-6	08/19/08	19:30	SM	08/21/08	AQ	Trip Blank Water	TRIP BLANK
J98630-7	08/19/08	19:30	SM	08/21/08	AQ	Ground Water	GP-14
J98630-7F	08/19/08	19:30	SM	08/21/08	AQ	Groundwater Filtered	GP-14
J98630-8	08/19/08	11:16	SM	08/21/08	SO	Soil	GP-14(24-28')
J98630-9	08/19/08	19:30	SM	08/21/08	AQ	Trip Blank Water	TRIP BLANK
J98630-10	08/19/08	14:30	SM	08/21/08	SO	Soil	GP-3(20-27')

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Kleinfelder

Job No: J98630

Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY
Project No: PO#08540-49315

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J98630-11	08/19/08	19:30	SM	08/21/08	AQ	Trip Blank Water	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Results

Report of Analysis

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-9
Lab Sample ID: J98630-1 **Date Sampled:** 08/19/08
Matrix: AQ - Ground Water **Date Received:** 08/21/08
Method: SW846 8260B **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D23116.D	1	08/27/08	NDJ	n/a	n/a	V3D1028
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-9		
Lab Sample ID:	J98630-1	**Date Sampled:**	08/19/08
Matrix:	AQ - Ground Water	**Date Received:**	08/21/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		72-120%
17060-07-0	1,2-Dichloroethane-D4	110%		59-137%
2037-26-5	Toluene-D8	93%		73-116%
460-00-4	4-Bromofluorobenzene	94%		69-126%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-9
Lab Sample ID: J98630-1 **Date Sampled:** 08/19/08
Matrix: AQ - Ground Water **Date Received:** 08/21/08
Method: SW846 8270C SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z43367.D	1	08/25/08	KLS	08/22/08	OP34346	EZ1537
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	20	3.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	1.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	4.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	1.2	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.4	ug/l	
	3&4-Methylphenol	ND	2.0	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	2.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.6	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.38	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.54	ug/l	
62-53-3	Aniline	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	1.0	0.42	ug/l	
92-87-5	Benzidine	ND	20	8.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.38	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.53	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.46	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.57	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.41	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.33	ug/l	
86-74-8	Carbazole	ND	2.0	0.45	ug/l	
218-01-9	Chrysene	ND	1.0	0.44	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.52	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-9		
Lab Sample ID:	J98630-1	**Date Sampled:**	08/19/08
Matrix:	AQ - Ground Water	**Date Received:**	08/21/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.45	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.35	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	2.0	0.52	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.33	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	4.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.45	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.50	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.36	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.75	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.40	ug/l	
86-73-7	Fluorene	ND	1.0	0.40	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	0.45	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.38	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	4.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.42	ug/l	
78-59-1	Isophorone	ND	2.0	0.69	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.45	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.45	ug/l	
91-20-3	Naphthalene	ND	1.0	0.32	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.66	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.36	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.39	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	1.0	1.0	0.34	ug/l	
129-00-0	Pyrene	ND	1.0	0.48	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.37	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-9		
Lab Sample ID:	J98630-1	**Date Sampled:**	08/19/08
Matrix:	AQ - Ground Water	**Date Received:**	08/21/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	17%		10-69%
4165-62-2	Phenol-d5	12%		10-52%
118-79-6	2,4,6-Tribromophenol	60%		32-134%
4165-60-0	Nitrobenzene-d5	25%		23-116%
321-60-8	2-Fluorobiphenyl	32%		28-109%
1718-51-0	Terphenyl-d14	57%		24-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-9		
Lab Sample ID:	J98630-1	**Date Sampled:**	08/19/08
Matrix:	AQ - Ground Water	**Date Received:**	08/21/08
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV59467.D	1	08/26/08	DCA	n/a	n/a	GUV2625
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	88%		51-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-9		
Lab Sample ID:	J98630-1	**Date Sampled:**	08/19/08
Matrix:	AQ - Ground Water	**Date Received:**	08/21/08
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G39391.D	1	08/24/08	OPM	08/22/08	OP34103	G1G1426
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.094	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.47	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.16	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	72%		23-131%
877-09-8	Tetrachloro-m-xylene	72%		23-131%
2051-24-3	Decachlorobiphenyl	42%		12-139%
2051-24-3	Decachlorobiphenyl	42%		12-139%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-9
Lab Sample ID: J98630-1 **Date Sampled:** 08/19/08
Matrix: AQ - Ground Water **Date Received:** 08/21/08
Method: SW846-8015 SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ48981.D	1	08/25/08	PM	08/23/08	OP34359	GYZ1401
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.185	0.10	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		31-132%
16416-32-3	Tetracosane-d50	66%		26-139%
438-22-2	5a-Androstane	61%		26-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-9		
Lab Sample ID:	J98630-1	**Date Sampled:**	08/19/08
Matrix:	AQ - Ground Water	**Date Received:**	08/21/08
		Percent Solids:	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/27/08	08/27/08	JF	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Thallium	< 2.0	2.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA21369
(2) Instrument QC Batch: MA21370
(3) Prep QC Batch: MP44974
(4) Prep QC Batch: MP44983

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	GP-9		
Lab Sample ID:	J98630-1F	**Date Sampled:**	08/19/08
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/21/08
		Percent Solids:	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/27/08	08/27/08	JF	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Thallium	< 2.0	2.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA21369
(2) Instrument QC Batch: MA21370
(3) Prep QC Batch: MP44974
(4) Prep QC Batch: MP44983

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-9(24-28)		
Lab Sample ID:	J98630-2	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8260B	**Percent Solids:**	97.1
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V82351.D	1	08/27/08	JLI	n/a	n/a	VV3325
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.2	ug/kg	
107-02-8	Acrolein	ND	51	11	ug/kg	
107-13-1	Acrylonitrile	ND	51	1.4	ug/kg	
71-43-2	Benzene	ND	1.0	0.36	ug/kg	
75-27-4	Bromodichloromethane	ND	5.1	0.27	ug/kg	
75-25-2	Bromoform	ND	5.1	0.35	ug/kg	
74-83-9	Bromomethane	ND	5.1	0.91	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/kg	
104-51-8	n-Butylbenzene	ND	5.1	1.8	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.1	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.1	0.29	ug/kg	
75-15-0	Carbon disulfide	ND	5.1	0.52	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.1	0.96	ug/kg	
108-90-7	Chlorobenzene	ND	5.1	0.31	ug/kg	
75-00-3	Chloroethane	ND	5.1	0.70	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	26	1.4	ug/kg	
67-66-3	Chloroform	ND	5.1	0.48	ug/kg	
74-87-3	Chloromethane	ND	5.1	0.73	ug/kg	
124-48-1	Dibromochloromethane	ND	5.1	0.28	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.1	0.38	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.1	0.31	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.1	0.32	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.1	1.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.1	0.40	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.44	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.1	0.54	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.1	0.37	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.1	0.33	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.1	0.40	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.1	0.28	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.1	0.25	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.1	0.26	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-9(24-28)		
Lab Sample ID:	J98630-2	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8260B	**Percent Solids:**	97.1
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.42	ug/kg	
76-13-1	Freon 113	ND	5.1	1.1	ug/kg	
591-78-6	2-Hexanone	ND	5.1	2.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.1	0.46	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.1	0.51	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.36	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.1	2.5	ug/kg	
75-09-2	Methylene chloride	ND	5.1	0.30	ug/kg	
91-20-3	Naphthalene	ND	5.1	0.50	ug/kg	
103-65-1	n-Propylbenzene	ND	5.1	0.49	ug/kg	
100-42-5	Styrene	ND	5.1	0.30	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.1	0.26	ug/kg	
127-18-4	Tetrachloroethene	ND	5.1	0.48	ug/kg	
108-88-3	Toluene	ND	1.0	0.34	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	0.43	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.1	0.54	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.1	0.26	ug/kg	
79-01-6	Trichloroethene	ND	5.1	0.30	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.1	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.1	2.3	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.1	0.25	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.1	0.36	ug/kg	
75-01-4	Vinyl chloride	ND	5.1	0.65	ug/kg	
	m,p-Xylene	ND	2.1	0.68	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.31	ug/kg	
1330-20-7	Xylene (total)	ND	2.1	0.31	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		67-125%
17060-07-0	1,2-Dichloroethane-D4	97%		64-131%
2037-26-5	Toluene-D8	101%		73-124%
460-00-4	4-Bromofluorobenzene	90%		61-136%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: GP-9(24-28)
Lab Sample ID: J98630-2 **Date Sampled:** 08/19/08
Matrix: SO - Soil **Date Received:** 08/21/08
Method: SW846 8270C SW846 3550B **Percent Solids:** 97.1
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z43419.D	1	08/27/08	KLS	08/23/08	OP34356	EZ1539
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	680	9.6	ug/kg	
95-57-8	2-Chlorophenol	ND	170	28	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	41	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	35	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	41	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	680	370	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	680	36	ug/kg	
95-48-7	2-Methylphenol	ND	68	37	ug/kg	
	3&4-Methylphenol	ND	68	46	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	680	43	ug/kg	
87-86-5	Pentachlorophenol	ND	340	44	ug/kg	
108-95-2	Phenol	ND	68	26	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	45	ug/kg	
83-32-9	Acenaphthene	ND	34	18	ug/kg	
208-96-8	Acenaphthylene	ND	34	15	ug/kg	
62-53-3	Aniline	ND	68	9.0	ug/kg	
120-12-7	Anthracene	ND	34	15	ug/kg	
92-87-5	Benzidine	ND	680	180	ug/kg	
56-55-3	Benzo(a)anthracene	ND	34	21	ug/kg	
50-32-8	Benzo(a)pyrene	ND	34	14	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	34	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	34	16	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	34	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	68	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	68	17	ug/kg	
91-58-7	2-Chloronaphthalene	ND	68	15	ug/kg	
106-47-8	4-Chloroaniline	ND	170	14	ug/kg	
86-74-8	Carbazole	ND	68	14	ug/kg	
218-01-9	Chrysene	ND	34	16	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	68	17	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-9(24-28)		
Lab Sample ID:	J98630-2	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.1
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	68	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	68	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	68	23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	68	18	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	68	21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	68	14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	68	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	68	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	68	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	59	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	16	ug/kg	
132-64-9	Dibenzofuran	ND	68	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	68	21	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	68	15	ug/kg	
84-66-2	Diethyl phthalate	ND	68	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	68	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	54.7	68	18	ug/kg	J
206-44-0	Fluoranthene	ND	34	15	ug/kg	
86-73-7	Fluorene	ND	34	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	68	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	68	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	680	32	ug/kg	
67-72-1	Hexachloroethane	ND	170	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34	13	ug/kg	
78-59-1	Isophorone	ND	68	30	ug/kg	
91-57-6	2-Methylnaphthalene	ND	68	15	ug/kg	
88-74-4	2-Nitroaniline	ND	170	25	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	21	ug/kg	
91-20-3	Naphthalene	ND	34	15	ug/kg	
98-95-3	Nitrobenzene	ND	68	15	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	68	30	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	68	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	23	ug/kg	
85-01-8	Phenanthrene	ND	34	17	ug/kg	
129-00-0	Pyrene	ND	34	15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	68	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-9(24-28)		
Lab Sample ID:	J98630-2	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.1
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	76%		29-114%
4165-62-2	Phenol-d5	75%		31-111%
118-79-6	2,4,6-Tribromophenol	88%		27-133%
4165-60-0	Nitrobenzene-d5	63%		36-116%
321-60-8	2-Fluorobiphenyl	65%		44-111%
1718-51-0	Terphenyl-d14	74%		37-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-9(24-28)		
Lab Sample ID:	J98630-2	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8015	**Percent Solids:**	97.1
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF67819.D	1	08/25/08	DCA	n/a	n/a	GPF1447
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.7 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	2.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	95%		42-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-9(24-28)
Lab Sample ID: J98630-2 **Date Sampled:** 08/19/08
Matrix: SO - Soil **Date Received:** 08/21/08
Method: SW846 8082 SW846 3545 **Percent Solids:** 97.1
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G31437.D	1	08/27/08	JSE	08/23/08	OP34234	G2G1224
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	6.4	ug/kg	
11104-28-2	Aroclor 1221	ND	33	20	ug/kg	
11141-16-5	Aroclor 1232	ND	33	18	ug/kg	
53469-21-9	Aroclor 1242	ND	33	11	ug/kg	
12672-29-6	Aroclor 1248	ND	33	12	ug/kg	
11097-69-1	Aroclor 1254	ND	33	16	ug/kg	
11096-82-5	Aroclor 1260	ND	33	6.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%		44-139%
877-09-8	Tetrachloro-m-xylene	98%		44-139%
2051-24-3	Decachlorobiphenyl	109%		39-147%
2051-24-3	Decachlorobiphenyl	110%		39-147%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-9(24-28)
Lab Sample ID: J98630-2 **Date Sampled:** 08/19/08
Matrix: SO - Soil **Date Received:** 08/21/08
Method: SW846-8015 SW846 3545 **Percent Solids:** 97.1
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Z7826.D	1	08/26/08	PM	08/23/08	OP34351	G3Z259
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	6.8	1.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		31-152%
16416-32-3	Tetracosane-d50	98%		34-153%
438-22-2	5a-Androstane	84%		36-151%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-9(24-28)
Lab Sample ID: J98630-2
Matrix: SO - Soil
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/19/08
Date Received: 08/21/08
Percent Solids: 97.1

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.1	2.1	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Arsenic	3.5	2.1	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Beryllium	< 0.53	0.53	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Cadmium	< 0.53	0.53	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Chromium	9.2	1.1	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Copper	3.8	2.7	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Lead	2.9	2.1	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Mercury	< 0.033	0.033	mg/kg	1	08/27/08	08/27/08	JF	SW846 7471A [1]	SW846 7471A [3]
Nickel	< 4.2	4.2	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Selenium	< 2.1	2.1	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Silver	< 1.1	1.1	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Thallium	< 1.1	1.1	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Zinc	6.7	2.1	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA21368
(2) Instrument QC Batch: MA21379
(3) Prep QC Batch: MP44979
(4) Prep QC Batch: MP44990

RL = Reporting Limit

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Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: J98630-3 **Date Sampled:** 08/19/08
Matrix: AQ - Trip Blank Water **Date Received:** 08/21/08
Method: SW846 8260B **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D23117.D	1	08/27/08	NDJ	n/a	n/a	V3D1028
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	J98630-3	**Date Sampled:**	08/19/08
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/21/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		72-120%
17060-07-0	1,2-Dichloroethane-D4	111%		59-137%
2037-26-5	Toluene-D8	95%		73-116%
460-00-4	4-Bromofluorobenzene	94%		69-126%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-10
Lab Sample ID: J98630-4 **Date Sampled:** 08/19/08
Matrix: AQ - Ground Water **Date Received:** 08/21/08
Method: SW846 8260B **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D23118.D	1	08/27/08	NDJ	n/a	n/a	V3D1028
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-10		
Lab Sample ID:	J98630-4	**Date Sampled:**	08/19/08
Matrix:	AQ - Ground Water	**Date Received:**	08/21/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		72-120%
17060-07-0	1,2-Dichloroethane-D4	112%		59-137%
2037-26-5	Toluene-D8	96%		73-116%
460-00-4	4-Bromofluorobenzene	95%		69-126%

ND = Not detected MDL - Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GP-10
Lab Sample ID: J98630-4 **Date Sampled:** 08/19/08
Matrix: AQ - Ground Water **Date Received:** 08/21/08
Method: SW846 8270C SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z43368.D	1	08/25/08	KLS	08/22/08	OP34346	EZ1537
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	20	3.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	1.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	4.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	1.2	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.4	ug/l	
	3&4-Methylphenol	ND	2.0	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	2.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.6	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.38	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.54	ug/l	
62-53-3	Aniline	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	1.0	0.42	ug/l	
92-87-5	Benzidine	ND	20	8.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.38	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.53	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.46	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.57	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.41	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.33	ug/l	
86-74-8	Carbazole	ND	2.0	0.45	ug/l	
218-01-9	Chrysene	ND	1.0	0.44	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.52	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-10		
Lab Sample ID:	J98630-4	**Date Sampled:**	08/19/08
Matrix:	AQ - Ground Water	**Date Received:**	08/21/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.45	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.35	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	2.0	0.52	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.33	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	4.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.45	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	3.1	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.50	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.36	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.75	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.40	ug/l	
86-73-7	Fluorene	ND	1.0	0.40	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	0.45	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.38	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	4.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.42	ug/l	
78-59-1	Isophorone	ND	2.0	0.69	ug/l	
91-57-6	2-Methylnaphthalene	0.54	2.0	0.43	ug/l	J
88-74-4	2-Nitroaniline	ND	5.0	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.45	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.45	ug/l	
91-20-3	Naphthalene	ND	1.0	0.32	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.66	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.36	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.39	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	0.45	1.0	0.34	ug/l	J
129-00-0	Pyrene	ND	1.0	0.48	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.37	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-10		
Lab Sample ID:	J98630-4	**Date Sampled:**	08/19/08
Matrix:	AQ - Ground Water	**Date Received:**	08/21/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		10-69%
4165-62-2	Phenol-d5	22%		10-52%
118-79-6	2,4,6-Tribromophenol	98%		32-134%
4165-60-0	Nitrobenzene-d5	55%		23-116%
321-60-8	2-Fluorobiphenyl	55%		28-109%
1718-51-0	Terphenyl-d14	83%		24-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-10		
Lab Sample ID:	J98630-4	**Date Sampled:**	08/19/08
Matrix:	AQ - Ground Water	**Date Received:**	08/21/08
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV59468.D	1	08/26/08	DCA	n/a	n/a	GUV2625
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	91%		51-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-10		
Lab Sample ID:	J98630-4	**Date Sampled:**	08/19/08
Matrix:	AQ - Ground Water	**Date Received:**	08/21/08
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G39392.D	1	08/24/08	OPM	08/22/08	OP34103	G1G1426
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.094	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.47	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.16	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		23-131%
877-09-8	Tetrachloro-m-xylene	80%		23-131%
2051-24-3	Decachlorobiphenyl	44%		12-139%
2051-24-3	Decachlorobiphenyl	44%		12-139%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: GP-10
Lab Sample ID: J98630-4 **Date Sampled:** 08/19/08
Matrix: AQ - Ground Water **Date Received:** 08/21/08
Method: SW846-8015 SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ48982.D	1	08/25/08	PM	08/23/08	OP34359	GYZ1401
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.365	0.10	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	102%		31-132%
16416-32-3	Tetracosane-d50	91%		26-139%
438-22-2	5a-Androstane	82%		26-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-10
Lab Sample ID: J98630-4
Matrix: AQ - Ground Water
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/19/08
Date Received: 08/21/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/27/08	08/27/08	JF	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Thallium	< 2.0	2.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Zinc	32.9	20	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA21369
(2) Instrument QC Batch: MA21370
(3) Prep QC Batch: MP44974
(4) Prep QC Batch: MP44983

RL = Reporting Limit

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-10		
Lab Sample ID:	J98630-4F	**Date Sampled:**	08/19/08
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/21/08
		Percent Solids:	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Chromium	38.7	10	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/27/08	08/27/08	JF	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Thallium	< 2.0	2.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Zinc	27.0	20	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA21369
(2) Instrument QC Batch: MA21370
(3) Prep QC Batch: MP44974
(4) Prep QC Batch: MP44983

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-10(22-27)		
Lab Sample ID:	J98630-5	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8260B	**Percent Solids:**	97.4
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V82352.D	1	08/27/08	JLI	n/a	n/a	VV3325
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.2	ug/kg	
107-02-8	Acrolein	ND	51	11	ug/kg	
107-13-1	Acrylonitrile	ND	51	1.4	ug/kg	
71-43-2	Benzene	ND	1.0	0.36	ug/kg	
75-27-4	Bromodichloromethane	ND	5.1	0.27	ug/kg	
75-25-2	Bromoform	ND	5.1	0.34	ug/kg	
74-83-9	Bromomethane	ND	5.1	0.90	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/kg	
104-51-8	n-Butylbenzene	ND	5.1	1.8	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.1	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.1	0.29	ug/kg	
75-15-0	Carbon disulfide	ND	5.1	0.51	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.1	0.96	ug/kg	
108-90-7	Chlorobenzene	ND	5.1	0.30	ug/kg	
75-00-3	Chloroethane	ND	5.1	0.70	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	26	1.4	ug/kg	
67-66-3	Chloroform	ND	5.1	0.48	ug/kg	
74-87-3	Chloromethane	ND	5.1	0.73	ug/kg	
124-48-1	Dibromochloromethane	ND	5.1	0.28	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.1	0.38	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.1	0.31	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.1	0.32	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.1	1.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.1	0.40	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.44	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.1	0.54	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.1	0.37	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.1	0.33	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.1	0.40	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.1	0.28	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.1	0.25	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.1	0.26	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-10(22-27)		
Lab Sample ID:	J98630-5	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8260B	**Percent Solids:**	97.4
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.42	ug/kg	
76-13-1	Freon 113	ND	5.1	1.1	ug/kg	
591-78-6	2-Hexanone	ND	5.1	2.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.1	0.46	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.1	0.51	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.36	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.1	2.5	ug/kg	
75-09-2	Methylene chloride	ND	5.1	0.30	ug/kg	
91-20-3	Naphthalene	ND	5.1	0.49	ug/kg	
103-65-1	n-Propylbenzene	ND	5.1	0.49	ug/kg	
100-42-5	Styrene	ND	5.1	0.29	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.1	0.26	ug/kg	
127-18-4	Tetrachloroethene	ND	5.1	0.48	ug/kg	
108-88-3	Toluene	ND	1.0	0.34	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	0.43	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.1	0.54	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.1	0.26	ug/kg	
79-01-6	Trichloroethene	ND	5.1	0.30	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.1	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.1	2.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.1	0.25	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.1	0.36	ug/kg	
75-01-4	Vinyl chloride	ND	5.1	0.65	ug/kg	
	m,p-Xylene	ND	2.1	0.68	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.31	ug/kg	
1330-20-7	Xylene (total)	ND	2.1	0.31	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		67-125%
17060-07-0	1,2-Dichloroethane-D4	102%		64-131%
2037-26-5	Toluene-D8	102%		73-124%
460-00-4	4-Bromofluorobenzene	92%		61-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GP-10(22-27)
Lab Sample ID: J98630-5 **Date Sampled:** 08/19/08
Matrix: SO - Soil **Date Received:** 08/21/08
Method: SW846 8270C SW846 3550B **Percent Solids:** 97.4
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z43416.D	1	08/27/08	KLS	08/23/08	OP34356	EZ1539
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	680	9.6	ug/kg	
95-57-8	2-Chlorophenol	ND	170	28	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	41	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	35	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	42	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	680	370	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	680	36	ug/kg	
95-48-7	2-Methylphenol	ND	68	37	ug/kg	
	3&4-Methylphenol	ND	68	46	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	680	44	ug/kg	
87-86-5	Pentachlorophenol	ND	340	44	ug/kg	
108-95-2	Phenol	ND	68	26	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	45	ug/kg	
83-32-9	Acenaphthene	ND	34	18	ug/kg	
208-96-8	Acenaphthylene	ND	34	15	ug/kg	
62-53-3	Aniline	ND	68	9.0	ug/kg	
120-12-7	Anthracene	ND	34	15	ug/kg	
92-87-5	Benzidine	ND	680	180	ug/kg	
56-55-3	Benzo(a)anthracene	ND	34	21	ug/kg	
50-32-8	Benzo(a)pyrene	ND	34	14	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	34	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	34	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	34	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	68	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	68	17	ug/kg	
91-58-7	2-Chloronaphthalene	ND	68	15	ug/kg	
106-47-8	4-Chloroaniline	ND	170	14	ug/kg	
86-74-8	Carbazole	ND	68	15	ug/kg	
218-01-9	Chrysene	ND	34	16	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	68	17	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-10(22-27)		
Lab Sample ID:	J98630-5	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.4
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	68	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	68	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	68	23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	68	18	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	68	21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	68	14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	68	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	68	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	68	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	59	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	16	ug/kg	
132-64-9	Dibenzofuran	ND	68	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	68	21	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	68	15	ug/kg	
84-66-2	Diethyl phthalate	ND	68	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	68	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	68	18	ug/kg	
206-44-0	Fluoranthene	ND	34	15	ug/kg	
86-73-7	Fluorene	ND	34	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	68	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	68	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	680	32	ug/kg	
67-72-1	Hexachloroethane	ND	170	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34	13	ug/kg	
78-59-1	Isophorone	ND	68	30	ug/kg	
91-57-6	2-Methylnaphthalene	ND	68	15	ug/kg	
88-74-4	2-Nitroaniline	ND	170	25	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	21	ug/kg	
91-20-3	Naphthalene	ND	34	15	ug/kg	
98-95-3	Nitrobenzene	ND	68	15	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	68	30	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	68	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	23	ug/kg	
85-01-8	Phenanthrene	ND	34	17	ug/kg	
129-00-0	Pyrene	ND	34	15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	68	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-10(22-27)		
Lab Sample ID:	J98630-5	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.4
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	77%		29-114%
4165-62-2	Phenol-d5	74%		31-111%
118-79-6	2,4,6-Tribromophenol	93%		27-133%
4165-60-0	Nitrobenzene-d5	65%		36-116%
321-60-8	2-Fluorobiphenyl	65%		44-111%
1718-51-0	Terphenyl-d14	77%		37-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-10(22-27)		
Lab Sample ID:	J98630-5	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8015	**Percent Solids:**	97.4
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF67820.D	1	08/25/08	DCA	n/a	n/a	GPF1447
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	2.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	96%		42-141%

ND = Not detected MDL - Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-10(22-27)		
Lab Sample ID:	J98630-5	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8082 SW846 3545	**Percent Solids:**	97.4
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G31438.D	1	08/27/08	JSE	08/23/08	OP34234	G2G1224
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	6.4	ug/kg	
11104-28-2	Aroclor 1221	ND	34	20	ug/kg	
11141-16-5	Aroclor 1232	ND	34	18	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	12	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	ND	34	6.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		44-139%
877-09-8	Tetrachloro-m-xylene	85%		44-139%
2051-24-3	Decachlorobiphenyl	95%		39-147%
2051-24-3	Decachlorobiphenyl	95%		39-147%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-10(22-27)
Lab Sample ID: J98630-5 **Date Sampled:** 08/19/08
Matrix: SO - Soil **Date Received:** 08/21/08
Method: SW846-8015 SW846 3545 **Percent Solids:** 97.4
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Z7829.D	1	08/26/08	PM	08/23/08	OP34351	G3Z259
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	6.8	1.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		31-152%
16416-32-3	Tetracosane-d50	96%		34-153%
438-22-2	5a-Androstane	79%		36-151%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-10(22-27)
Lab Sample ID: J98630-5
Matrix: SO - Soil
Date Sampled: 08/19/08
Date Received: 08/21/08
Percent Solids: 97.4
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.0	2.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Arsenic	< 2.0	2.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Beryllium	< 0.51	0.51	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Cadmium	< 0.51	0.51	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Chromium	6.5	1.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Copper	3.2	2.5	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Lead	< 2.0	2.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Mercury	< 0.030	0.030	mg/kg	1	08/27/08	08/27/08	JF	SW846 7471A [1]	SW846 7471A [3]
Nickel	< 4.1	4.1	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Selenium	< 2.0	2.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Silver	< 1.0	1.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Thallium	< 1.0	1.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Zinc	5.1	2.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA21368
(2) Instrument QC Batch: MA21379
(3) Prep QC Batch: MP44979
(4) Prep QC Batch: MP44990

RL = Reporting Limit

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: J98630-6
Matrix: AQ - Trip Blank Water
Method: SW846 8260B
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/19/08
Date Received: 08/21/08
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D23119.D	1	08/27/08	NDJ	n/a	n/a	V3D1028
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	J98630-6	**Date Sampled:**	08/19/08
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/21/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		72-120%
17060-07-0	1,2-Dichloroethane-D4	113%		59-137%
2037-26-5	Toluene-D8	96%		73-116%
460-00-4	4-Bromofluorobenzene	93%		69-126%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GP-14
Lab Sample ID: J98630-7 **Date Sampled:** 08/19/08
Matrix: AQ - Ground Water **Date Received:** 08/21/08
Method: SW846 8260B **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D23120.D	1	08/27/08	NDJ	n/a	n/a	V3D1028
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-14		
Lab Sample ID:	J98630-7	**Date Sampled:**	08/19/08
Matrix:	AQ - Ground Water	**Date Received:**	08/21/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		72-120%
17060-07-0	1,2-Dichloroethane-D4	116%		59-137%
2037-26-5	Toluene-D8	97%		73-116%
460-00-4	4-Bromofluorobenzene	94%		69-126%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GP-14
Lab Sample ID: J98630-7 **Date Sampled:** 08/19/08
Matrix: AQ - Ground Water **Date Received:** 08/21/08
Method: SW846 8270C SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z43369.D	1	08/25/08	KLS	08/22/08	OP34346	EZ1537
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	20	3.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	1.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	4.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	1.2	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.4	ug/l	
	3&4-Methylphenol	ND	2.0	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	2.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.6	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.38	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.54	ug/l	
62-53-3	Aniline	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	1.0	0.42	ug/l	
92-87-5	Benzidine	ND	20	8.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.38	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.53	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.46	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.57	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.41	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.33	ug/l	
86-74-8	Carbazole	ND	2.0	0.45	ug/l	
218-01-9	Chrysene	ND	1.0	0.44	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.52	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-14		
Lab Sample ID:	J98630-7	**Date Sampled:**	08/19/08
Matrix:	AQ - Ground Water	**Date Received:**	08/21/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.45	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.35	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	2.0	0.52	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.33	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	4.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.45	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.50	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.36	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.75	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.40	ug/l	
86-73-7	Fluorene	ND	1.0	0.40	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	0.45	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.38	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	4.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.42	ug/l	
78-59-1	Isophorone	ND	2.0	0.69	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.45	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.45	ug/l	
91-20-3	Naphthalene	ND	1.0	0.32	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.66	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.36	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.39	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.61	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.34	ug/l	
129-00-0	Pyrene	ND	1.0	0.48	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.37	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-14		
Lab Sample ID:	J98630-7	**Date Sampled:**	08/19/08
Matrix:	AQ - Ground Water	**Date Received:**	08/21/08
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		10-69%
4165-62-2	Phenol-d5	29%		10-52%
118-79-6	2,4,6-Tribromophenol	81%		32-134%
4165-60-0	Nitrobenzene-d5	68%		23-116%
321-60-8	2-Fluorobiphenyl	65%		28-109%
1718-51-0	Terphenyl-d14	82%		24-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-14		
Lab Sample ID:	J98630-7	**Date Sampled:**	08/19/08
Matrix:	AQ - Ground Water	**Date Received:**	08/21/08
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV59469.D	1	08/26/08	DCA	n/a	n/a	GUV2625
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	91%		51-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-14		
Lab Sample ID:	J98630-7	**Date Sampled:**	08/19/08
Matrix:	AQ - Ground Water	**Date Received:**	08/21/08
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G39394.D	1	08/24/08	OPM	08/22/08	OP34103	G1G1426
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.094	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.47	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.16	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		23-131%
877-09-8	Tetrachloro-m-xylene	88%		23-131%
2051-24-3	Decachlorobiphenyl	55%		12-139%
2051-24-3	Decachlorobiphenyl	54%		12-139%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-14
Lab Sample ID: J98630-7 **Date Sampled:** 08/19/08
Matrix: AQ - Ground Water **Date Received:** 08/21/08
Method: SW846-8015 SW846 3510C **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ48983.D	1	08/25/08	PM	08/23/08	OP34359	GYZ1401
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.10	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		31-132%
16416-32-3	Tetracosane-d50	77%		26-139%
438-22-2	5a-Androstane	73%		26-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-14
Lab Sample ID: J98630-7
Matrix: AQ - Ground Water
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/19/08
Date Received: 08/21/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/27/08	08/27/08	JF	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Thallium	< 2.0	2.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA21369
(2) Instrument QC Batch: MA21370
(3) Prep QC Batch: MP44974
(4) Prep QC Batch: MP44983

RL = Reporting Limit

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-14
Lab Sample ID: J98630-7F
Matrix: AQ - Groundwater Filtered
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/19/08
Date Received: 08/21/08
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/27/08	08/27/08	JF	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Thallium	< 2.0	2.0	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	08/27/08	08/27/08	ND	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA21369
(2) Instrument QC Batch: MA21370
(3) Prep QC Batch: MP44974
(4) Prep QC Batch: MP44983

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-14(24-28')		
Lab Sample ID:	J98630-8	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8260B	**Percent Solids:**	97.4
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V82353.D	1	08/27/08	JLI	n/a	n/a	VV3325
Run #2							

	Initial Weight
Run #1	5.3 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9.7	2.1	ug/kg	
107-02-8	Acrolein	ND	48	10	ug/kg	
107-13-1	Acrylonitrile	ND	48	1.3	ug/kg	
71-43-2	Benzene	ND	0.97	0.34	ug/kg	
75-27-4	Bromodichloromethane	ND	4.8	0.25	ug/kg	
75-25-2	Bromoform	ND	4.8	0.32	ug/kg	
74-83-9	Bromomethane	ND	4.8	0.85	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.7	2.1	ug/kg	
104-51-8	n-Butylbenzene	ND	4.8	1.7	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.8	0.47	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.8	0.27	ug/kg	
75-15-0	Carbon disulfide	ND	4.8	0.49	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.8	0.91	ug/kg	
108-90-7	Chlorobenzene	ND	4.8	0.29	ug/kg	
75-00-3	Chloroethane	ND	4.8	0.66	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	24	1.3	ug/kg	
67-66-3	Chloroform	ND	4.8	0.45	ug/kg	
74-87-3	Chloromethane	ND	4.8	0.68	ug/kg	
124-48-1	Dibromochloromethane	ND	4.8	0.26	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.36	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.29	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.30	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.8	1.5	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.8	0.38	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.97	0.41	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.8	0.51	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.8	0.35	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.8	0.31	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.8	0.38	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.8	0.26	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.8	0.24	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.8	0.24	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-14(24-28')		
Lab Sample ID:	J98630-8	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8260B	**Percent Solids:**	97.4
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	0.97	0.39	ug/kg	
76-13-1	Freon 113	ND	4.8	1.0	ug/kg	
591-78-6	2-Hexanone	ND	4.8	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	4.8	0.43	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.8	0.48	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.97	0.34	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.8	2.3	ug/kg	
75-09-2	Methylene chloride	ND	4.8	0.28	ug/kg	
91-20-3	Naphthalene	ND	4.8	0.47	ug/kg	
103-65-1	n-Propylbenzene	ND	4.8	0.46	ug/kg	
100-42-5	Styrene	ND	4.8	0.28	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.8	0.25	ug/kg	
127-18-4	Tetrachloroethene	ND	4.8	0.45	ug/kg	
108-88-3	Toluene	ND	0.97	0.32	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.41	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.8	0.51	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.8	0.25	ug/kg	
79-01-6	Trichloroethene	ND	4.8	0.28	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.8	1.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.8	2.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.8	0.24	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.8	0.34	ug/kg	
75-01-4	Vinyl chloride	ND	4.8	0.61	ug/kg	
	m,p-Xylene	ND	1.9	0.64	ug/kg	
95-47-6	o-Xylene	ND	0.97	0.29	ug/kg	
1330-20-7	Xylene (total)	ND	1.9	0.29	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		67-125%
17060-07-0	1,2-Dichloroethane-D4	106%		64-131%
2037-26-5	Toluene-D8	102%		73-124%
460-00-4	4-Bromofluorobenzene	91%		61-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GP-14(24-28')
Lab Sample ID: J98630-8 **Date Sampled:** 08/19/08
Matrix: SO - Soil **Date Received:** 08/21/08
Method: SW846 8270C SW846 3550B **Percent Solids:** 97.4
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z43417.D	1	08/27/08	KLS	08/23/08	OP34356	EZ1539
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	670	9.5	ug/kg	
95-57-8	2-Chlorophenol	ND	170	28	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	41	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	35	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	41	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	670	360	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	670	36	ug/kg	
95-48-7	2-Methylphenol	ND	67	36	ug/kg	
	3&4-Methylphenol	ND	67	45	ug/kg	
88-75-5	2-Nitrophenol	ND	170	35	ug/kg	
100-02-7	4-Nitrophenol	ND	670	43	ug/kg	
87-86-5	Pentachlorophenol	ND	340	43	ug/kg	
108-95-2	Phenol	ND	67	25	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	36	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	45	ug/kg	
83-32-9	Acenaphthene	ND	34	18	ug/kg	
208-96-8	Acenaphthylene	ND	34	14	ug/kg	
62-53-3	Aniline	ND	67	8.9	ug/kg	
120-12-7	Anthracene	ND	34	15	ug/kg	
92-87-5	Benzidine	ND	670	170	ug/kg	
56-55-3	Benzo(a)anthracene	ND	34	20	ug/kg	
50-32-8	Benzo(a)pyrene	ND	34	14	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	34	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	34	16	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	34	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	18	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	17	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	15	ug/kg	
106-47-8	4-Chloroaniline	ND	170	14	ug/kg	
86-74-8	Carbazole	ND	67	14	ug/kg	
218-01-9	Chrysene	ND	34	16	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	17	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-14(24-28')		
Lab Sample ID:	J98630-8	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.4
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	67	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	67	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	22	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	67	18	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	67	21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	67	14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	67	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	67	18	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	67	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	58	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	16	ug/kg	
132-64-9	Dibenzofuran	ND	67	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	21	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	15	ug/kg	
84-66-2	Diethyl phthalate	ND	67	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	18	ug/kg	
206-44-0	Fluoranthene	ND	34	15	ug/kg	
86-73-7	Fluorene	ND	34	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	67	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	670	32	ug/kg	
67-72-1	Hexachloroethane	ND	170	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34	12	ug/kg	
78-59-1	Isophorone	ND	67	30	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	15	ug/kg	
88-74-4	2-Nitroaniline	ND	170	25	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	21	ug/kg	
91-20-3	Naphthalene	ND	34	15	ug/kg	
98-95-3	Nitrobenzene	ND	67	15	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	67	30	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	23	ug/kg	
85-01-8	Phenanthrene	ND	34	17	ug/kg	
129-00-0	Pyrene	ND	34	15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	67	17	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-14(24-28')		
Lab Sample ID:	J98630-8	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.4
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	75%		29-114%
4165-62-2	Phenol-d5	73%		31-111%
118-79-6	2,4,6-Tribromophenol	84%		27-133%
4165-60-0	Nitrobenzene-d5	64%		36-116%
321-60-8	2-Fluorobiphenyl	66%		44-111%
1718-51-0	Terphenyl-d14	73%		37-131%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	GP-14(24-28')		
Lab Sample ID:	J98630-8	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8015	**Percent Solids:**	97.4
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF67821.D	1	08/25/08	DCA	n/a	n/a	GPF1447
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	2.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	95%		42-141%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-14(24-28')
Lab Sample ID: J98630-8 **Date Sampled:** 08/19/08
Matrix: SO - Soil **Date Received:** 08/21/08
Method: SW846 8082 SW846 3545 **Percent Solids:** 97.4
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G31439.D	1	08/27/08	JSE	08/23/08	OP34234	G2G1224
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	6.4	ug/kg	
11104-28-2	Aroclor 1221	ND	34	20	ug/kg	
11141-16-5	Aroclor 1232	ND	34	18	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	12	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	ND	34	6.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		44-139%
877-09-8	Tetrachloro-m-xylene	81%		44-139%
2051-24-3	Decachlorobiphenyl	91%		39-147%
2051-24-3	Decachlorobiphenyl	91%		39-147%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-14(24-28')		
Lab Sample ID:	J98630-8	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846-8015 SW846 3545	**Percent Solids:**	97.4
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Z7830.D	1	08/26/08	PM	08/23/08	OP34351	G3Z259
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	6.7	1.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		31-152%
16416-32-3	Tetracosane-d50	84%		34-153%
438-22-2	5a-Androstane	72%		36-151%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-14(24-28')		
Lab Sample ID:	J98630-8	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
		Percent Solids:	97.4
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.0	2.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Arsenic	< 2.0	2.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Beryllium	< 0.51	0.51	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Cadmium	< 0.51	0.51	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Chromium	4.1	1.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Copper	3.6	2.5	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Lead	< 2.0	2.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Mercury	< 0.032	0.032	mg/kg	1	08/27/08	08/27/08	JF	SW846 7471A [1]	SW846 7471A [3]
Nickel	< 4.1	4.1	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Selenium	< 2.0	2.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Silver	< 1.0	1.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Thallium	< 1.0	1.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Zinc	3.8	2.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA21368
(2) Instrument QC Batch: MA21379
(3) Prep QC Batch: MP44979
(4) Prep QC Batch: MP44990

RL = Reporting Limit

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Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: J98630-9 **Date Sampled:** 08/19/08
Matrix: AQ - Trip Blank Water **Date Received:** 08/21/08
Method: SW846 8260B **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D23121.D	1	08/27/08	NDJ	n/a	n/a	V3D1028
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	J98630-9	**Date Sampled:**	08/19/08
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/21/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		72-120%
17060-07-0	1,2-Dichloroethane-D4	119%		59-137%
2037-26-5	Toluene-D8	97%		73-116%
460-00-4	4-Bromofluorobenzene	94%		69-126%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-3(20-27')		
Lab Sample ID:	J98630-10	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8260B	**Percent Solids:**	97.2
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V82354.D	1	08/27/08	JLI	n/a	n/a	VV3325
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.2	ug/kg	
107-02-8	Acrolein	ND	50	11	ug/kg	
107-13-1	Acrylonitrile	ND	50	1.4	ug/kg	
71-43-2	Benzene	ND	1.0	0.36	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.26	ug/kg	
75-25-2	Bromoform	ND	5.0	0.34	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.89	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.2	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.8	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.49	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.28	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.51	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.94	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.30	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.69	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	1.4	ug/kg	
67-66-3	Chloroform	ND	5.0	0.47	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.71	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.27	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.37	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.31	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.32	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.40	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.43	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.0	0.53	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.36	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	0.32	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.40	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.27	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.25	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.25	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-3(20-27')		
Lab Sample ID:	J98630-10	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8260B	**Percent Solids:**	97.2
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.41	ug/kg	
76-13-1	Freon 113	ND	5.0	1.1	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.45	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.50	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.36	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	2.4	ug/kg	
75-09-2	Methylene chloride	ND	5.0	0.29	ug/kg	
91-20-3	Naphthalene	ND	5.0	0.49	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.48	ug/kg	
100-42-5	Styrene	ND	5.0	0.29	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.26	ug/kg	
127-18-4	Tetrachloroethene	ND	5.0	0.47	ug/kg	
108-88-3	Toluene	ND	1.0	0.33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.42	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.53	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.26	ug/kg	
79-01-6	Trichloroethene	ND	5.0	0.30	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	2.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.25	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.35	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	0.64	ug/kg	
	m,p-Xylene	ND	2.0	0.66	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.30	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	0.30	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		67-125%
17060-07-0	1,2-Dichloroethane-D4	104%		64-131%
2037-26-5	Toluene-D8	101%		73-124%
460-00-4	4-Bromofluorobenzene	91%		61-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GP-3(20-27')
Lab Sample ID: J98630-10 **Date Sampled:** 08/19/08
Matrix: SO - Soil **Date Received:** 08/21/08
Method: SW846 8270C SW846 3550B **Percent Solids:** 97.2
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z43418.D	1	08/27/08	KLS	08/23/08	OP34356	EZ1539
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	680	9.6	ug/kg	
95-57-8	2-Chlorophenol	ND	170	28	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	41	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	35	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	41	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	680	360	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	680	36	ug/kg	
95-48-7	2-Methylphenol	ND	68	36	ug/kg	
	3&4-Methylphenol	ND	68	45	ug/kg	
88-75-5	2-Nitrophenol	ND	170	35	ug/kg	
100-02-7	4-Nitrophenol	ND	680	43	ug/kg	
87-86-5	Pentachlorophenol	ND	340	44	ug/kg	
108-95-2	Phenol	ND	68	26	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	36	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	45	ug/kg	
83-32-9	Acenaphthene	ND	34	18	ug/kg	
208-96-8	Acenaphthylene	ND	34	14	ug/kg	
62-53-3	Aniline	ND	68	9.0	ug/kg	
120-12-7	Anthracene	ND	34	15	ug/kg	
92-87-5	Benzidine	ND	680	170	ug/kg	
56-55-3	Benzo(a)anthracene	ND	34	20	ug/kg	
50-32-8	Benzo(a)pyrene	16.7	34	14	ug/kg	J
205-99-2	Benzo(b)fluoranthene	ND	34	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	27.6	34	16	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	34	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	68	18	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	68	17	ug/kg	
91-58-7	2-Chloronaphthalene	ND	68	15	ug/kg	
106-47-8	4-Chloroaniline	ND	170	14	ug/kg	
86-74-8	Carbazole	ND	68	14	ug/kg	
218-01-9	Chrysene	ND	34	16	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	68	17	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-3(20-27')		
Lab Sample ID:	J98630-10	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.2
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	68	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	68	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	68	22	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	68	18	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	68	21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	68	14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	68	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	68	18	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	68	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	58	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	16.9	34	16	ug/kg	J
132-64-9	Dibenzofuran	ND	68	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	68	21	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	68	15	ug/kg	
84-66-2	Diethyl phthalate	ND	68	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	68	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	52.0	68	18	ug/kg	J
206-44-0	Fluoranthene	16.4	34	15	ug/kg	J
86-73-7	Fluorene	ND	34	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	68	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	68	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	680	32	ug/kg	
67-72-1	Hexachloroethane	ND	170	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	22.8	34	12	ug/kg	J
78-59-1	Isophorone	ND	68	30	ug/kg	
91-57-6	2-Methylnaphthalene	ND	68	15	ug/kg	
88-74-4	2-Nitroaniline	ND	170	25	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	21	ug/kg	
91-20-3	Naphthalene	ND	34	15	ug/kg	
98-95-3	Nitrobenzene	ND	68	15	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	68	30	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	68	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	23	ug/kg	
85-01-8	Phenanthrene	ND	34	17	ug/kg	
129-00-0	Pyrene	ND	34	15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	68	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-3(20-27')		
Lab Sample ID:	J98630-10	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.2
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	77%		29-114%
4165-62-2	Phenol-d5	75%		31-111%
118-79-6	2,4,6-Tribromophenol	89%		27-133%
4165-60-0	Nitrobenzene-d5	66%		36-116%
321-60-8	2-Fluorobiphenyl	68%		44-111%
1718-51-0	Terphenyl-d14	73%		37-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID:	GP-3(20-27')		
Lab Sample ID:	J98630-10	**Date Sampled:**	08/19/08
Matrix:	SO - Soil	**Date Received:**	08/21/08
Method:	SW846 8015	**Percent Solids:**	97.2
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF67817.D	1	08/25/08	DCA	n/a	n/a	GPF1447
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.4 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	9.8	2.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	95%		42-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-3(20-27')
Lab Sample ID: J98630-10 **Date Sampled:** 08/19/08
Matrix: SO - Soil **Date Received:** 08/21/08
Method: SW846 8082 SW846 3545 **Percent Solids:** 97.2
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G31442.D	1	08/27/08	JSE	08/23/08	OP34234	G2G1224
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	6.4	ug/kg	
11104-28-2	Aroclor 1221	ND	34	20	ug/kg	
11141-16-5	Aroclor 1232	ND	34	18	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	12	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	ND	34	6.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		44-139%
877-09-8	Tetrachloro-m-xylene	99%		44-139%
2051-24-3	Decachlorobiphenyl	114%		39-147%
2051-24-3	Decachlorobiphenyl	117%		39-147%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-3(20-27')
Lab Sample ID: J98630-10 **Date Sampled:** 08/19/08
Matrix: SO - Soil **Date Received:** 08/21/08
Method: SW846-8015 SW846 3545 **Percent Solids:** 97.2
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Z7831.D	1	08/26/08	PM	08/23/08	OP34351	G3Z259
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	6.9	1.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		31-152%
16416-32-3	Tetracosane-d50	101%		34-153%
438-22-2	5a-Androstane	85%		36-151%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@461956 11:16 08-Sep-2008

Report of Analysis

Client Sample ID: GP-3(20-27')
Lab Sample ID: J98630-10
Matrix: SO - Soil
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

Date Sampled: 08/19/08
Date Received: 08/21/08
Percent Solids: 97.2

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.0	2.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Arsenic	5.7	2.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Beryllium	< 0.50	0.50	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Cadmium	< 0.50	0.50	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Chromium	16.9	1.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Copper	4.9	2.5	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Lead	3.5	2.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Mercury	< 0.032	0.032	mg/kg	1	08/27/08	08/27/08	JF	SW846 7471A [1]	SW846 7471A [3]
Nickel	< 4.0	4.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Selenium	< 2.0	2.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Silver	< 1.0	1.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Thallium	< 1.0	1.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]
Zinc	11.0	2.0	mg/kg	1	08/28/08	08/28/08	ND	SW846 6010B [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA21368
(2) Instrument QC Batch: MA21379
(3) Prep QC Batch: MP44979
(4) Prep QC Batch: MP44990

RL = Reporting Limit

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: J98630-11 **Date Sampled:** 08/19/08
Matrix: AQ - Trip Blank Water **Date Received:** 08/21/08
Method: SW846 8260B **Percent Solids:** n/a
Project: Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D23122.D	1	08/27/08	NDJ	n/a	n/a	V3D1028
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.1	ug/l	
107-02-8	Acrolein	ND	50	4.3	ug/l	
107-13-1	Acrylonitrile	ND	50	1.3	ug/l	
71-43-2	Benzene	ND	1.0	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	4.0	0.18	ug/l	
74-83-9	Bromomethane	ND	2.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.15	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.16	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.18	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.22	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.16	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.22	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.88	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.18	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	J98630-11	**Date Sampled:**	08/19/08
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/21/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.80	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.19	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.16	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.18	ug/l	
100-42-5	Styrene	ND	5.0	0.17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.13	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		72-120%
17060-07-0	1,2-Dichloroethane-D4	120%		59-137%
2037-26-5	Toluene-D8	97%		73-116%
460-00-4	4-Bromofluorobenzene	94%		69-126%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Job Change Order: J98630 8/25/2008

Requested Date:	8/25/2008	**Received Date:**	8/21/2008
Account Name:	Leggette, Brashears & Graham,	**Due Date:**	8/26/2008
Project Description:	HAMPOL, 18-02 Pollitt Drive, Fairlawn, NJ	**Deliverable:**	REDT2
CSR:	TE	**TAT (Days):**	14

Sample #:
J98631-1, 7

Change: Log in for SD8015EGLY and SD8015PGLY

Above Changes Edward Savarese **Date:** 8/25/2008

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Page 1 of 1

J98630: Chain of Custody
Page 1 of 2

Job Change Order: J98630_8/26/2008

Requested Date:	8/26/2008	**Received Date:**	8/21/2008
Account Name:	Kleinfelder	**Due Date:**	9/4/2008
Project Description: COMMA	Lighthouse, 1255 Hempstead Turnpike, Uniondale, NY	**Deliverable:**	
CSR:	TE	**TAT (Days):**	8

Sample #:
J98630-all

Change: Change the TAT to 8 days, due on 8/29

J98630: Chain of Custody
Page 2 of 2

Above Changes Edward Savarese **Date:** 8/26/2008

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Page 1 of 1

Appendix 3.1-4

Preliminary Geotechnical Engineering Assessment

KLEINFELDER
Bright People. Right Solutions.

One Corporate Drive, Suite 201
Bohemia, NY 11716
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September 4, 2008
Project No. 95908

Mr. William Schaefer
Environmental Director
Lighthouse Development Group, LLC
1236 RexCorp Plaza
Uniondale, New York 11556

Reference: Preliminary Geotechnical Engineering Evaluation
The Lighthouse at Long Island
Nassau Coliseum, Uniondale, New York

Dear Mr. Schaefer:

Kleinfelder Engineering, PC (Kleinfelder) has completed the authorized preliminary subsurface exploration and geotechnical engineering evaluation for the above-referenced project in general accordance with our proposal dated June 24, 2008. The purpose of the Preliminary Geotechnical Engineering Evaluation was to explore and evaluate the subsurface conditions and to develop preliminary geotechnical opinions and considerations with respect to the proposed site redevelopments. This preliminary report contains a description of the findings of our field exploration to-date, our engineering interpretation of the results with respect to the project characteristics, and our preliminary geotechnical opinions, conclusions and recommendations.

We appreciate the opportunity to provide you with our services for this project. If you have questions regarding this report or if we may be of further assistance, please contact the undersigned.

Sincerely,
KLEINFELDER ENGINEERING, PC

Daniel L. Harpstead, P.E.
President

Enclosures
NRW/WCR:lmc

KLEINFELDER
Bright People. Right Solutions.

PRELIMINARY GEOTECHNICAL ENGINEERING EVALUATION REPORT

THE LIGHTHOUSE AT LONG ISLAND
NASSAU COLISEUM
UNIONDALE, NEW YORK

September 4, 2008

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A Report Prepared for:

LIGHTHOUSE DEVELOPMENT GROUP, LLC
1236 REXCORP PLAZA
UNIONDALE, NEW YORK

THE LIGHTHOUSE AT LONG ISLAND
~~NASSAU COLISEUM~~
UNIONDALE, NEW YORK

Project No. 95908

Prepared by:

Nikki R. Woodward, EIT
Geotechnical Professional

Reviewed by:

Daniel L. Harpstead, P.E.
President

KLEINFELDER ENGINEERING, P.C.
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September 4, 2008

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PLATES

PLATE 1 GENERAL SITE LOCATION PLAN
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APPENDIX A TEST BORING LOGS
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1.0 INTRODUCTION

1.1 GENERAL

Kleinfelder Engineering, PC (Kleinfelder) has completed the authorized preliminary geotechnical engineering evaluation for the preliminary geotechnical evaluation in support of the Lighthouse at Long Island project located at the Nassau Coliseum in Uniondale, New York. The project location can be found on the attached General Site Location Map, Plate 1. This report details our preliminary scope of work consisting of the exploration, sampling and testing of selected materials from 16 test borings advanced across the site.

The preliminary conclusions and recommendations presented in this report are based on the subsurface conditions encountered at the locations of our explorations. Recommendations presented herein should not be extrapolated to other areas or used for other projects.

1.2 PROPOSED SITE DEVELOPMENT

Based on information provided by the Lighthouse Development Group (LHG), we understand this project to consist of the redevelopment of an approximate 85-acre site and will include a state-of-the-art sports arena and sports research complex, hotel, conference center, residential housing, retail and office space, and a plaza with outdoor amphitheater. The proposed site layout, site grading, building loads, and construction materials were not provided or reviewed at the time of this report preparation.

The scope of the exploration and engineering evaluation for this preliminary study, as well as the conclusions and recommendations in this report, were based on our understanding of the project as described above. If pertinent details of the project have changed or otherwise differ from our descriptions, we must be notified and engaged to review the changes and modify our recommendations, if needed.

1.3 PURPOSE AND SCOPE OF SERVICES

The purpose of this geotechnical evaluation was to explore and evaluate the subsurface conditions at the site and to develop preliminary geotechnical engineering recommendations for the design and construction of the proposed redevelopments. The scope of services performed for this geotechnical evaluation consisted of a review of geotechnical and geological information pertaining to the site and vicinity, a subsurface exploration program, laboratory testing of selected soil samples, engineering analysis of the field and laboratory data, and the preparation of a written report presenting the results of our field exploration, laboratory tests and engineering analyses.

1.4 SITE DESCRIPTION

The project is located at the Nassau Coliseum in Uniondale, New York, as depicted on the attached General Site Location Map, Plate 1. The northern portion of the site is currently occupied primarily by asphalt-paved parking area surrounding the existing Coliseum and Marriot Hotel structures. This area is bound by James Doolittle Blvd. to the east, Hempstead Turnpike the south, Earle Ovington Blvd. to the west, and Charles Lindbergh Blvd. to the north. The southern portion of the site is currently vacant property owned by RexCorp, located to the south of Hempstead Turnpike, and bound to the west by Glen Curtis Blvd., Residential housing to the east, and an adjacent vacant property to the south. The site area can be seen on the attached Geotechnical Soil Boring Locations Map, Plate 2.

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1.5 PHYSICAL SETTING

According to a United States Department of Agriculture (USDA) soil survey, the site is directly underlain by soils classified as Urban Land in the area surrounding the existing Coliseum and Hotel structures, and Hempstead Silt Loam in the southwest corner of the existing developed property and in the vacant property located south of Hempstead Turnpike. The Hempstead Silt Loam is characterized by a combination of silt, gravel, and sand. Maps of the surficial geology of the Eastern United States by the United States Geological Survey (USGS) indicate the site to be located within an area of glaciofluvial outwash deposits characterized by sands and gravels.

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2.0 SITE INVESTIGATION

2.1 SUBSURFACE CONDITIONS

Subsurface conditions at the site were explored by 16 test borings. The test borings were pre-cleared to a depth of five feet below ground surface (bgs) to verify the absence of buried utilities and obstructions. The relative densities of the existing upper five feet could not be determined due to pre-clearing. Hollow-stem auger drilling and split-spoon sampling techniques were used from five feet bgs to the extent of the test borings. The subsurface exploration program was performed on between July 30 and August 14, 2008 under the technical supervision of Mr. Mark Gelband of Kleinfelder.

The test borings were performed using a CME-85 truck-mounted drill rig to a depth of approximately 35 feet bgs. The test borings performed on the occupied portion of the site encountered pavement at the ground surface, while the test borings within the vacant property encountered grass or bare ground at the ground surface. The locations of the test borings are shown on Plate 2, Geotechnical Soil Boring Location Map. Descriptions of the soil strata encountered are included in the test boring logs provided in Appendix A. The major soil groups encountered during the field evaluation are described below in the general order of their occurrence.

2.1.1 Existing Fill

Test borings TB1 through TB3, TB-7 through TB-14, and TB-16 encountered between approximately 2½ and 9 feet of fill material directly beneath the ground surface. The existing fill material generally consisted of yellow-brown to brown silty sand with gravel.

2.1.2 Native Soils

Native soil was encountered in the test borings beneath the fill material and/or at ground surface and extended to the limits of test borings. The soils generally consisted of well graded and poorly graded sands and gravels, with some silt, typically medium dense, but ranging in density from very loose to dense.

2.1.3 Rock

Rock was not encountered within the limits of the test borings.

2.1.4 Groundwater

Groundwater was encountered at depths ranging from approximately 23 to 33 feet bgs within the test borings at the time of drilling. Furthermore, depth to groundwater on the Coliseum property ranged from 33 feet bgs on the north side of the property to 28 feet bgs along the south side of the property. Depth to groundwater on the vacant parcel owned by Rexcorp and situated south of the Coliseum ranged from 28 feet to 23 feet bgs. It should be noted that groundwater is known to fluctuate due to local and regional factors including, but not limited to, precipitation events, seasonal changes, and periods of wet and dry weather.

2.2 LABORATORY TESTING

Laboratory testing was performed on select soil samples obtained from the test boring locations. Testing included sieve analyses and natural moisture content determinations. The laboratory results are attached as Appendix B.

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3.0 PRELIMINARY SITE DEVELOPMENT RECOMMENDATIONS

3.1 SITE PREPARATION

Within the building areas and the area of proposed redevelopments, existing vegetation, topsoil, unsuitable fill, debris, trees, and tree roots greater than one-inch in diameter should be removed prior to site development.

3.2 SUBGRADE PREPARATION

Proposed grading including the required cut or fill to achieve the proposed subgrades has not been provided, however, significant layers of fill were encountered in our preliminary investigation of the site. The existing fill deposits may not be suitable for direct support of building subgrades and foundation elements without subgrade improvements under the observation of a representative of the Geotechnical Engineer. Possible subgrade improvements may include methods such as deep dynamic compaction (DDC) or overexcavation and replacement of unsuitable fill materials. The development areas should be stable as determined by a representative of the Geotechnical Engineer prior to construction of structural elements.

3.3 EARTHWORK

Construction site safety is the sole responsibility of the contractor, who shall also be solely responsible for the means, methods and sequencing of construction operations. Excavations should be performed under the direction of the contractor's "Competent Person" as defined by OSHA. The contractor should also be aware that slope height, slope inclination or excavation depths (including utility trench excavations) should in no case exceed those specified in local, state and/or federal safety regulations, such as OSHA Health and Safety Standard for Excavations, or more stringent applicable regulations. Stockpiles should be placed a minimum distance equal to that of the adjacent excavation height, from the edge of excavations and their heights should be controlled so they do not surcharge the sides of the excavation. During construction, the contractor should be responsible for protection of existing on and off site structures from damage due to the new construction.

The soils encountered during our evaluation are generally considered suitable for reuse as load-bearing fill material as defined in Section 3.4. However, reworking of the on-site soils to be used as compacted fill may be required if they are not within the range of acceptable moisture content.

It is possible that unsuitable fill materials will be encountered during site development. The fill may include, but is not limited to, any of the following: fill soils, concrete, bricks, pipes, rebar, stone, asphalt, ash, debris, scrap metal, piping, and wood. Materials encountered that are unsuitable for re-use as backfill or fill should be removed from the site and will likely require disposal at a landfill. Suitable fill material includes brick rubble, concrete rubble, asphalt rubble, gravel, sand, silt, clay, and rock fragments. Excavated materials should be separated into suitable fill material and unsuitable material. Unsuitable material includes all other material encountered in the excavation such as wood, glass, cloth, timbers, pipes, or mechanical equipment. Suitable fill material may be re-used as load-bearing fill, as defined in Section 3.4, below.

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Load-bearing fills placed within the building area should generally have their moisture contents controlled to within three percent of optimum, and load-bearing fills placed outside the building area should generally have their moisture contents controlled to within five percent of optimum. The moisture content of proposed fill material can be greatly influenced by seasonal changes and precipitation events. Depending on the moisture content of the proposed fill material at the time of proposed reuse, wetting or drying of the proposed fill material may be required.

The greatest success in reusing on-site materials as compacted backfill and fill is generally achieved during periods of warm dry weather; however, fill material can be placed during any season provided the moisture content permits adequate workability and compaction. If the moisture contents of the proposed on-site fill materials are too high and the schedule does not allow for drying, import material as defined in Section 3 4 may be used.

If site grading and construction is to be performed during or shortly after the rainy months, the owner and contractors should be fully aware of the potential impact of wet weather. Rain storms can cause delay to construction and damage to previously completed work, such as saturating a compacted pad or subgrade, or flooding an excavation. Runoff can also cause erosion. Surface drainage should be carefully controlled to prevent flow of water into the excavations. The site should be graded to prevent surface water from ponding in construction areas and accumulating in excavations. Earthwork during rainy months will require extra effort and caution by the contractors. The soils may be too wet to compact which will require processing to dry the soil. The grading contractor should be responsible to protect work to avoid damage by rainstorms, including, but not limited to, backfilling excavations the same day, smooth rolling to seal off a pad or subgrade surface to facilitate drainage and to reduce rain damage, and the covering of stockpiles with plastic sheeting.

Ponded water should be pumped out of excavations and subgrade areas immediately. Construction in wet weather, if a possibility for project construction, should be addressed in the project construction bid documents and/or specifications. We recommend the grading contractor submits a wet weather construction plan outlining procedures they will employ to protect their work and to minimize damage to their work by rainstorms.

3.4 LOAD-BEARING FILL

The two types of backfill and fill proposed to support the site features are defined herein as follows:

General Load-Bearing Fill: Used for support of pavements, curbs, sidewalks, and finished site grades outside the building areas. General Load-Bearing Fill should consist of or a combination of GW, GP, GM, GC, SW, SP, SM, SC, CL and ML materials as classified by ASTM D2487. The General Load-Bearing Fill should consist of inorganic and readily compactable site soils, inert rubble or rock fragments. Fragments larger than eight inches (any dimension) should be excluded from General Load-Bearing Fills. The on-site soils encountered in the borings are generally considered suitable for use as General Load-Bearing Fill provided the moisture content and particle sizes are controlled and any unsuitable materials are removed from the existing fills as discussed in Section 3 2. General Load-Bearing Fills should have a moisture content controlled to within five percent of optimum as determined by ASTM D-1557.

Select Load-Bearing Fill: Recommended for fills exclusively in the building area. Select Load-Bearing Fill should consist of inorganic and readily compactable site soils, inert rubble or rock fragments. Fragments larger than four inches (any dimension) should be excluded from Select Load-Bearing Fills. Select Load-Bearing Fill should consist of or a combination of GW, GP, GM, GC, SW, SP, SM, and SC materials as classified by ASTM D2487. The on-site soils encountered

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in the test borings are generally considered suitable for use as Select Load-Bearing Fill provided the moisture content and particle sizes are controlled and any unsuitable materials are removed from the existing fills as discussed in Section 3.2. Select Load-Bearing Fills should have a moisture content controlled to within three percent of optimum as determined by ASTM D-1557.

If imported fills are necessary, imported soils should meet the above requirements based on their intended use, should have less than 30 percent by weight passing a number 200 sieve, and should have a liquid limit below 40 and a plasticity index of 12 or less. Proposed import fill should be approved by the project Geotechnical Engineer prior to delivery to the site.

Load-bearing fills should be placed on a stable, near level subgrade prepared by the removal of weak soil deposits. The load-bearing fills shall be placed in lifts not exceeding a loose thickness of 12 inches, and 8 inches in confined trench and wall backfills.

It is recommended that Select and General Load-Bearing Fills have each lift compacted to at least 95 percent and 90 percent, respectively, of the optimum Modified Proctor dry density as determined by ASTM D-1557. In addition, fills should be stable without significant movement under construction equipment as judged by a representative of the Geotechnical Engineer. Quality control testing of in-place fill densities throughout construction should be performed by a representative of the Geotechnical Engineer. However, conformance with the specifications remains the contractor's responsibility. The contractor should not place backfill or fill material on subgrade surfaces that are muddy, frozen, or contain frost/ice. Frozen soils are not suitable fill sources.

3.5 UTILITIES

Utility excavations should comply with local codes, ordinances and OSHA requirements. Excavation side slopes should be maintained in a safe condition, until completion of backfilling.

The backfilling of utility trenches in the building area must meet the same compaction criteria as the surrounding subgrade soil (i.e. 95 percent of the optimum dry density as determined by the Modified Proctor Test, ASTM D-1557, most recent edition). Since a nuclear density gauge may read the conduit or pipe as a void, visual observations of backfill materials and manual techniques, performed by a representative of the Geotechnical Engineer, should supplement nuclear density testing.

3.6 EARTHQUAKE CONSIDERATIONS

Based on the soil conditions, as estimated by the test borings and our knowledge of geologic conditions in the area of the site, a site class of 'D' is considered appropriate as determined in Table 1613.5.2 of the 2006 International Building Code.

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4.0 PRELIMINARY DESIGN RECOMMENDATIONS

4.1 FOUNDATION DESIGN

Site layout, building design, and structural loadings were not provided for the preparation of this preliminary report. Existing on-site soils that have been proof-rolled and/or new properly compacted Select Load-Bearing Fill, as described in Section 3.4 above, may be used to provide support of the proposed structures. Once structural locations, loads, and finished floor elevation information is available, Kleinfelder should re-evaluate the foundation recommendations with respect to the soils anticipated below the foundation level, to determine if any changes should be made.

Conventional shallow spread footings may be designed with a maximum net allowable soil bearing pressure of 3,000 pounds per square foot (psf). Post-construction total and differential settlements of the conventional shallow spread footings are estimated to be less than 1 inch and ½ inch, respectively.

Column loads resulting in bearing pressures in excess of 3,000 psf can be accommodated by one or more of the following:

- Increased footing size of conventional shallow spread footings
- Subgrade soil improvements, i.e. deep dynamic compaction, etc.
- Deep foundations, i.e. caissons or piles

During construction, footing excavations should be observed by a representative of the Geotechnical Engineer to evaluate the suitability and supporting capabilities of the bearing materials. The representative of the Geotechnical Engineer should "probe" the foundation subgrade with a manually operated soil-probe to identify potential loose or soft zones. If unsuitable bearing conditions are encountered, the area should be over-excavated, and backfilled with compacted, select load-bearing fill at the recommendation of a representative of the geotechnical engineer.

4.2 SLABS-ON-GRADE

Slabs-on-grade may be supported by suitable approved proof-rolled soils or properly compacted select load-bearing fills. The slab-on-grade should be designed and constructed in accordance with the recommendations of ACI Committee Reports 360R-92 and 302.1 R-96. Concrete floor slabs are recommended to be simply supported at wall junctures to allow unrestricted rotation of the slab's edges. Control joints should be used to control shrinkage cracks. Based on the subgrade preparation procedures recommended herein, a modulus of subgrade (k) of 175 pounds per cubic inch (pci) is estimated for slab design.

Conventional ground floor slab design should include a vapor retarder located immediately below the slab and at least six inches of free draining granular material below the vapor retarder as a capillary break. If the materials underlying the vapor retarder contain sharp or angular particles, a geotextile fabric should be provided to protect the vapor retarder from puncture.

Portions of the floor slabs may not be subjected to building heat during freezing weather and may be susceptible to frost heave. The soils beneath these slabs should consist of a non-frost susceptible, free-draining granular material for a minimum one-foot of depth. The soil should contain drainage provisions to ensure that surface water is not trapped.

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4.3 MOISTURE VAPOR TRANSMISSION

Subsurface moisture and moisture vapor naturally migrate upward through the soil and, where the soil is covered by a building or pavement, this subsurface moisture will collect. To reduce the impact of the subsurface moisture and potential impact of future introduced moisture (such as landscape irrigation or precipitation) the current industry standard is to place a vapor retarder on the free draining granular layer. This membrane typically consists of visqueen or polyvinyl plastic sheeting of at least 10 mil in thickness. It should be noted that although vapor barrier systems are currently the industry standard, this system may not be completely effective in preventing floor slab moisture problems. These systems typically will not necessarily assure that floor slab moisture transmission rates will meet floor-covering manufacturer standards and that indoor humidity levels will be appropriate to inhibit mold growth. The design and construction of such systems are totally dependent on the proposed use and design of the building and all elements of building design and function should be considered in the slab-on-grade floor design. Building design and construction have a greater role in perceived moisture problems since sealed buildings/rooms or inadequate ventilation may produce excessive moisture in a building and affect indoor air quality.

Various factors such as surface grades, adjacent planters, the quality of slab concrete and the permeability of the on-site soils affect slab moisture and can control future performance. In many cases, floor moisture problems are the result of either improper curing of floor slabs or improper application of flooring adhesives. We recommend contacting a flooring consultant experienced in the area of concrete slab-on-grade floors for specific recommendations regarding your proposed flooring applications.

Special precautions must be taken during the placement and curing of all concrete slabs. Excessive slump (high water-cement ratio) of the concrete and/or improper curing procedures used during either hot or cold weather conditions could lead to excessive shrinkage, cracking, or curling of the slabs. High water-cement ratio and/or improper curing also greatly increase the water vapor permeability of concrete. We recommend that all concrete placement and curing operations be performed in accordance with the American Concrete Institute (ACI) manual.

It is emphasized that we are not floor moisture proofing experts. We make no guarantee nor provide any assurance that use of a capillary break/vapor retarder system will reduce concrete slab-on-grade floor moisture penetration to any specific rate or level, particularly those required by floor covering manufacturers. The builder and designers should consider all available measures for floor slab moisture protection

4.4 GROUNDWATER MANAGEMENT

At the time of drilling, Groundwater was encountered in the test borings at depths ranging from approximately 23 to 33 feet bgs. It should be noted that water level readings obtained during our evaluation provide a "snapshot" of water conditions at that time. Groundwater is known to fluctuate due to local and regional factors including, but not limited to, precipitation events, seasonal changes, and periods of wet or dry weather.

Dewatering of shallower excavations may be required due to infiltrating surface water or pockets of "trapped" water. During construction, surface water may infiltrate along more permeable sand seams and act as perched groundwater above soils with a higher silt and clay content. To reduce the need for dewatering, the site should be graded to prevent surface water from ponding in construction areas and accumulating in excavations.

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4.5 PAVEMENT AREAS

Pavement should be placed on stone subbase above approved subgrade materials as described in Section 3.2 of this report. For design of flexible concrete pavement sections a subgrade modulus of 175 pci and a CBR value of 8 are recommended, based on the properties of the existing soils as encountered in our exploration. Higher design values for subgrade modulus and CBR may be achieved with subgrade improvements and/or earthwork of existing fill or native soils, as noted in Section 3.2 and 3.3 of this report.

4.6 FURTHER GEOTECHNICAL EVALUATION

We recommend that additional geotechnical investigation be completed once structural designs, locations, and loads are determined for the proposed site redevelopment. Additional subsurface exploration within the proposed building footprints will provide a more accurate representation of the subsurface for each structure. Specific foundation design recommendations will also be dependent on the structural loading conditions. Further investigation may include test borings and test pits, laboratory analysis of select soil samples, and design calculations based on proposed loads and existing site conditions. The information contained in this report should only be used as a general overview of the entire site, and should not be exclusively used in final design.

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5.0 LIMITATIONS

Preliminary recommendations contained in this report are based on our field observations and subsurface explorations, laboratory tests, and our present knowledge of the proposed development. It is possible that soil and groundwater conditions could vary between or beyond the points explored. If soil or groundwater conditions are encountered during construction that differ from those described herein, we should be notified immediately so a review may be made and any supplemental recommendations provided. When the proposed structures, loads, and locations are provided, our preliminary recommendations should be reviewed.

We have prepared this preliminary report in accordance with generally accepted geotechnical engineering practices. No warranty, either expressed or implied, is made. The preliminary recommendations provided in this report are based on the assumption that an adequate program of tests and observations will be conducted by Kleinfelder once the proposed structures, loads, and locations are provided, and also during the construction phase, in order to evaluate compliance with our recommendations. Other standards or documents referenced in any given standard cited in this report, or otherwise relied upon by the author of this report, are only mentioned in the given standard; they are not incorporated into it or "included by reference," as that latter term is used relative to contracts or other matters of law

This preliminary report may be used only by the Lighthouse Development Group, LLC (the Client) and only for the purposes stated within a reasonable time from its issuance, but in no event later than one year from the date of the report. Land or facility use, on and off-site conditions, regulations, or other factors may change over time, and additional work may be required with the passage of time. Based on the intended use of the report, Kleinfelder may recommend that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the Client or other parties will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party and the Client agrees to defend, indemnify and hold harmless Kleinfelder from any claim or liability associated with such unauthorized use or non-compliance.

The scope of work for this subsurface exploration and preliminary geotechnical evaluation report did not include environmental assessments or evaluations regarding the presence or absence of wetlands or hazardous substances in the soil, surface water, or groundwater at this site.

Kleinfelder Engineering, PC (Kleinfelder) has conducted subsurface exploration and provided preliminary recommendations for this project. We recommend that Kleinfelder be given the opportunity to provide further recommendations and final design for this project, if required. In the event Kleinfelder is not, at a minimum, retained to review the final project plans and specifications to evaluate if our recommendations have been properly interpreted, we will assume no responsibility for misinterpretation of our recommendations.

We recommend that all earthwork during construction be monitored by a representative from Kleinfelder, including site preparation, installation of foundation elements, and placement of structural fill and/or backfill. The purpose of these services would be to provide Kleinfelder the opportunity to observe the actual soil conditions encountered during construction, evaluate the applicability of the recommendations presented in this report to the soil conditions encountered, and recommend appropriate changes in design or construction procedures if conditions differ from those described herein.

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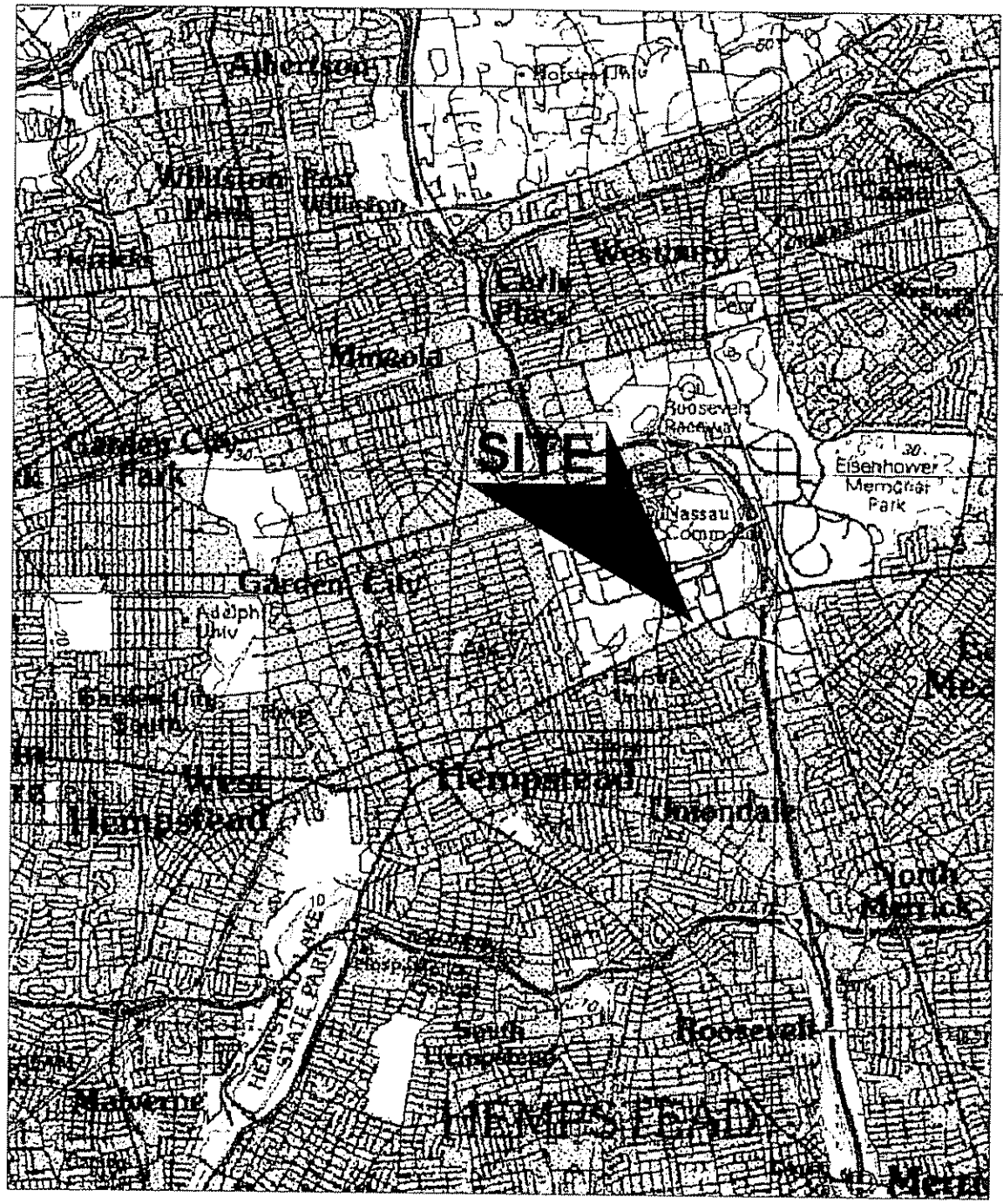
PLATES



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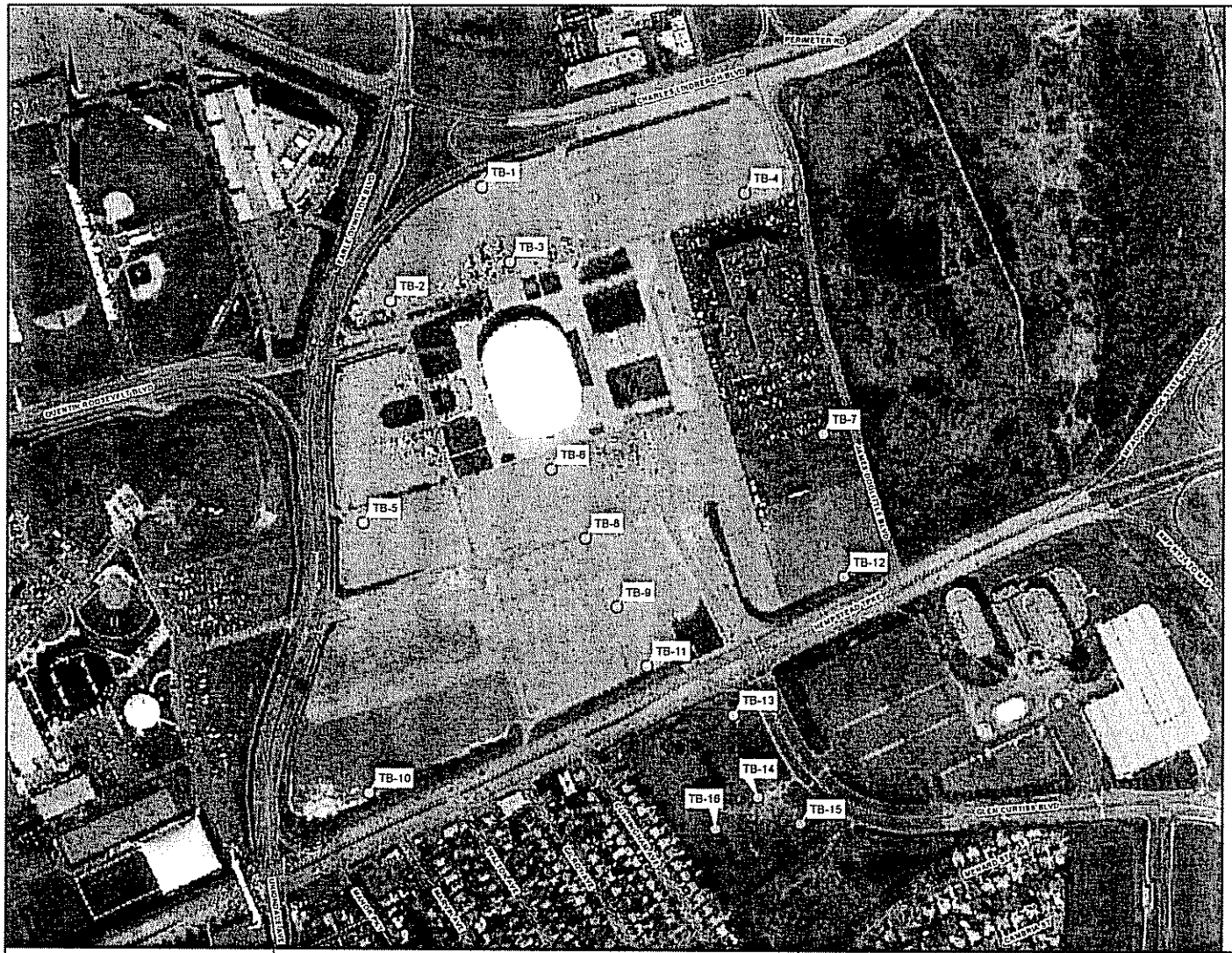
GENERAL SITE LOCATION PLAN

THE LIGHTHOUSE AT LONG ISLAND
NASSAU COLISEUM
UNIONDALE, NY

DRAWN BY:	NRW
REVISED BY:	NRW
CHECKED BY:	DLH
PLATE	1

DRAWN: 8/29/08

PROJECT NO. 95908



LEGEND

GEOTECHNICAL SOIL BORING LOCATION

0 200 400 800

APPROXIMATE SCALE (feet)

1 INCH EQUALS 400 FEET

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NOTE

1. GEOTECHNICAL SOIL BORING TB-5 WAS INACCESSIBLE AND THEREFORE WAS NOT GPS SURVEYED ON AUGUST 8, 2008. LOCATION IS APPROXIMATE AND BASED ON FIELD MEASUREMENTS.
2. SOIL BORINGS AND MONITORING WELL LOCATIONS BASED ON GPS MEASUREMENTS (LATITUDE/LONGITUDE)

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DRAWN:	08/26/2008
DRAWN BY:	J.R
CHECKED BY:	R.S
FILE NAME:	LIGHTHOUSE

GEOTECHNICAL SOIL BORING LOCATION MAP

THE LIGHTHOUSE AT LONG ISLAND
NASSAU COLISEUM
UNIONDALE, NEW YORK

PLATE 2

G:\LIGHTHOUSE REDEVELOPMENT\PROJECT\AUGUST\FIGURE 1 GEOTECHNICAL SOIL BORING LOCATIONS 8-26-08

APPENDIX A

TEST BORING LOGS

Location:	Nassau Coliseum, Uniondale, NY			Date Started:	8/14/2008
Groundwater (ft):	Initial (▽): 33.0 feet while drilling.			Date Completed:	8/14/2008
Drilling Company:	ADT	Equipment:	CME-85	Logged By:	Mark Gelband
Hole Diameter (in):	3.25	Drilling Method:	HSA		
Hammer Type:	Automatic			Total Depth (ft):	35.0

Elevation (feet)	Depth (feet)	Graphical Log	DESCRIPTION	FIELD: Sample Interval	FIELD: Blow Counts per 6" Interval	FIELD: Sample Type	LABORATORY: Moisture Content (%)	LABORATORY: Liquid Limit	LABORATORY: Plasticity Index	LABORATORY: Passing #200 Sieve (%)	Additional Remarks
			Appx. Surface Elevation (ft): Not Provided Surface Condition: Pavement								
			FILL: Poorly graded SAND w/silt and gravel (SP-SM), brown to yellow-brown, moist		Pre-cleared	GRAB					
					Pre-cleared	GRAB					
	5				14 13 11 12	SPT					Recovery = 22"
			Silty SAND w/gravel (SM), orange-brown, moist, dense		31 17 15 14	SPT	3			24	Recovery = 20"
	10		Well graded SAND w/gravel (SW), orange-brown, moist, med dense		18 14 13 15	SPT					Recovery = 13"
	15				6 11 11 13	SPT					Recovery = 19"
	20		Well graded GRAVEL w/sand (GW), light brown to brown, moist, med dense		13 15 13 18	SPT					Recovery = 20"
	25		Poorly graded SAND (SP), brown, moist to wet, med dense		22 12 9 9	SPT					Recovery = 24"
	30		▽		24 12 16 18	SPT					Recovery = 24"
	35		Boring Terminated at 35.0 ft.		5 9 10 7	SPT					

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Date:	August 21	95908

BORING LOG

The Lighthouse at Long Island

BORING

TB- 1

Sheet 1 of 1

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Location:	Nassau Coliseum, Uniondale, NY			Date Started:	8/14/2008
Groundwater (ft):	Initial (▽): 33.0 feet while drilling.			Date Completed:	8/14/2008
Drilling Company:	ADT	Equipment:	CME-85	Logged By:	Mark Gelband
Hole Diameter (in):	3.25	Drilling Method:	HSA		
Hammer Type:	Automatic			Total Depth (ft):	35.0

Elevation (feet)	Depth (feet)	Graphical Log	DESCRIPTION	FIELD: Sample Interval	FIELD: Blow Counts per 6" Interval	FIELD: Sample Type	LABORATORY: Moisture Content (%)	LABORATORY: Liquid Limit	LABORATORY: Plasticity Index	LABORATORY: Passing #200 Sieve (%)	Additional Remarks
			Appx Surface Elevation (ft): Not Provided Surface Condition: Pavement								
			FILL: Poorly graded SAND w/gravel (SP-SM), brown to yellow-brown, moist		Pre-cleared	GRAB					
					Pre-cleared	GRAB					
	5		Well graded GRAVEL w/sand (GW), brown, moist, med. dense		14 8 7 9	SPT				4	Recovery = 20"
			Well graded SAND w/gravel (SW), orange-brown to brown, moist, dense to med. dense		15 18 12 14	SPT					Recovery = 18"
	10				11 9 7 10	SPT					Recovery = 24"
	15				6 8 9 11	SPT					Recovery = 20"
	20				11 12 13 13	SPT					Recovery = 18"
	25		Well graded GRAVEL w/sand (GW), light brown, moist, med dense		8 7 9 11	SPT					Recovery = 24"
	30		Poorly graded SAND w/silt (SP-SM), orange-brown, moist, med. dense		12 13 20 17	SPT					Recovery = 19
			Poorly graded SAND w/ gravel (SP), brown, wet, loose		4 3 5 7	SPT					Recovery = 19"
	35		Boring Terminated at 35 0 ft.								

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BORING LOG

The Lighthouse at Long Island

BORING

TB- 2

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Location:	Nassau Coliseum, Uniondale, NY			Date Started:	8/14/2008
Groundwater (ft):	Initial (▽): 33.0 feet while drilling.			Date Completed:	8/14/2008
Drilling Company:	ADT	Equipment:	CME-85	Logged By:	Mark Gelband
Hole Diameter (in):	3.25	Drilling Method:	HSA		
Hammer Type:	Automatic			Total Depth (ft):	35.0

Elevation (feet)	Depth (feet)	Graphical Log	DESCRIPTION	FIELD: Sample Interval	FIELD: Blow Counts per 6" Interval	FIELD: Sample Type	LABORATORY: Moisture Content (%)	LABORATORY: Liquid Limit	LABORATORY: Plasticity Index	LABORATORY: Passing #200 Sieve (%)	Additional Remarks
			Appx Surface Elevation (ft): Not Provided Surface Condition: Pavement								
			FILL: Silty SAND w/gravel (SM), dark brown to yellow-brown, moist		Pre-cleared	GRAB					
					Pre-cleared	GRAB					
	5		Well graded SAND w/gravel (SW), brown, moist, med dense		12 8 9 11	SPT					Recovery = 18"
			Poorly graded SAND w/gravel (SP), brown, moist, med dense to dense		8 7 5 5	SPT					Recovery = 23"
	10				20 15 14 14	SPT					Recovery = 20"
	15				13 15 17 14	SPT					Recovery = 15"
			Well graded SAND w/gravel (SW), black to brown, moist, med dense, fine gravel		48 11 14 17	SPT					Recovery = 16"
	20										
	25		Poorly graded GRAVEL w/sand (GP), brown, moist, med dense		23 10 10 13	SPT					Recovery = 17"
			Poorly graded SAND (SP), brown, moist, med dense		19 10 10 15	SPT					Recovery = 20"
	30	▽									
			Well graded SAND w/gravel (SW), brown, wet, med dense		WOH 7 6 9	SPT					Recovery = 24"
	35		Boring Terminated at 35.0 ft.								

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BORING LOG

The Lighthouse at Long Island

BORING

TB- 3

Sheet 1 of 1

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Location:	Nassau Coliseum, Uniondale, NY			Date Started:	8/14/2008
Groundwater (ft):	Initial (▽): 28.0 feet while drilling.			Date Completed:	8/14/2008
Drilling Company:	ADT	Equipment:	CME-85	Logged By:	Mark Gelband
Hole Diameter (in):	3.25	Drilling Method:	HSA		
Hammer Type:	Automatic			Total Depth (ft):	35.0

Elevation (feet)	Depth (feet)	Graphical Log	DESCRIPTION	FIELD: Sample interval	FIELD: Blow Counts per 6" Interval	FIELD: Sample Type	LABORATORY: Moisture Content (%)	LABORATORY: Liquid Limit	LABORATORY: Plasticity Index	LABORATORY: Passing #200 Sieve (%)	Additional Remarks
			Appx Surface Elevation (ft): Not Provided Surface Condition: Pavement								
			Well graded SAND w/silt and gravel (SW-SM). light brown. moist		Pre-cleared	GRAB					
					Pre-cleared	GRAB					
	5		Poorly graded SAND (SP). brown. moist. med dense		15 12 11 13	SPT					Recovery = 23"
			Poorly graded SAND w/gravel (SP). orange-brown. moist. dense		17 18 16 17	SPT					Recovery = 24"
	10				21 17 17 17	SPT					Recovery = 18"
	15		Well graded SAND w/gravel (SW). brown, moist. med dense		23 11 15 22	SPT					Recovery = 17"
	20		Well graded GRAVEL w/sand (GW), brown. moist. dense		25 27 23 21	SPT					Recovery = 20"
	25		Well graded SAND w/gravel (SW). brown. moist to wet. med dense		11 11 14 12	SPT					Recovery = 15"
	30	▽			9 7 5 6	SPT					Recovery = 16"
	35		Well graded GRAVEL w/sand (GW). brown. wet. loose		WOH 3 4 5	SPT					
			Boring Terminated at 35 0 ft.								

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Date:	August 21	95908	

BORING LOG

The Lighthouse at Long Island

BORING

TB- 4

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Location:	Nassau Coliseum, Uniondale, NY			Date Started:	8/13/2008
Groundwater (ft):	Initial (▽): 28.0 feet while drilling.			Date Completed:	8/13/2008
Drilling Company:	ADT	Equipment:	CME-85	Logged By:	Mark Gelband
Hole Diameter (in):	3.25	Drilling Method:	HSA		
Hammer Type:	Automatic			Total Depth (ft):	35.0

Appx Surface Elevation (ft): Not Provided
Surface Condition: Pavement

Elevation (feet)	Depth (feet)	Graphical Log	DESCRIPTION	FIELD: Sample Interval	FIELD: Blow Counts per 6" Interval	FIELD: Sample Type	LABORATORY: Moisture Content (%)	LABORATORY: Liquid Limit	LABORATORY: Plasticity Index	LABORATORY: Passing #200 Sieve (%)	Additional Remarks
			Well graded SAND w/gravel (SW). brown, moist, very loose		Pre-cleared	GRAB					
	5				Pre-cleared	GRAB					
					1 1 2 4	SPT					Recovery = 5"
			Poorly graded SAND w/gravel (SP). brown, moist, med. dense		5 8 8 9	SPT					Recovery = 18"
	10				11 11 9 11	SPT					Recovery = 24"
					5 8 10 14	SPT					Recovery = 14"
	15										
			Poorly graded GRAVEL w/sand (GP). light brown, moist, med dense		8 6 6 6	SPT					Recovery = 15"
	20										
					11 13 10 17	SPT					Recovery = 18"
	25		Poorly graded SAND w/gravel (SP), brown, moist to wet, med dense								
			▽		24 9 10 12	SPT					Recovery = 22"
	30										
					WOH 5 7 8	SPT					Recovery = 21"
	35		Boring Terminated at 35 0 ft.								

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Date:	August 21	95908	

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Location:	Nassau Coliseum, Uniondale, NY			Date Started:	8/13/2008
Groundwater (ft):	Initial (▽): 28.0 feet while drilling.			Date Completed:	8/13/2008
Drilling Company:	ADT	Equipment:	CME-85	Logged By:	Mark Gelband
Hole Diameter (in):	3.25	Drilling Method:	HSA		
Hammer Type:	Automatic			Total Depth (ft):	35.0

Elevation (feet)	Depth (feet)	Graphical Log	DESCRIPTION	Sample Interval	FIELD: Blow Counts per 6" Interval	FIELD: Sample Type	LABORATORY: Moisture Content (%)	LABORATORY: Liquid Limit	LABORATORY: Plasticity Index	LABORATORY: Passing #200 Sieve (%)	Additional Remarks
			Appx. Surface Elevation (ft): Not Provided Surface Condition: Pavement								
			Silty GRAVEL w/sand (GM), brown, moist		Pre-cleared	GRAB					
			Poorly graded SAND w/gravel (SP), brown to light brown, moist to wet, med dense to dense		Pre-cleared	GRAB	3			16	
	5				6 18 11 14	SPT					Recovery = 20"
					20 24 20 7	SPT					Recovery = 18"
	10				13 23 14 17	SPT					Recovery = 13"
					14 8 10 11	SPT					Recovery = 15"
	15										
					26 16 17 20	SPT					Recovery = 20"
	20										
					15 8 9 4	SPT					Recovery = 24"
	25		▽								
					8 10 12 15	SPT					Recovery = 22"
	30										
					WOH 5 8 8	SPT					Recovery = 23"
	35		Boring Terminated at 35.0 ft.								

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Drafted By: NRW	Project Number:		
Date: August 21	95908		Sheet 1 of 1

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Location:	Nassau Coliseum, Uniondale, NY			Date Started:	7/31/2008
Groundwater (ft):	Initial (▽): 28.0 feet while drilling.			Date Completed:	7/31/2008
Drilling Company:	ADT	Equipment:	CME-85	Logged By:	Mark Gelband
Hole Diameter (in):	3.25	Drilling Method:	HSA		
Hammer Type:	Automatic			Total Depth (ft):	35.0

Elevation (feet)	Depth (feet)	Graphical Log	DESCRIPTION	FIELD: Sample Interval	FIELD: Blow Counts per 6" Interval	FIELD: Sample Type	LABORATORY: Moisture Content (%)	LABORATORY: Liquid Limit	LABORATORY: Plasticity Index	LABORATORY: Passing #200 Sieve (%)	LABORATORY: Additional Remarks
			Appx Surface Elevation (ft): Not Provided Surface Condition: Pavement								
			FILL: Silty SAND w/gravel (SM). dark brown to brown. moist, loose		Pre-cleared	GRAB					
					Pre-cleared	GRAB					
	5				4 2 3 2	SPT	5			30	Recovery = 7"
			Well graded SAND w/gravel (SW), brown, moist, med dense to very dense		4 8 9 11	SPT					Recovery = 21"
	10				3 9 11 15	SPT					Recovery = 16"
					25 44 24 22	SPT					Recovery = 20"
	15										
			Poorly graded SAND w/gravel (SP). light brown. moist. med dense		30 11 12 10	SPT					Recovery = 12"
	20										
					6 8 8 12	SPT					Recovery = 12"
	25		▽								
			Well graded SAND w/silt and gravel (SW-SM), light brown. wet. med dense		5 7 7 9	SPT					Recovery = 20"
	30										
					8 6 6 7	SPT					Recovery = 18"
	35		Boring Terminated at 35 0 ft								

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Drafted By: NRW	Project Number:		Sheet 1 of 1
Date: August 21	95908		

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Location:	Nassau Coliseum, Uniondale, NY			Date Started:	8/13/2008
Groundwater (ft):	Initial (▽): 28.0 feet while drilling.			Date Completed:	8/13/2008
Drilling Company:	ADT	Equipment:	CME-85	Logged By:	Mark Gelband
Hole Diameter (in):	3.25	Drilling Method:	HSA		
Hammer Type:	Automatic			Total Depth (ft):	35.0

Appx Surface Elevation (ft): Not Provided
Surface Condition: Pavement

Elevation (feet)	Depth (feet)	Graphical Log	DESCRIPTION	FIELD: Sample Interval	FIELD: Blow Counts per 6" Interval	FIELD: Sample Type	LABORATORY: Moisture Content (%)	LABORATORY: Liquid Limit	LABORATORY: Plasticity Index	LABORATORY: Passing #200 Sieve (%)	Additional Remarks
			FILL: Silty SAND w/gravel (SM), light gray-brown, moist		Pre-cleared	GRAB					
	5		Well graded SAND w/gravel (SW), orange-brown to light brown, moist, med dense to dense		Pre-cleared	GRAB					
					10 9 10 12	SPT					Recovery = 12"
					14 20 28 27	SPT					Recovery = 20"
	10				15 20 18 16	SPT					Recovery = 16"
					7 8 8 12	SPT					Recovery = 17"
	15										
					27 14 15 13	SPT					Recovery = 20"
	20										
			Poorly graded SAND w/gravel (SP), brown, moist to wet, med dense		12 12 14 18	SPT					Recovery = 16"
	25		▽								
					6 6 7 12	SPT					
	30										
					4 8 8 8	SPT					Recovery = 22"
	35		Boring Terminated at 35.0 ft.								

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KLEINFELDER		**BORING LOG** The Lighthouse at Long Island	BORING TB- 8
Drafted By:	NRW	Project Number:	Sheet 1 of 1
Date:	August 21	95908	

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Location:	Nassau Coliseum, Uniondale, NY			Date Started:	8/12/2008
Groundwater (ft):	Initial (▽): 28.0 feet while drilling.			Date Completed:	8/12/2008
Drilling Company:	ADT	Equipment:	CME-85	Logged By:	Mark Gelband
Hole Diameter (in):	3.25	Drilling Method:	HSA		
Hammer Type:	Automatic			Total Depth (ft):	35.0

Appx Surface Elevation (ft): Not Provided
Surface Condition: Pavement

Elevation (feet)	Depth (feet)	Graphical Log	DESCRIPTION	FIELD: Sample Interval	FIELD: Blow Counts per 6" Interval	FIELD: Sample Type	LABORATORY: Moisture Content (%)	LABORATORY: Liquid Limit	LABORATORY: Plasticity Index	LABORATORY: Passing #200 Sieve (%)	Additional Remarks
			FILL: Silty SAND w/gravel (SM), brown to gray-brown, moist, med dense		Pre-cleared	GRAB					
					Pre-cleared	GRAB					
	5				10 7 6 12	SPT	3			23	Recovery = 12"
					4 12 15 18	SPT					Recovery = 14"
	10		Well graded SAND w/gravel (SW), brown to black-brown, moist, med dense		4 8 11 12	SPT					Recovery = 18"
	15				7 12 12 11	SPT					Recovery = 18"
	20		Well graded GRAVEL w/sand (GW), brown, moist, dense		20 13 25 60	SPT					Recovery = 13"
	25		Poorly graded SAND w/gravel (SP), brown, moist to wet, med dense		8 9 9 11	SPT					Recovery = 14"
	30	▽			4 9 13 13	SPT					Recovery = 17"
	35				5 10 15 24	SPT					Recovery = 24"

Boring Terminated at 35.0 ft.

KLEINFELDER

Drafted By:	NRW	Project Number:	95908
Date:	August 21		

BORING LOG

The Lighthouse at Long Island

BORING

TB- 9

Sheet 1 of 1

DENVER_GEO 95908 BORING LOGS.GPJ slawless@kleinfelder.com 8/29/2008

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Location:	Nassau Coliseum, Uniondale, NY			Date Started:	8/12/2008
Groundwater (ft):	Initial (▽): 28.0 feet while drilling.			Date Completed:	8/12/2008
Drilling Company:	ADT	Equipment:	CME-85	Logged By:	Mark Gelband
Hole Diameter (in):	3.25	Drilling Method:	HSA		
Hammer Type:	Automatic			Total Depth (ft):	35.0

Elevation (feet)	Depth (feet)	Graphical Log	DESCRIPTION	FIELD: Sample Interval	FIELD: Blow Counts per 6" Interval	FIELD: Sample Type	LABORATORY: Moisture Content (%)	LABORATORY: Liquid Limit	LABORATORY: Plasticity Index	LABORATORY: Passing #200 Sieve (%)	Additional Remarks
			Appx Surface Elevation (ft): Not Provided Surface Condition: Pavement								
			FILL: Silty SAND w/gravel (SM). yellow-brown. moist		Pre-cleared	GRAB					
					Pre-cleared	GRAB					
	5		Poorly graded SAND w/gravel (SP). orange-brown. moist, loose		6 3 5 13	SPT	2			32	Recovery = 15"
			Well graded SAND w/gravel (SW). orange-brown, moist. med dense		13 11 12 17	SPT					Recovery = 20"
	10		Poorly graded SAND w/gravel (SP). orange-brown. moist. med dense		8 8 10 11	SPT					Recovery = 22"
			Well graded SAND w/gravel (SW). orange-brown to brown. moist, med dense		11 9 10 11	SPT					Recovery = 17"
	15										
					5 8 14 22	SPT					Recovery = 15"
	20										
			Poorly graded SAND w/gravel (SP). light brown. moist. med dense		8 5 6 7	SPT					Recovery = 13"
	25										
▽			Poorly graded GRAVEL w/sand. brown. wet. loose		4 5 4 10	SPT					Recovery = 13"
	30										
			Well graded SAND w/gravel (SW), light brown. wet. med dense		16 6 7 9	SPT					Recovery = 23"
	35		Boring Terminated at 35 0 ft								

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Drafted By: NRW
Date: August 21
Project Number: 95908

BORING LOG

The Lighthouse at Long Island

BORING

TB-10

Sheet 1 of 1

DENVER_GEO 95908 BORING LOGS.GPJ slawless@kleinfelder.com 8/29/2008

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Location:	Nassau Coliseum, Uniondale, NY			Date Started:	8/12/2008
Groundwater (ft):	Initial (▽): 28.0 feet while drilling.			Date Completed:	8/12/2008
Drilling Company:	ADT	Equipment:	CME-85	Logged By:	Mark Gelband
Hole Diameter (in):	3.25	Drilling Method:	HSA		
Hammer Type:	Automatic			Total Depth (ft):	35.0

Elevation (feet)	Depth (feet)	Graphical Log	DESCRIPTION	FIELD: Sample Interval	FIELD: Blow Counts per 6" Interval	FIELD: Sample Type	LABORATORY: Moisture Content (%)	LABORATORY: Liquid Limit	LABORATORY: Plasticity Index	LABORATORY: Passing #200 Sieve (%)	Additional Remarks
			Appx. Surface Elevation (ft): Not Provided Surface Condition: Pavement								
			FILL: Silty SAND w/gravel (SM), brown to light brown, moist		Pre-cleared	GRAB					
					Pre-cleared	GRAB					
	5		Well graded SAND w/gravel (SW), orange-brown to brown, moist, med dense to dense		7 4 14 17	SPT					Recovery = 14"
					15 20 20 18	SPT					Recovery = 20"
	10				12 13 11 12	SPT					Recovery = 24"
	15				23 14 15 14	SPT					Recovery = 14"
	20		Well graded GRAVEL w/sand (GW), light brown, moist, dense		12 14 16 15	SPT					Recovery = 14"
	25		Well graded SAND w/gravel (SW), brown, moist, med dense		11 10 12 11	SPT					Recovery = 18"
		▽									
	30		Well graded GRAVEL w/sand (GW), brown, wet, med dense to loose		12 8 8 9	SPT					Recovery = 16"
					3 4 5 5	SPT					
	35		Boring Terminated at 35.0 ft.								

KLEINFELDER		**BORING LOG** The Lighthouse at Long Island	**BORING** TB-11
Drafted By: NRW	Project Number:		Sheet 1 of 1
Date: August 21	95908		

DENVER_GEO 95908 BORING LOGS.GPJ siewloss@kleinfelder.com 8/29/2008

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Location:	Nassau Coliseum, Uniondale, NY			Date Started:	7/31/2008
Groundwater (ft):	Initial (▽): 28.0 feet while drilling.			Date Completed:	7/31/2008
Drilling Company:	ADT	Equipment:	CME-85	Logged By:	Mark Gelband
Hole Diameter (in):	3.25	Drilling Method:	HSA		
Hammer Type:	Automatic			Total Depth (ft):	35.0

Elevation (feet)	Depth (feet)	Graphical Log	DESCRIPTION	FIELD: Sample Interval	FIELD: Blow Counts per 6" Interval	FIELD: Sample Type	LABORATORY: Moisture Content (%)	LABORATORY: Liquid Limit	LABORATORY: Plasticity Index	LABORATORY: Passing #200 Sieve (%)	Additional Remarks
			Appx Surface Elevation (ft): Not Provided Surface Condition: Grass								
			FILL: Topsoil and Silty SAND w/gravel (SM). dark brown to light brown. moist		Pre-cleared	GRAB					
					Pre-cleared	GRAB					
	5		Poorly graded SAND w/ gravel (SP). brown. moist. loose		12 5 4 3	SPT					Recovery = 8"
			Poorly graded SAND w/silt (SP-SM). orange-brown. moist. loose		4 6 4 7	SPT					Recovery = 14"
	10		Poorly graded SAND w/gravel (SP). orange-brown. moist. dense		7 14 17 14	SPT					Recovery = 14"
	15		Well graded SAND w/gravel (SW). brown. moist. med dense		30 4 10 20	SPT					Recovery = 21"
	20		Poorly graded SAND w/gravel (SP). brown to light brown. moist to wet. med dense		7 9 10 10	SPT					Recovery = 14"
					17 12 13 14	SPT					Recovery = 21"
	25	▽			7 8 8 12	SPT					Recovery = 24"
	30										
			Well graded SAND w/gravel (SW), light brown. wet. loose		7 5 5 7	SPT					Recovery = 24"
	35		Boring Terminated at 35 0 ft								

DENVER_GEO 95908 BORING LOGS.GPJ slawless@kleinfelder.com 8/29/2008

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Drafted By:	NRW	Project Number:	95908
Date:	August 21		

BORING LOG

The Lighthouse at Long Island

BORING

TB-12

Sheet 1 of 1

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Location:	Nassau Coliseum, Uniondale, NY			Date Started:	7/30/2008
Groundwater (ft):	Initial (▽): 28.0 feet while drilling.			Date Completed:	7/30/2008
Drilling Company:	ADT	Equipment:	CME-85	Logged By:	Mark Gelband
Hole Diameter (in):	3.25	Drilling Method:	HSA		
Hammer Type:	Automatic			Total Depth (ft):	35.0

Elevation (feet)	Depth (feet)	Graphical Log	DESCRIPTION	FIELD: Sample Interval	FIELD: Blow Counts per 6" Interval	FIELD: Sample Type	LABORATORY: Moisture Content (%)	LABORATORY: Liquid Limit	LABORATORY: Plasticity Index	LABORATORY: Passing #200 Sieve (%)	Additional Remarks
			Appx Surface Elevation (ft): Not Provided Surface Condition: Bare Earth								
			FILL: Poorly graded SAND w/silt and gravel (SP-SM). brown. moist		Pre-cleared	GRAB					
			FILL: Sandy SILT w/gravel (ML), yellow-gray, moist		Pre-cleared	GRAB					
	5		Well graded SAND w/silt and gravel (SW-SM). brown. moist. very loose		1 1 1 7	SPT					Recovery = 6"
			Poorly graded SAND w/gravel (SP). brown to orange-brown. moist. med dense to dense		8 9 9 12	SPT	4			1	Recovery = 19"
	10				1 23 9 13	SPT					Recovery = 16"
					18 11 15 19	SPT					Recovery = 15"
	15										
	20		Well graded GRAVEL w/sand (GW). brown. moist. dense		19 18 18 19	SPT					Recovery = 8"
			Well graded SAND w/gravel (SW). orange-brown to brown. moist to wet, med dense		23 7 9 11	SPT					Recovery = 13"
	25	▽									
					8 8 10 9	SPT					Recovery = 2"
	30										
					20 6 8 7	SPT					Recovery = 22"
	35		Boring Terminated at 35 0 ft.								

KLEINFELDER	**BORING LOG** The Lighthouse at Long Island		**BORING** TB-13
Drafted By: NRW Date: August 21	Project Number: 95908		Sheet 1 of 1

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Location:	Nassau Coliseum, Uniondale, NY			Date Started:	7/31/2008
Groundwater (ft):	Initial (▽): 23.0 feet while drilling.			Date Completed:	7/31/2008
Drilling Company:	ADT	Equipment:	CME-85	Logged By:	Mark Gelband
Hole Diameter (in):	3.25	Drilling Method:	HSA		
Hammer Type:	Automatic			Total Depth (ft):	35.0

Elevation (feet)	Depth (feet)	Graphical Log	DESCRIPTION	Sample Interval	Blow Counts per 6" Interval	Sample Type	Moisture Content (%)	Liquid Limit	Plasticity Index	Passing #200 Sieve (%)	Additional Remarks
			Appx Surface Elevation (ft): Not Provided Surface Condition: Bare Earth	FIELD			LABORATORY				
			FILL: Silty SAND w/gravel (SM), brown to yellow-brown, moist		Pre-cleared	GRAB					
			FILL: Poorly graded SAND w/silt (SP-SM), red-brown, moist		Pre-cleared	GRAB					
	5		Well graded SAND w/gravel (SW), brown, moist, med dense		3 19 5 7	SPT					Recovery = 8"
			Poorly graded SAND (SP), light brown, moist, dense		13 17 20 21	SPT					Recovery = 20"
	10		Well graded SAND w/gravel (SW), light brown to brown, moist, med dense		5 12 11 12	SPT					Recovery = 15"
	15				20 6 13 17	SPT					Recovery = 18"
	20				9 12 12 10	SPT					Recovery = 15"
			Well graded SAND w/silt and gravel (SW-SM), brown, wet, med dense		18 7 9 12	SPT					Recovery = 14"
	25				5 7 8 10	SPT					Recovery = 20"
	30										
			Well graded SAND w/gravel (SW), brown, moist, med dense		10 15 7 9	SPT					
	35		Boring Terminated at 35.0 ft.								

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Drafted By: NRW
Date: August 21
Project Number: 95908

BORING LOG

The Lighthouse at Long Island

BORING TB-14

Sheet 1 of 1

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Location:	Nassau Coliseum, Uniondale, NY			Date Started:	7/30/2008
Groundwater (ft):	Initial (▽): 23.0 feet while drilling.			Date Completed:	7/30/2008
Drilling Company:	ADT	Equipment:	CME-85	Logged By:	Mark Gelband
Hole Diameter (in):	3.25	Drilling Method:	HSA		
Hammer Type:	Automatic			Total Depth (ft):	35.0

Elevation (feet)	Depth (feet)	Graphical Log	DESCRIPTION	FIELD: Sample Interval	FIELD: Blow Counts per 6" Interval	FIELD: Sample Type	LABORATORY: Moisture Content (%)	LABORATORY: Liquid Limit	LABORATORY: Plasticity Index	LABORATORY: Passing #200 Sieve (%)	Additional Remarks
			Appx Surface Elevation (ft): Not Provided Surface Condition: Bare Earth								
			Well graded SAND w/gravel (SW). light brown to red-brown, moist		Pre-cleared	GRAB					
					Pre-cleared	GRAB					
	5		Poorly graded SAND (SP). orange-brown. moist. med dense		3 4 8 11	SPT					Recovery = 12"
					10 12 12 12	SPT					Recovery = 18"
	10				3 5 11 10	SPT					- No Recovery -
			Well graded SAND w/gravel (SW). brown. moist, med dense		7 9 21 21	SPT					Recovery = 17"
	15										
					9 15 14 14	SPT					Recovery = 12"
	20										
			Well graded SAND w/silt and gravel (SW-SM). brown. wet. loose		5 5 5 6	SPT					Recovery = 20"
	25										
					4 5 5 6	SPT					Recovery = 22"
	30										
			Poorly graded SAND w/gravel (SP). brown. wet. loose		9 5 5 6	SPT					Recovery = 22"
	35		Boring Terminated at 35 0 ft								

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KLEINFELDER		**BORING LOG** The Lighthouse at Long Island	BORING TB-15
Drafted By: NRW	Project Number:		Sheet 1 of 1
Date: August 21	95908		

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Location:	Nassau Coliseum, Uniondale, NY			Date Started:	7/30/2008
Groundwater (ft):	Initial (▽): 28.0 feet while drilling.			Date Completed:	7/30/2008
Drilling Company:	ADT	Equipment:	CME-85	Logged By:	Mark Gelband
Hole Diameter (in):	3.25	Drilling Method:	HSA		
Hammer Type:	Automatic			Total Depth (ft):	35.0

Appx Surface Elevation (ft): Not Provided
Surface Condition: Bare Earth

Elevation (feet)	Depth (feet)	Graphical Log	DESCRIPTION	FIELD: Sample Interval	FIELD: Blow Counts per 6" Interval	FIELD: Sample Type	LABORATORY: Moisture Content (%)	LABORATORY: Liquid Limit	LABORATORY: Plasticity Index	LABORATORY: Passing #200 Sieve (%)	Additional Remarks
			FILL: Silty SAND w/gravel (SM), brown to red-brown, moist		Pre-cleared	GRAB					
					Pre-cleared	GRAB					
	5		Well graded GRAVEL w/sand (GW), brown, moist, very loose		1 1 2 5	SPT	7			5	Recovery = 6"
			Well graded SAND w/gravel (SW), brown, moist, med dense		9 12 12 13	SPT					Recovery = 13"
	10		Poorly graded SAND (SP), orange-brown, moist, med dense		5 10 11 10	SPT					Recovery = 14"
	15		Well graded SAND w/gravel (SW), light brown to brown, moist to wet, dense to med dense		14 19 28 20	SPT					Recovery = 18"
	20				9 14 13 10	SPT					Recovery = 13"
	25				3 5 6 9	SPT					Recovery = 14"
		▽			3 9 9 14	SPT					Recovery = 15"
	30										
	35		Well graded SAND w/silt and gravel (SW-SM), brown, wet, med dense		12 20 5 5	SPT					Recovery = 18"
			Boring Terminated at 35 0 ft.								

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Drafted By: NRW
Date: August 21
Project Number: 95908

BORING LOG

The Lighthouse at Long Island

BORING TB-16

Sheet 1 of 1

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APPENDIX B

LABORATORY DATA

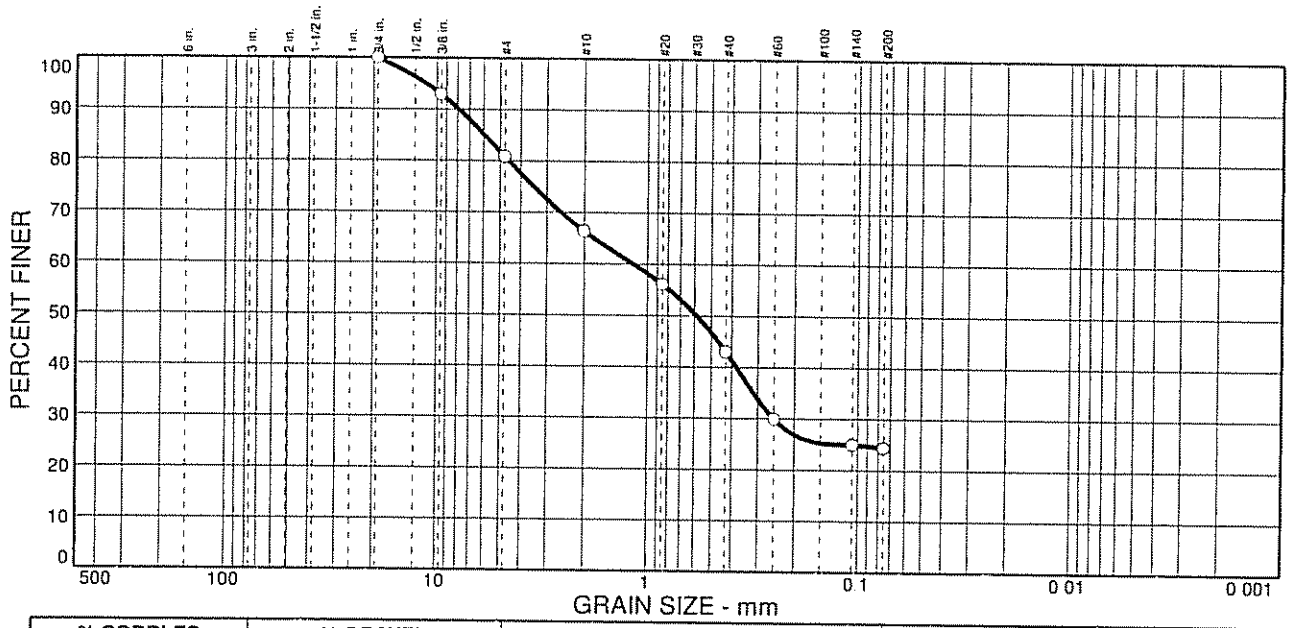
Grain Size Distribution Report

Project: The Lighthouse at Long Island **Project No.:** 95908

Client: Lighthouse Development Group, LLC

Sample No: **Source of Sample:** TB- 1 **Date:** 8/27/08

Location: **Elev./Depth:** 7-9



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	19.2	56.4	24.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75 in.	100.0		
.375 in.	92.9		
#4	80.8		
#10	66.4		
#20	56.1		
#40	43.0		
#60	29.9		
#140	25.0		
#200	24.4		

* (no specification provided)

Soil Description

Silty SAND w/gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 5.94 D_{60}= 1.16 D_{50}= 0.584

D_{30}= 0.251 D_{15}= D_{10}=

C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

M = 3%

Figure

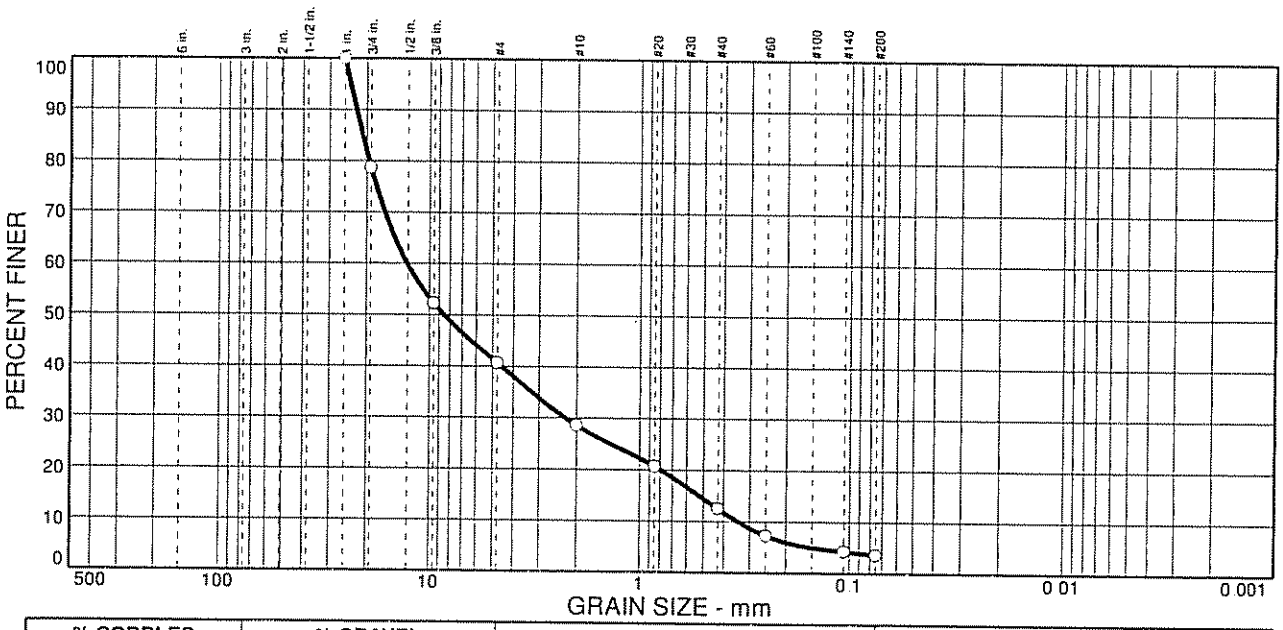
Grain Size Distribution Report

Project: The Lighthouse at Long Island **Project No.:** 95908

Client: Lighthouse Development Group, LLC

Sample No: **Source of Sample:** TB- 2 **Date:** 8/27/08

Location: **Elev./Depth:** 5-7



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	59.3	37.1	3.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 in.	100.0		
.75 in.	78.7		
.375 in.	52.3		
#4	40.7		
#10	28.6		
#20	20.7		
#40	12.5		
#60	7.3		
#140	4.3		
#200	3.6		

* (no specification provided)

Soil Description

Well graded GRAVEL w/sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 20.9 D_{60}= 12.8 D_{50}= 8.50

D_{30}= 2.25 D_{15}= 0.522 D_{10}= 0.339

C_u= 37.66 C_c= 1.17

Classification

USCS= GW AASHTO=

Remarks

M = 0%

Figure

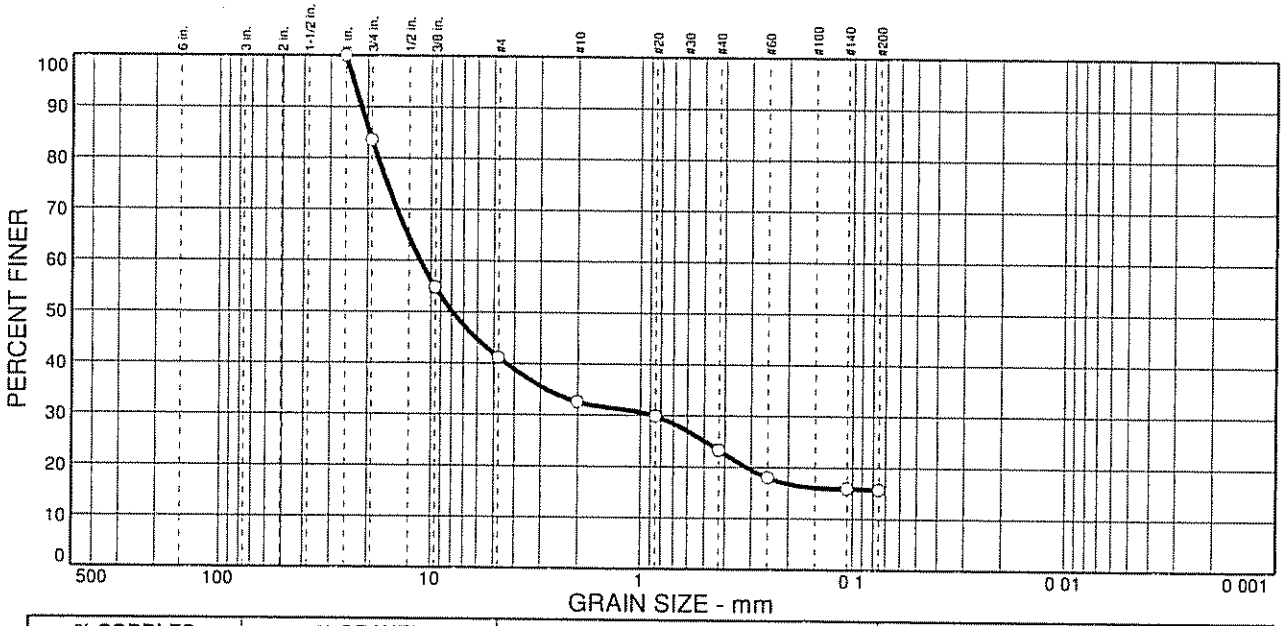
Grain Size Distribution Report

Project: The Lighthouse at Long Island **Project No.:** 95908

Client: Lighthouse Development Group, LLC

Sample No: **Source of Sample:** TB- 6 **Date:** 8/27/08

Location: **Elev./Depth:** 2.5



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	58.8	25.5	15.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 in.	100 0		
.75 in	83 5		
375 in.	54 8		
#4	41.2		
#10	32 6		
#20	29.9		
#40	23 3		
#60	18 0		
#140	15.9		
#200	15 7		

* (no specification provided)

Soil Description

Silty GRAVEL w/sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 19.6 D_{60}= 11.2 D_{50}= 7 90

D_{30}= 0 865 D_{15}= D_{10}=

C_u= C_c=

Classification

USCS= GM AASHTO=

Remarks

M = 3%

Figure

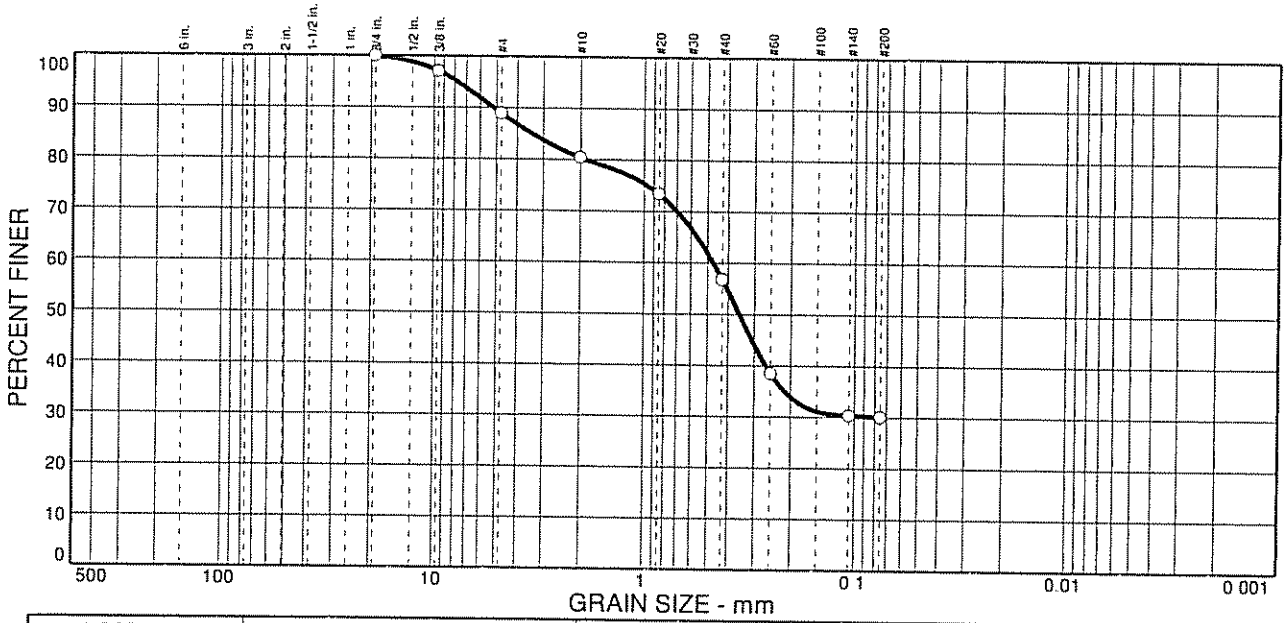
Grain Size Distribution Report

Project: The Lighthouse at Long Island **Project No.:** 95908

Client: Lighthouse Development Group, LLC

Sample No: **Source of Sample:** TB- 7 **Date:** 8/12/08

Location: **Elev./Depth:** 5-7



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	19.6	50.3	30.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75 in.	100 0		
375 in.	97.1		
#4	88 9		
#10	80 4		
#20	73 4		
#40	56 8		
#60	38 5		
#140	30 4		
#200	30 1		

* (no specification provided)

Soil Description

Silty SAND w/gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 3.39 D_{60}= 0.469 D_{50}= 0.352

D_{30}= D_{15}= D_{10}=

C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

M = 5%

Figure

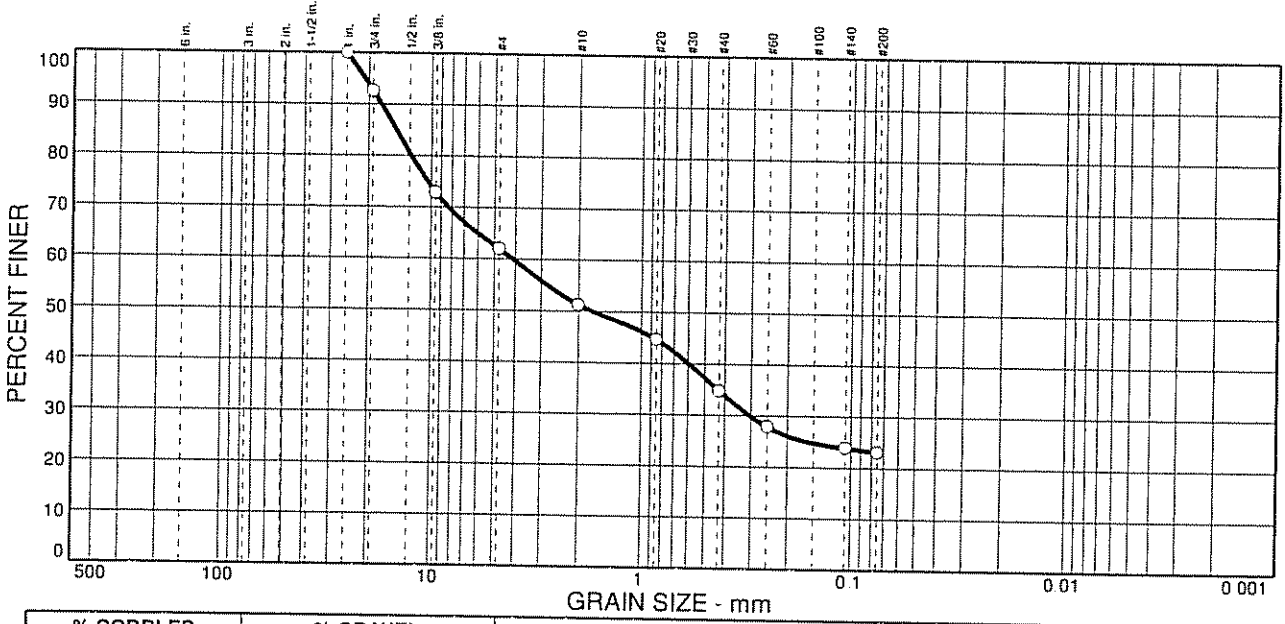
Grain Size Distribution Report

Project: The Lighthouse at Long Island **Project No.:** 95908

Client: Lighthouse Development Group, LLC

Sample No: **Source of Sample:** TB- 9 **Date:** 8/27/08

Location: **Elev./Depth:** 5-7



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	38.0	38.9	23.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 in.	100.0		
.75 in.	92.6		
.375 in.	72.9		
#4	62.0		
#10	51.3		
#20	44.7		
#40	34.8		
#60	27.9		
#140	23.9		
#200	23.1		

* (no specification provided)

Soil Description

Silty SAND w/gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 14.7 D_{60}= 4.08 D_{50}= 1.71

D_{30}= 0.302 D_{15}= D_{10}=

C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

M = 3%

Figure

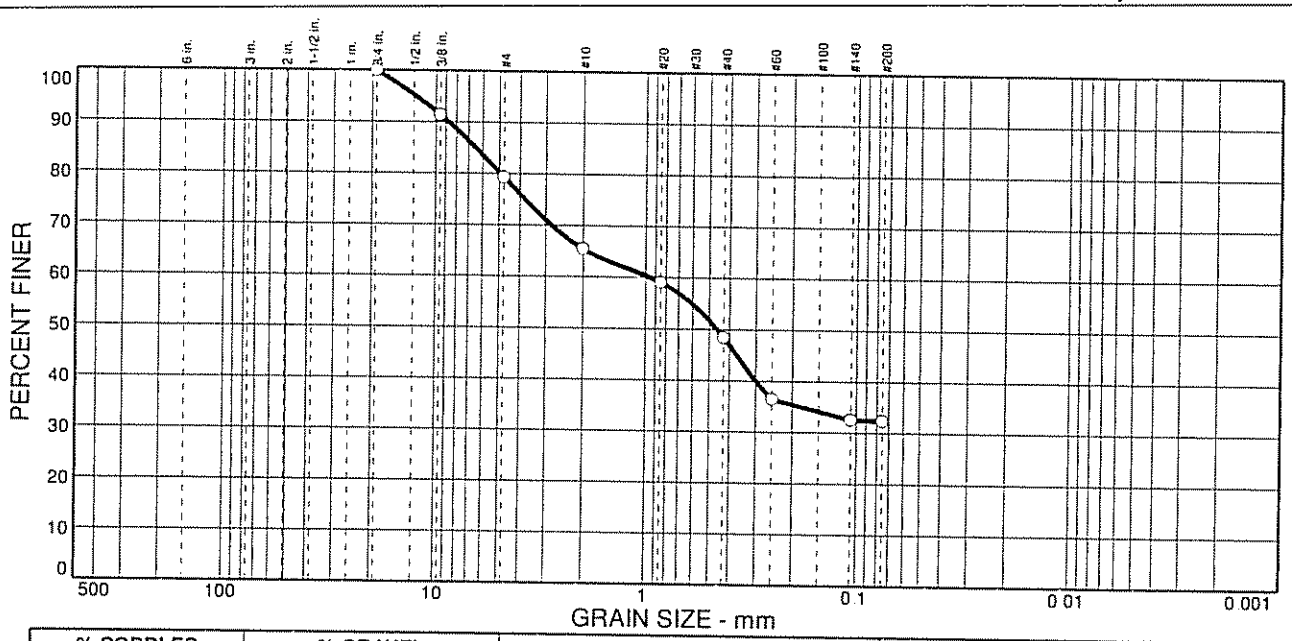
Grain Size Distribution Report

Project: The Lighthouse at Long Island **Project No.:** 95908

Client: Lighthouse Development Group, LLC

Sample No: **Source of Sample:** TB-10 **Date:** 8/27/08

Location: **Elev./Depth:** 5



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	20.7	46.9	32.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75 in	100.0		
.375 in.	91.4		
#4	79.3		
#10	65.5		
#20	59.1		
#40	48.4		
#60	36.5		
#140	32.6		
#200	32.4		

* (no specification provided)

Soil Description

Silty SAND w/gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 6.48 D_{60}= 0.945 D_{50}= 0.458

D_{30}= D_{15}= D_{10}=

C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

M = 2%

Figure

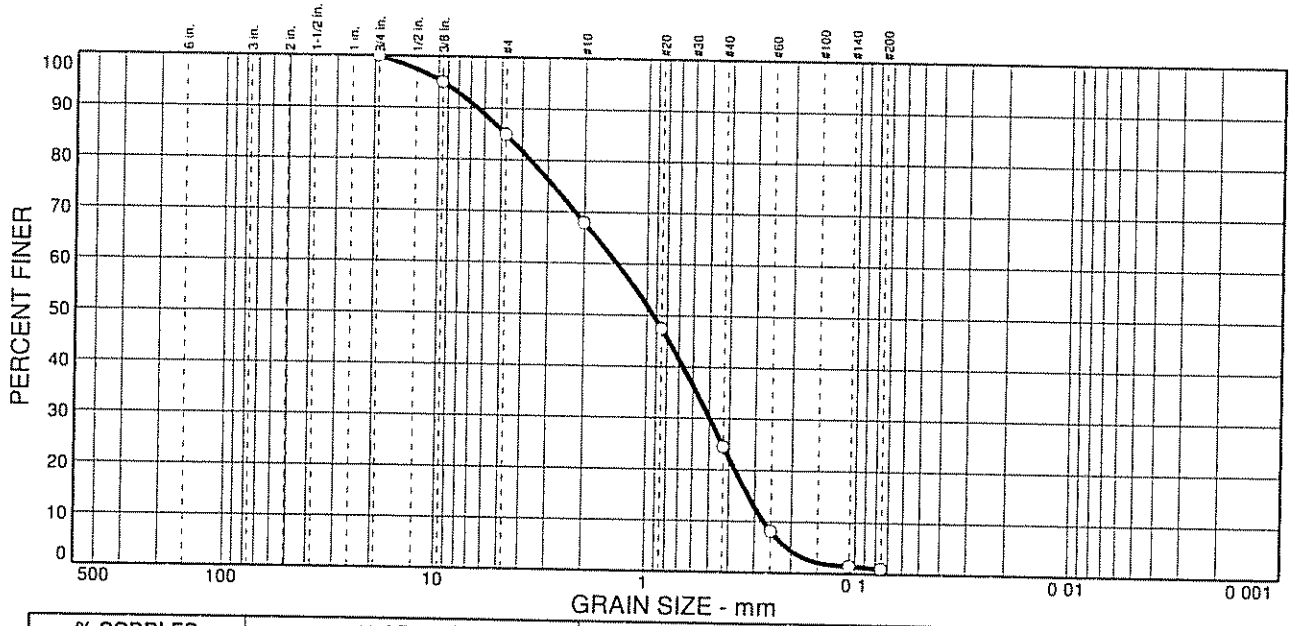
Grain Size Distribution Report

Project: The Lighthouse at Long Island **Project No.:** 95908

Client: Lighthouse Development Group, LLC

Sample No: **Source of Sample:** TB-13 **Date:** 8/12/08

Location: **Elev./Depth:** 7-9



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	32.1	66.9	1.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75 in	100 0		
.375 in.	95 0		
#4	84 9		
#10	67 9		
#20	47 4		
#40	24 5		
#60	8 1		
#140	1.5		
#200	1 0		

* (no specification provided)

Soil Description

Poorly graded SAND w/gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 4.78 D_{60}= 1.39 D_{50}= 0 932

D_{30}= 0.497 D_{15}= 0.322 D_{10}= 0 271

C_u= 5 14 C_c= 0.66

Classification

USCS= SP AASHTO=

Remarks

M = 4%

Figure

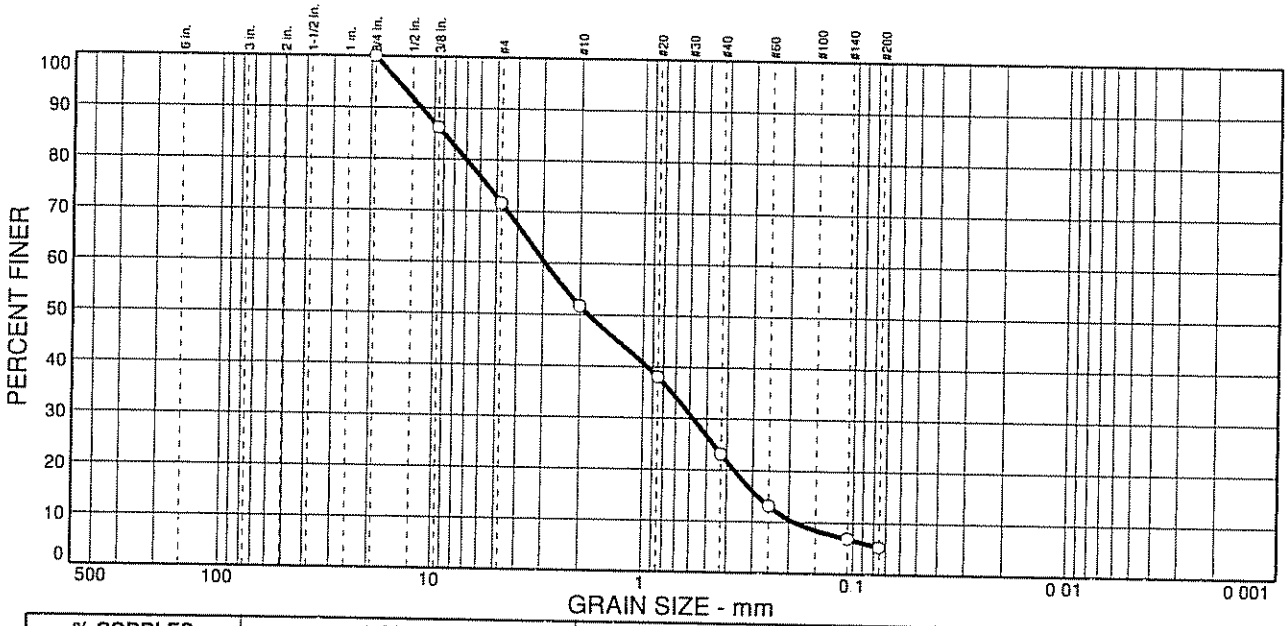
Grain Size Distribution Report

Project: The Lighthouse at Long Island **Project No.:** 95908

Client: Lighthouse Development Group, LLC

Sample No: **Source of Sample:** TB-16 **Date:** 8/12/08

Location: **Elev./Depth:** 5-7



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	48.3	46.4	5.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75 in.	100.0		
375 in.	86.2		
#4	71.6		
#10	51.7		
#20	38.0		
#40	23.1		
#60	13.1		
#140	6.9		
#200	5.3		

* (no specification provided)

Soil Description

Well graded GRAVEL w/sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 8.97 D_{60}= 2.93 D_{50}= 1.82

D_{30}= 0.578 D_{15}= 0.283 D_{10}= 0.188

C_u= 15.60 C_c= 0.61

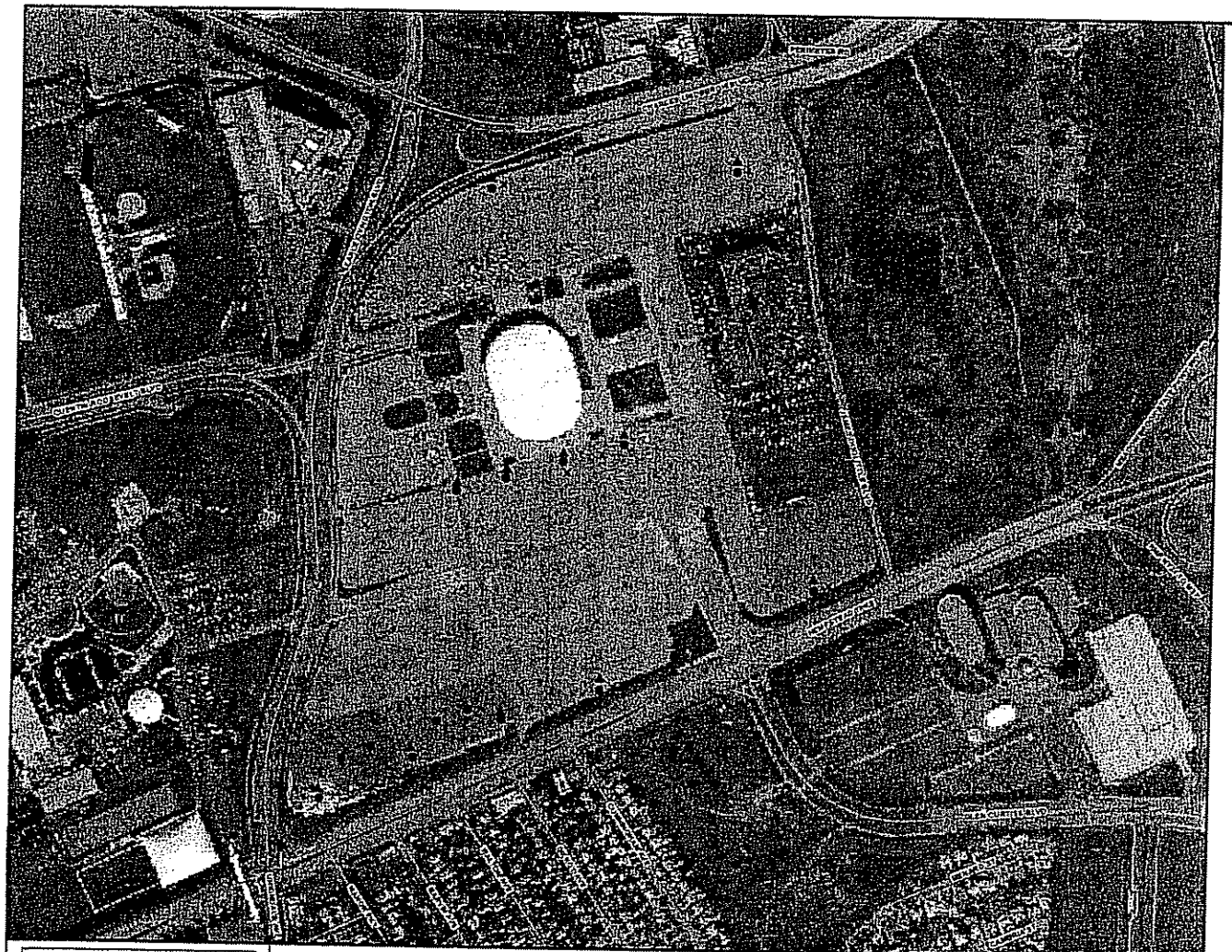
Classification

USCS= GW AASHTO=

Remarks

M = 7%

Figure



LEGEND

- GROUNDWATER SAMPLE POINTS
- GEOPROBE SOIL BORING LOCATIONS
- APPROXIMATE GEOTECHNICAL SOIL BORING LOCATIONS
- NASSAU COUNTY MONITORING WELL LOCATIONS

0 200 400 800

APPROXIMATE SCALE (feet)

1 INCH EQUALS 400 FEET

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PROJECT NO.	
DRAWN:	07/10/2008
DRAWN BY:	JR
CHECKED BY:	
FILE NAME:	

PROPOSED SOIL AND GROUNDWATER SAMPLE AND GEOTECHNICAL SOIL BORING LOCATIONS REVISED 7-10-08

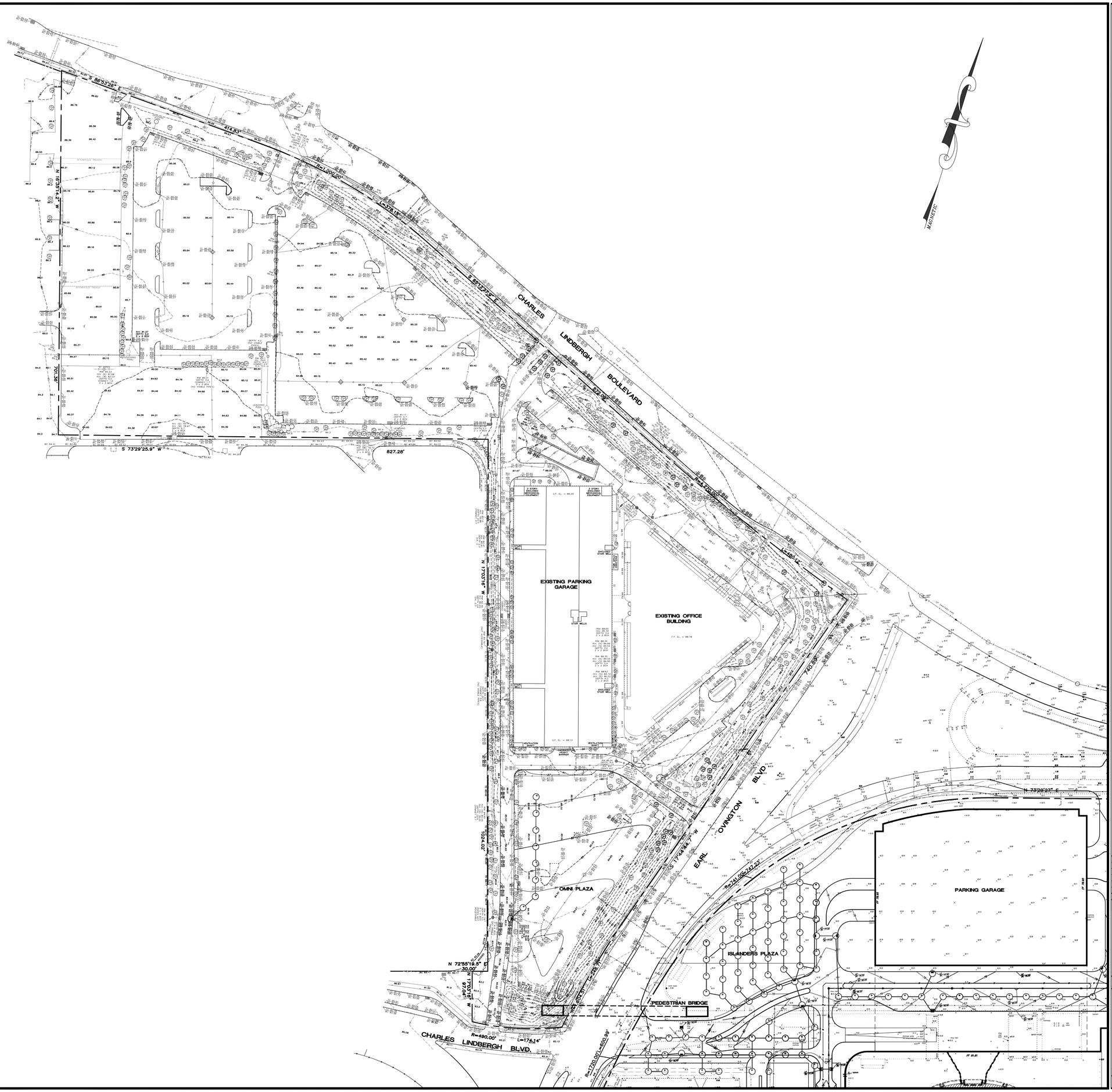
NASSAU COLISEUM
UNIONDALE, NEW YORK

FIGURE 1

G:\NUSH\HOUSE RE\DEVELOPMENT\PROJECTS\PROPOSAL\FIGURE 1 PROPOSED SOIL AND GW SAMPLE LOCATIONS REVISED 7-10-08

Appendix 3.1-5

Conceptual Grading and Drainage Plans



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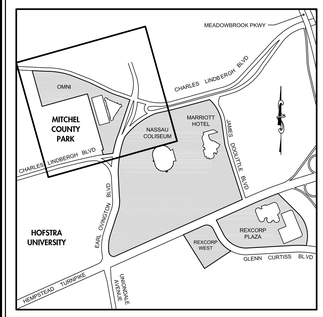

KEY MAP

SCALE: 1" = 1000'

LEGEND	EXISTING	PROPOSED	TO BE REMOVED
EDGE OF PAVEMENT			
CONCRETE CURB			
CHAIN LINK FENCE			
DBL. WALL CPP STORM DRAIN LINES & FITTINGS			
DRAINAGE MANHOLE			
SGL. WALL CPP ROOF DRAIN LINES & FITTINGS			
WATER MAIN			
SANITARY SEWER			
SANITARY MANHOLE			
FIRE HYDRANT			
CATCH BASIN			
DRYWELL/ MH COVER			
DRYWELL/ FLUSH INLET			
DRYWELL/ CIRCULAR INLET			
CONTOUR		79	
TOP/BOTTOM OF CURB		TC 105.70 BC 105.20	
SPOT ELEVATION	x 82.91	+ 103.50	

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

Date	By	Revision

Designed by: SFSF | Drafted by: SS | Checked by:

BBV Barrett Bonacci & Van Weele, PC

Civil Engineers
Surveyors
Planners

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THE LIGHTHOUSE
UNIONDALE

TOWN OF HEMPSTEAD NASSAU COUNTY, NY

CONCEPTUAL GRADING AND DRAINAGE PLAN

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Date	Scale	Project No.	Sheet No.
JANUARY 22, 2009	1"=60'	A041833	GD1

CHARLES LINDBERGH BOULEVARD

N 73°20'27" E

1120.24'

S 16°39'33" E

316.84'

S 73°20'27" E

PARKING GARAGE

PARKING GARAGE

PARKING GARAGE

NORTH STREET

PEDESTRIAN BRIDGE

CONVENTION CENTER

RENOVATED NASSAU COLISEUM

CELEBRATION PLAZA

EXISTING MARRIOT HOTEL

COLISEUM OFFICES AND TRAINING FACILITIES

RETAIL

RESTAURANT

MULTI-STORY RETAIL

PARKING GARAGE

MAIN STREET

PARKING GARAGE

PARKING GARAGE

PARKING GARAGE

CHARLES LINDBERGH BOULEVARD

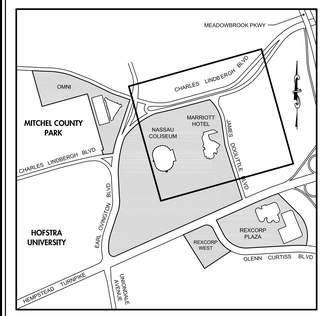
WEST CANAL STREET

EAST CANAL ST.

JAMES DOOLITTLE BOULEVARD

MAGNETIC

THE LIGHTHOUSE AT LONG ISLAND



KEY MAP

SCALE: 1" = 1000'

LEGEND	EXISTING	PROPOSED	TO BE REMOVED
EDGE OF PAVEMENT			
CONCRETE CURB			
CHAIN LINK FENCE			
DBL. WALL CPP STORM DRAIN LINES & FITTINGS	D	D	
DRAINAGE MANHOLE			
SGL. WALL CPP ROOF DRAIN LINES & FITTINGS		R	
WATER MAIN	W	W	
SANITARY SEWER	S	S	
SANITARY MANHOLE			
FIRE HYDRANT			
CATCH BASIN			
DRYWELL/ MH COVER			
DRYWELL/ FLUSH INLET			
DRYWELL/ CIRCULAR INLET			
CONTOUR		79	
TOP/BOTTOM OF CURB		TC 105.70 / BC 105.20	
SPOT ELEVATION	×83.83	+103.50	

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

Date	By	Revision

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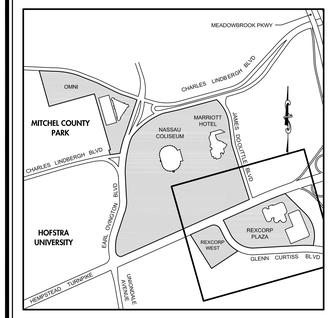

KEY MAP

SCALE: 1" = 1000'

LEGEND	EXISTING	PROPOSED	TO BE REMOVED
EDGE OF PAVEMENT			
CONCRETE CURB			
CHAIN LINK FENCE			
DBL. WALL CPP STORM DRAIN LINES & FITTINGS			
DRAINAGE MANHOLE			
SGL. WALL CPP ROOF DRAIN LINES & FITTINGS			
WATER MAIN			
SANITARY SEWER			
SANITARY MANHOLE			
FIRE HYDRANT			
CATCH BASIN			
DRYWELL/ MH COVER			
DRYWELL/ FLUSH INLET			
DRYWELL/ CIRCULAR INLET			
CONTOUR		79	
TOP/BOTTOM OF CURB		TC 108.75 BC 108.25	
SPOT ELEVATION	x 63.61	+ 103.50	

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

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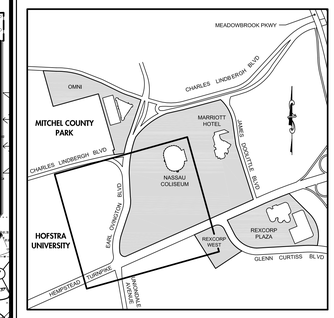

KEY MAP

SCALE: 1" = 1000'

LEGEND	EXISTING	PROPOSED	TO BE REMOVED
EDGE OF PAVEMENT			
CONCRETE CURB			
CHAIN LINK FENCE			
DBL. WALL, CPP STORM DRAIN LINES & FITTINGS	D	D	
DRAINAGE MANHOLE			
SGL. WALL, CPP ROOF DRAIN LINES & FITTINGS		R	
WATER MAIN	W	W	
SANITARY SEWER	S	S	S
SANITARY MANHOLE			
FIRE HYDRANT			
CATCH BASIN			
DRYWELL/ MH COVER			
DRYWELL/ FLUSH INLET			
DRYWELL/ CIRCULAR INLET			
CONTOUR		79	
TOP/BOTTOM OF CURB		TC 108.70 BC 108.20	
SPOT ELEVATION	x 83.91	+ 103.50	

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
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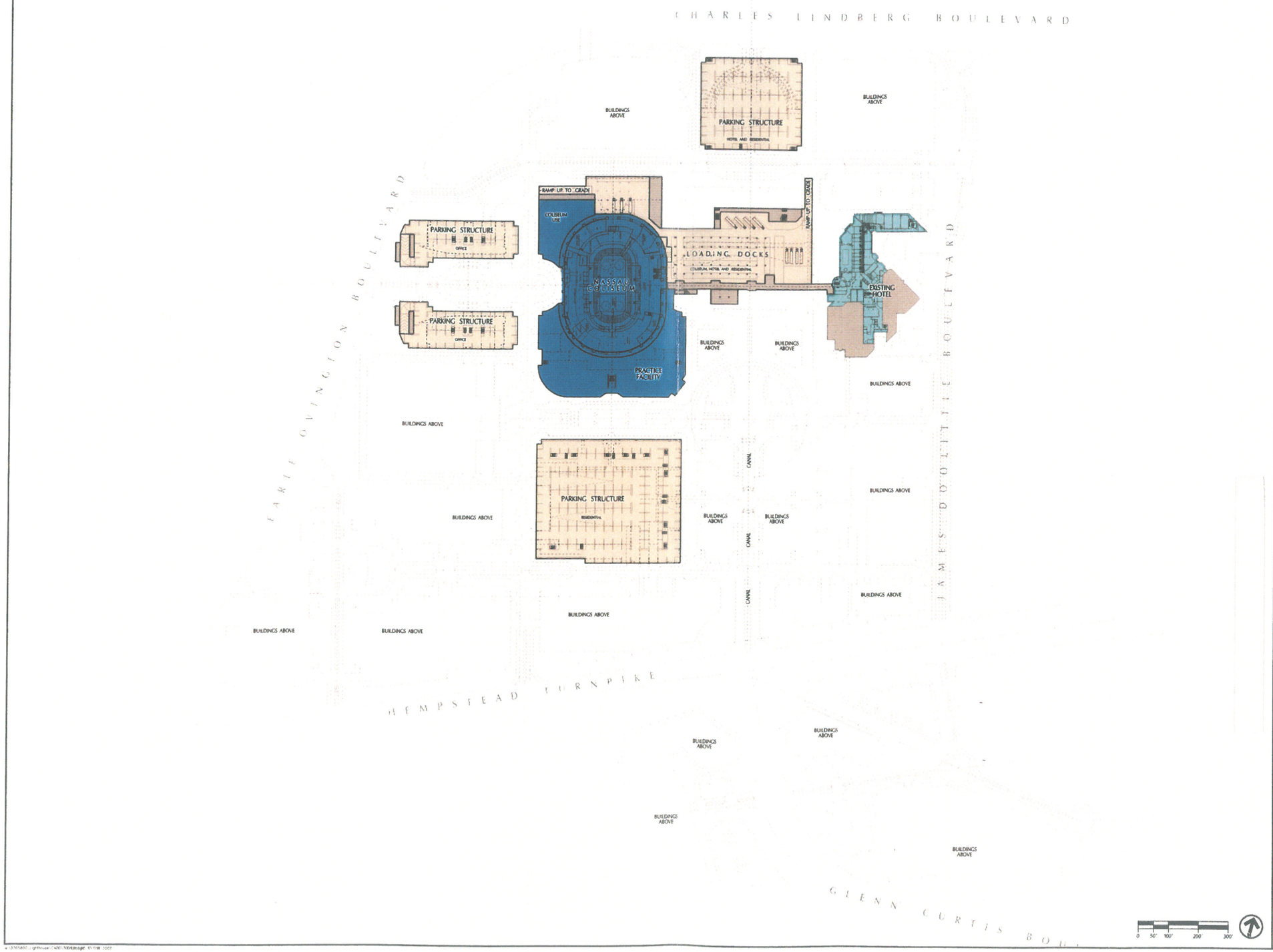
Appendix 3.1-6

Basement Plans



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LIGHTHOUSE DEVELOPMENT GROUP, LLC

MASTER PLANNER, DESIGN ARCHITECT
Development Design Group Incorporated

ASSOCIATE ARCHITECT
Spector Group

CONCEPTUAL ARCHITECT
Stadium Consultants International

CIVIL ENGINEERING
Barret Bonacci & Van Weele, PC

PARKING CONSULTANTS
Walker Parking Consultants

TRAFFIC CONSULTANTS
ESCHBACHER VHB

ENVIRONMENTAL CONSULTANTS
NELSON, POPE & VOORHIS, LLC

ENVIRONMENTAL CONSULTANTS
FREUDENTHAL & ELKOWITZ CONSULTING GROUP INC.

LEGAL CONSULTANTS
FARRELL FRITZ, P.C.

PLANNED DEVELOPMENT DISTRICT APPLICATION

November 13, 2007

SHEET TITLE
BASEMENT B2 PLAN
-24'-0"/ -30"-0"

SCALE 1:100

SHEET NO.
30.01

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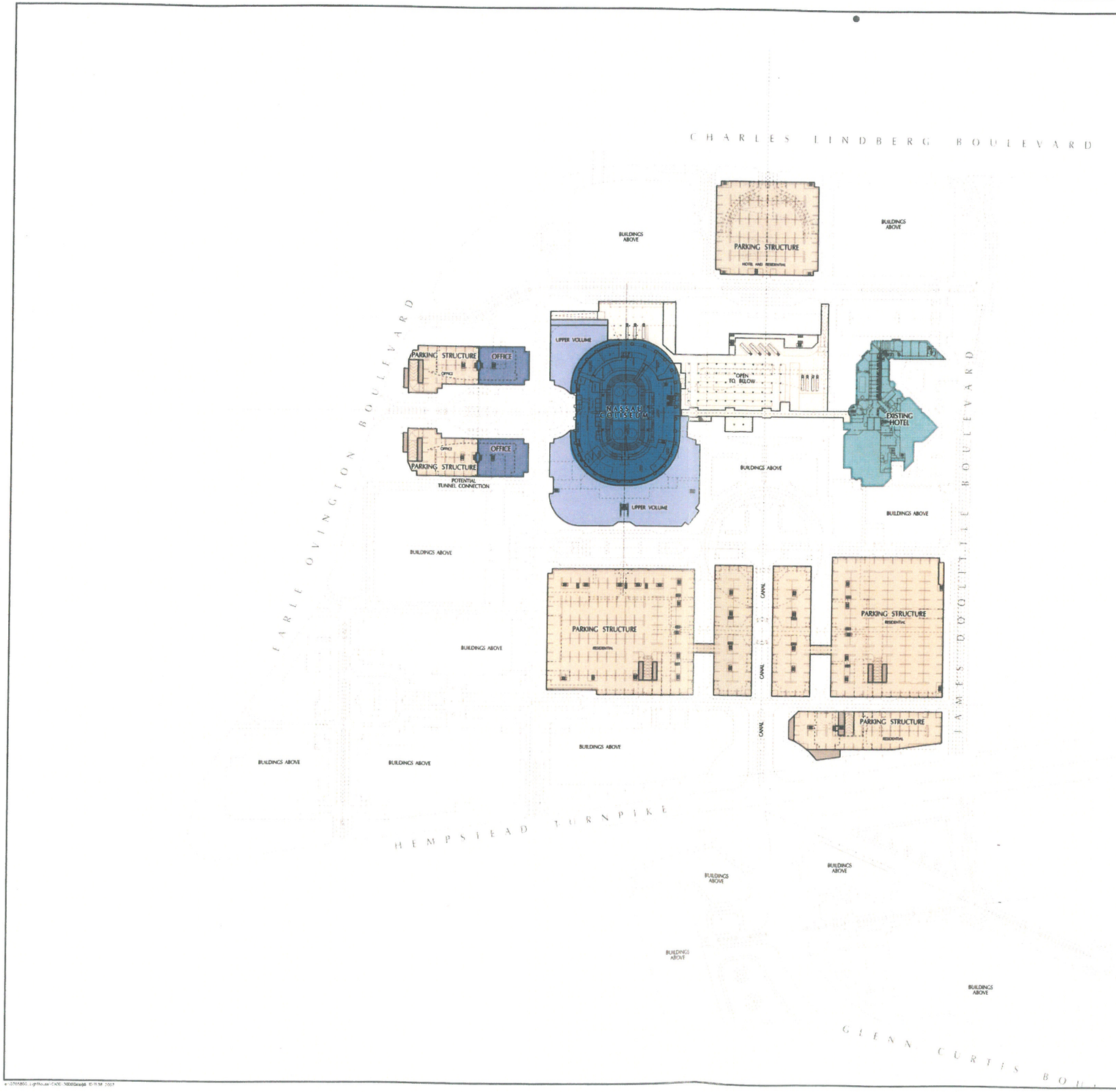

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ENVIRONMENTAL CONSULTANTS
NELSON, POPE & VOORHIS, LLC

ENVIRONMENTAL CONSULTANTS
FREUDENTHAL & ELKOWITZ CONSULTING GROUP, INC.

LEGAL CONSULTANTS
FARRELL FRITZ, P.C.

PLANNED DEVELOPMENT DISTRICT APPLICATION

November 13, 2007

SHEET TITLE

BASEMENT B1 PLAN -12"-0"

SCALE 1:100

SHEET NO.

30.02

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1.2 Previous Environmental Investigations 1
2.0 PHASE II INVESTIGATION 3
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8. Summary of Metals in Groundwater
9. Summary of Polychlorinated Biphenyls in Groundwater
10. Summary of Pesticides in Groundwater
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FIGURES

1. Site Location Map
2. Phase II ESA Sampling Locations
3. Groundwater Contour Map
4. Soil Sample Results
5. Groundwater Sample Results

APPENDICES

A. Soil Boring Logs
B. Groundwater Sample Logs
C. Laboratory Analytical Data *(Provided on CD in Bound Report)*

1.0 INTRODUCTION

At the request of Nassau Events Center, LLC (NEC), Roux Associates, Inc. (Roux Associates) performed a Phase II Environmental Site Assessment (Phase II ESA) within the footprint of the proposed redevelopment at the Nassau Veterans Memorial Coliseum located at 1255 Hempstead Turnpike in the Uniondale, New York (Site) (Figure 1). The Phase II ESA fieldwork was conducted from February 28, 2014 through March 19, 2014 in accordance with the scope of work, as presented in Roux Associates' Proposal dated February 11, 2014 (Scope of Work). This report contains a discussion of the methods and findings of the Phase II ESA.

1.1 Site Background and Description

The Site is comprised of one building (i.e., Coliseum) and surrounding open space and parking, and is identified as 1255 Hempstead Turnpike, located in Uniondale, New York. The Site is within the Town of Hempstead Mitchel Field Mixed-Use (MFM) District, Sections 146.1 et seq. of the Town of Hempstead Building Zone Ordinance. Phase II was focused in the areas of development. According to NEC, the Site development will consist of several slab on grade-constructed buildings surrounding the Coliseum. The current redevelopment plans include the renovation of the existing Coliseum and the addition of approximately 122,000 square feet of retail space at the Site in addition to a plaza, Movie Theater, restaurants and soccer field. At the time of this Phase II ESA, the Coliseum was active.

1.2 Previous Environmental Investigations

Roux Associates was provided by NEC with the following environmental documents pertaining to the environmental setting and history of the Site:

- Phase I Environmental Site Assessment of Nassau County Veterans Memorial Coliseum, 1255 Hempstead Turnpike, Hamlet of Uniondale, Town of Hempstead, Nassau County, New York; dated March 2005; completed by Freudenthal & Elkowitz Consulting Group (F&E Phase I ESA); and

- Phase II Limited Environmental Site Assessment, Lighthouse Development Project, 1255 Hempstead Turnpike, Uniondale, New York; dated September 30, 2008; completed by Kleinfelder East Inc. (Kleinfelder Phase II ESA).

The Kleinfelder Phase II ESA was conducted as part of the former Lighthouse Development Project to assist the Lighthouse Development Group, LLC with determining future needs and planning for the properties redevelopment. The Lighthouse Development Project included the

proposed redevelopment of the Coliseum. The objective of the Kleinfelder Phase II ESA was to assess soil and groundwater quality beneath the overall Lighthouse Development Project (including the Coliseum) and to further investigate the recognized environmental concerns (RECs) associated with the past and current property use. The Kleinfelder Phase II ESA consisted of a subsurface investigation including the collection of soil and groundwater samples. The following environmental concerns associated with NEC's redevelopment of the Site were noted in the Kleinfelder Phase II ESA:

- Potential undocumented releases of hazardous substances as a result of historical use of the Site as a portion of a military airbase - including the potential historical use of petroleum products and solvents may have impacted soil and groundwater;
- Documented presence of historic fill materials of unknown origin;
- Undocumented releases from on-Site Diesel Fuel Storage including an existing 1,000-gallon diesel fuel storage underground storage tank (UST) and a previously removed 1,000-gallon diesel UST;
- Potential for leaking parked vehicles and truck traffic to impact storm-water adjacent to the Site, the discharge point of which is unknown;
- Releases of ethylene glycol from the Coliseum's ice-plant; and
- Potential undocumented releases from bulk chemical storage associated with Coliseum operations.

A total of 18 soil borings were completed as part of the Kleinfelder Phase II ESA; however, only one soil boring (SB-14) was completed within the footprint of the proposed redevelopment of the Site. Roux Associates' conducted the Phase II ESA to investigate the areas within the footprint of the proposed redevelopment of the Site.

2.0 PHASE II INVESTIGATION

The Phase II ESA was conducted in accordance with the Scope of Work described in Roux Associates' Proposal dated February 11, 2014. The final sampling locations are provided on Figure 2. The Scope of Work included:

- A focused geophysical survey (i.e., within 10 feet radially of each soil boring);
- Completion of 12 soil borings;
- Collection and laboratory analysis of 26 soil samples including two duplicate soil samples;
- Installation of four permanent groundwater monitoring wells at selected soil boring locations;
- Collection and laboratory analysis of five groundwater samples including one duplicate groundwater sample; and
- Professional land survey for horizontal and vertical coordinates, and elevations of each soil boring and monitoring well.

A description of the field investigation procedures is provided below. Soil Boring Logs are provided in Appendix A, Groundwater Sampling Logs are provided in Appendix B, and complete copies of the Laboratory Data Packages are provided in Appendix C.

2.1 Focused Geophysical Survey

A focused geophysical survey was performed on February 28, 2014, to identify potential buried utility lines (e.g., natural gas, electric, sewer, water, etc.) in the vicinity of proposed soil boring locations, prior to the start of any intrusive activities. The geophysical survey utilized electromagnetic utility-locating instruments and ground penetrating radar, at all proposed soil boring locations. During the geophysical survey, all detectable subsurface utilities and features within 10 feet of 12 proposed soil boring locations were marked out on the ground surface with paint using the uniform color code system. All geophysical survey activities were conducted by Naeva Geophysics, Inc., of Congers, New York.

In addition, New York State's One-Call was also notified to perform a mark-out of known utilities within the Site.

2.2 Soil Investigation

Roux Associates' soil investigation was conducted between February 28, 2014 and March 7, 2014. Prior to the completion of the soil borings, each boring location was cleared to a minimum depth of five feet below land surface (ft bls) using Vactron™ technology and hand tools (e.g., post-hole digger, shovel, hand-auger etc.) to verify the absence of utilities. There were no utilities encountered during utility clearance activities.

Following utility clearance activities, soil boring installations and soil sampling were conducted using the direct push drilling method. All drilling activities were conducted by Aquifer Drilling and Testing, Inc. of Mineola, New York. Twelve soil borings (SB-2 through SB-9 and MW-1 through MW-4) were installed at the locations shown on Figure 2. Proposed soil boring, SB-1, was located within an existing tunnel space and could not be completed (see Figure 2). All soil borings were advanced to the observed water interface (i.e., approximately 30 feet bls) with the exception of MW-1 through MW-4. MW-1 and MW-4 were advanced to approximately 5 feet below the water interface in preparation of groundwater monitoring well installations at those locations.

All soil samples were field screened for volatile organic compounds (VOCs) using a photoionization detector (PID) and were inspected for evidence of contamination (e.g., odors, staining, and visible free product). The lithology of the soil was recorded according to the Unified Soils Classification System (USCS).

A total of 26 soil samples were collected and submitted for laboratory analysis. One soil sample was collected from each boring for laboratory analysis from the two-foot interval immediately below land surface (0-2 ft bls) or below asphalt (0.5-2.5 ft bls). An additional soil sample was collected from the two foot interval located directly above the observed groundwater interface at each boring or highest PID.

All soil samples were analyzed utilizing USEPA Method 8260B for Target Compound List (TCL) VOCs, USEPA Method 8270C for TCL Semi-Volatile Organic Compounds (SVOCs), USEPA Method 8081B for TCL Pesticides, USEPA Method 6020A for Target Analyte List (TAL) Metals, USEPA Method 7470A for Mercury, and USEPA Method 8082A for polychlorinated biphenyls (PCBs).

Following screening and sampling, soil cuttings were returned to the boreholes. Excess soil was containerized in 55-gallon drums, labeled and stored in a temporary on-site drum storage area for future disposal. The surface at each borehole was restored to the surrounding media (asphalt or top soil).

All soil boring locations were surveyed for horizontal and vertical coordinates by Angle of Attack Land Survey of Setauket, New York (a New York State [NYS] licensed surveyor). Horizontal coordinates were referenced to the NYS Plane Coordinate System, Long Island Zone, North American Datum of 1983 (NAD 83). Vertical coordinates (elevations) were measured for grade elevations referenced to the National Geodetic Vertical Datum of 1929 (NGVD 29).

2.3 Groundwater Investigation

A total of four permanent groundwater monitoring wells were installed at locations MW-1 through MW-4 on March 10, 2014 and March 11, 2014 (Figure 2). The monitoring wells were installed using the hollow stem auger (HSA) drilling method. Each well was constructed of 2-inch diameter, Schedule 40 polyvinyl chloride (PVC) casing and 10 feet of 0.020-inch slot, screen installed to bridge the groundwater interface. A gravel pack consisting of #1 Sand was placed around the screen and to two-feet above the top of the screen, followed by an approximate two foot layer of bentonite pellets. The bentonite pellets were hydrated with potable water before filling the remainder of the well annulus with cement-bentonite grout. The surface at each new well location was completed with an eight-inch diameter, flush mounted curb box, concreted in place.

Following monitoring well installation, each well was developed in an effort to achieve a hydraulic connection between the screen and the surrounding formation as well as to remove any fine sediment that may have accumulated during the monitoring well installations. Monitoring well development activities included mechanical surging with a surge block and pumping with a submersible pump. The development water was pumped from each well into 55-gallon drums via a submersible pump. All drums containing groundwater were labelled and stored in the temporary on-site drum storage area for future disposal.

Monitoring wells MW-1 through MW-4 were sampled on March 19, 2014; approximately one week after development. Groundwater samples were collected using the methods described in *Low Stress*

Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells (USEPA, 2010).

Prior to groundwater sampling, groundwater level measurements were collected on March 19, 2014, in an effort to determine groundwater level elevations within the Site. The monitoring wells were gauged using an electronic interface probe to detect the presence of free-product, if any. No free-product was detected in any of the monitoring wells during the gauging round.

During groundwater sampling, an in-line, water quality measurement device was used to monitor water quality indicator parameters such as pH, conductivity, dissolved oxygen (DO), oxygen reduction potential (ORP), temperature, and turbidity. The field parameters were recorded on well sampling data forms, which are included as Appendix B.

The groundwater samples were analyzed utilizing USEPA Method 8260B for TCL VOCs, USEPA Method 8270C for TCL SVOCs, USEPA Method 8015D for ethylene glycol, USEPA Method 8081B for TCL Pesticides, USEPA Method 6020A for TAL metals, USEPA Method 7470A for Mercury, and USEPA Method 8082A for PCBs.

The monitoring wells were surveyed for horizontal and vertical coordinates by Angle of Attack Land Survey of Setauket, New York (a NYS licensed surveyor). Horizontal coordinates were referenced to the New York State Plane Coordinate System, Long Island Zone, North American Datum of 1983 (NAD 83). Vertical coordinates (elevations) were measured for top-of-casing (measuring point) and grade elevations referenced to the National Geodetic Vertical Datum of 1929 (NGVD 29).

Soil and groundwater samples were submitted to TestAmerica Laboratories (TestAmerica) in Edison, New Jersey under chain of custody procedures. TestAmerica is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory. All sample analyses were performed in accordance with the NYSDEC Analytical Services Protocol (ASP).

3.0 PHASE II ESA RESULTS

Work completed as part of this Phase II ESA included the collection of soil and groundwater samples. An overview of hydrogeologic conditions, followed by an evaluation of the environmental media sampling results is provided below. Geologic logs developed for each soil boring are provided in Appendix A. A full set of laboratory analytical data is provided as Appendix C. These analytical results are summarized and compared against applicable criteria in Tables 1 through 11 and are discussed in this section following the discussion of regional and Site hydrogeology.

3.1 Site Geology

The subsurface material observed during the Phase II ESA fieldwork predominantly consisted of historic fill and brown to light brown well-graded sands and gravels. Several of the soil borings that were located on landscaped areas of the Site were immediately underlain by 2 feet of topsoil. The Site is immediately underlain by historic fill of fine to coarse sand (predominantly brown) with some gravel encountered at depths immediately below topsoil and asphalt pavement.

The observed surficial geologic features, excluding the topsoil and historic fill, are the result of Pleistocene glaciation. This upper layer of glacial material is expected to extend approximately 70 feet in this area and is known as the Upper Glacial Formation. This layer is followed by approximately 250 feet of sand, clay, and gravel, which form the Magothy Formation. The Magothy Formation is underlain by approximately 170 feet of clay, which forms the Raritan Confining Unit underlain by approximately 200 feet of sand and gravel, which forms the Lloyd Sand Member. The underlying bedrock beneath the Site consists of crystalline metamorphic and igneous rock (USGS Hydrogeologic Framework of Long Island, New York; Hydrologic Investigations Atlas HA-709, 1989). Bedrock was not encountered during completion of the Phase II ESA soil borings, which were advanced to a maximum depth of 38 ft bls.

3.2 Site Hydrogeologic Conditions

During soil boring activities, the groundwater interface was encountered between 29 and 32 ft bls. Based on the gauging data of newly installed monitoring wells (MW-1 through MW-4), the groundwater flow is in a generally south-southwesterly direction. Figure 3 depicts groundwater elevation contours and estimated flow direction.

3.3 Soil Analytical Results

Based on the proposed redevelopment plans for the Site, the soil analytical results were compared to the New York State Department of Environmental Conservation (NYSDEC) 6 New York Code of Rules and Regulations (NYCRR) Part 375 Unrestricted Use Soil Cleanup Objectives (SCOs) as well as Restricted Commercial Use SCOs as presented in the Environmental Remediation Program Document effective December 14, 2006. Soil analytical data is provided in Tables 1 through 5.

Based on the analytical results of the collected soil samples, there were no exceedances of the Part 375 Unrestricted Use SCOs for VOCs, SVOCs, pesticides, and metals. No evidence of soil contamination (i.e., odor, staining, or elevated PID concentrations) was observed by field screening conducted during completion of the soil borings.

No PCBs were detected at concentrations above the Part 375 Unrestricted Use and Restricted Commercial Use SCOs with the exception of two of the 26 soil samples. PCBs were detected above the Part 375 Unrestricted Use and Restricted Commercial Use SCOs in the soil sample collected from SB-9 (27-29) and from the duplicate sample collected from SB-8 (27-29), at concentrations of 110 micrograms per kilogram (µg/kg) and 130 µg/kg, respectively. These concentrations are slightly above the Part 375 Unrestricted Use and Restricted Commercial Use SCOs for PCBs in soil of 100 µg/kg.

Based upon the limited distribution and low concentrations of PCBs in soils, low-level PCB-impacted soil may exist at a few locations and intervals throughout the Site. PCB-impacted soil may need to be either further delineated and/or further addressed during redevelopment.

3.4 Groundwater Analytical Results

Groundwater samples were collected from the four newly installed monitoring wells (MW-1 through MW-4). Groundwater analytical data is provided in Tables 6 through 11. The groundwater analytical results were compared to the NYSDEC Ambient Water-Quality Standards and Guidance Values (AWQSGVs).

Based on the analytical results, there were no exceedances of VOCs, SVOC, pesticides, or PCBs in any of the groundwater samples collected during the Phase II ESA.

Various metals were detected in the groundwater samples collected during the Phase II ESA however, only sodium and iron were detected at concentrations above the NYSDEC AWQSGV (20,000 micrograms per liter [µg/L] and 300 µg/L, respectively). Sodium was detected at concentrations ranging from 57,900 µg/L to 145,000 µg/L as detected in MW-3 and MW-4, respectively. Iron was detected at concentrations ranging from 228 µg/L to 7,330 µg/L as detected in MW-2 and MW-3, respectively. Although sodium and iron were detected at the concentrations above the NYSDEC AWQSGV, these metals are most likely from naturally occurring minerals and not indicative of historical Site operations.

4.0 CONCLUSIONS

Based on the results of the Phase II ESA conducted by Roux Associates, no significant impacts of VOCs, SVOCs, metals, and pesticides exceeding Part 375 Unrestricted Use SCOs were identified. PCBs were detected in deep soil samples (i.e., 27-29 ft bls interval) slightly above the Part 375 Unrestricted and Restricted Commercial Use SCOs at two locations. Based upon the limited distribution and low concentrations of PCBs in soils, low-level PCB-impacted soil may exist at a few locations and intervals throughout the Site. PCB-impacted soil may need to be either further delineated and/or further addressed during redevelopment.

In addition, no significant impacts of VOCs, SVOCs, pesticides, and PCBs exceeding the NYSDEC AWQSGVs were identified. Sodium and iron were the only metals detected in groundwater at concentrations above the NYSDEC AWQSGV. However, the concentrations of these metals are most likely from naturally occurring minerals and not indicative of historical Site operations. PCBs were not detected in groundwater during this Phase II ESA as well as during previous environmental investigations.

Respectfully submitted,

ROUX ASSOCIATES, INC.

Jeff Wills
Project Hydrogeologist

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Nassau Events Center (NEC) Project

Hamlet of Uniondale, Town of Hempstead, Nassau County, New York

Expanded Environmental Assessment Form (EAF)

Applicant:
Nassau Events Center, LLC

Lead Agency:
Town Board of the Town of Hempstead

Lead Preparer:
AKRF

April 2015
Revised April 30, 2015

Expanded Environmental Assessment Form (EAF)

for the

Nassau Events Center (NEC) Project

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AKRF

April 2015

Revised April 30, 2015

List of Preparers

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✷

Full Environmental Assessment Form
Part 1 – Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonable available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D, & E, most items contain an initial question that must be answered either "Yes" or "No." If the answer to the initial question is "Yes," complete the sub-questions that follow. If the answer to the initial question is "No," proceed to the next question. Section F allows the project sponsor to verify that the information contain in Part 1 is accurate and complete.

A. Project and Sponsor Information

Name of Action or Project: **Site Plan Approval from the Town of Hempstead for the Nassau Events Center (NEC) Project**		
Project Location (describe, and attach a general location map): **1255 Hempstead Turnpike, Uniondale, NY 11533, Town of Hempstead, Nassau County (see Attachment A, Figure A-1 for map)**		
Brief Description of Proposed Action (include purpose or need): **(See also "Description of the Proposed Action," attached)** **Site plan approval from the Town of Hempstead for the Nassau Events Center (NEC) Project. The approval will allow the applicant to make improvements to the existing Nassau County Veterans Memorial Coliseum (the "Coliseum"), and to develop new restaurants, a movie theater, and other attractions and public amenities as described in Attachment A. Currently, the project site is occupied by the Coliseum, which hosts year-round activities including the home games of the National Hockey League's New York Islanders as well as concerts and various indoor and outdoor sporting and entertainment events; the site, which is largely paved and developed, also provides surface parking. There is a recognized need to revitalize the Coliseum to ensure its long-term vitality and to create a lively regional, mixed-use center within the Nassau Hub.** ?		
Name of Applicant/Sponsor: **Nassau Events Center, LLC**	Telephone: **(718) 923-8569** E-Mail:	
Address: **1 Metrotech Center, 23rd Floor**		
City/PO: **Brooklyn**	State: **NY**	Zip Code: **11201**
Project Contact (if not same as sponsor; give name and title/role): **Nassau Events Center, LLC c/o Miriam R. Milgrom, Esq.**	Telephone: **(516) 780-0259** E-Mail: **M.Milgrom@bhpp.com**	
Address: **Berkman, Henoch, Peterson, Peddy & Fenchel, P.C., 100 Garden City Plaza**		
City/PO: **Garden City**	State: **NY**	Zip Code: **11530**
Property Owner (if not same as sponsor): **The County of Nassau**	Telephone: **(516) 571-6200** E-Mail:	
Address: **1550 Franklin Avenue**		
City/PO: **Mineola**	State: **NY**	Zip Code: **11501**

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)		
Government Entity	**If Yes: Identify Agency and Approval(s) Required**	**Application Date (Actual or projected)**
a. City Council, Town Board, or Village Board of Trustees ¢ Yes £ No	**Town of Hempstead Town Board, site plan and conceptual master plan approvals**	**November 2014**
b. City, Town or Village Planning Board or Commission £ Yes ¢ No		
c. City Council, Town or Village Zoning Board of Appeals £ Yes ¢ No		
d. Other local agencies ¢ Yes £ No	**Town of Hempstead Water Dept., water service approval; Town of Hempstead Highway Department, curb cuts, highway work permits**	
e. County agencies ¢ Yes £ No	**County of Nassau, Lease for the Coliseum site; Nassau County Dept. of Public Works, sewer connection/stormwater, approval of curb cuts, highway work permits; Nassau County Health Department, water supply/sanitary disposal**	**Lease approved September 23, 2013 subject to a separate EAF**
f. Regional agencies ¢ Yes £ No	**Nassau County Planning Commission, (GML § 239 - m)**	
g. State agencies ¢ Yes £ No	**New York State Department of Environmental Conservation, New York State Department of Health, SPDES General Permit; New York State Department of Transportation, curb cuts, highway work permits**	
h. Federal agencies £ Yes ¢ No		
i. Coastal Resources *i*. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? £ Yes ¢ No If Yes, *ii*. If the project site located in a community with an approved Local Waterfront Revitalization Program? £ Yes £ No *iii*. Is the project site within a Coastal Erosion Hazard Area? £ Yes £ No		

C. Planning and Zoning

C.1. Planning and zoning actions.
Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? £ Yes ¢ No · **If Yes**, complete sections C, F and G. · **If No**, proceed to question C.2 and complete all remaining sections and questions in Part 1.
C.2. Adopted land use plans.
a. Do any municipally adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located?[1] (**See also Attachments A, "Consistency of the Proposed Project and Conceptual Master Plan with the MFM District Requirements," and E, "Land Use, Zoning, and Community Character")** ¢ Yes £ No If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ¢ Yes £ No
b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway Brownfield Opportunity Area [BOA]; designated State or Federal heritage area; watershed management plan; or other?) £ Yes ¢ No If Yes, identify the plan(s): _____
c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? £ Yes ¢ No If Yes, identify the plan(s): _____

[1] The Town of Hempstead does not have a comprehensive/master plan; since the Town of Hempstead does not have a comprehensive plan, the Building Zone Ordinance (including the legislative intent of each zoning district), acts as the de facto comprehensive plan.

C.3. Zoning – (See also Attachments A, "Consistency of the Proposed Project and Conceptual Master Plan with the MFM District Requirements," and E, "Land Use, Zoning, and Community Character")

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance? ¢ Yes £ No

If Yes, what is he zoning classification(s) including any applicable overlay district?

The site is within the Town of Hempstead Mitchel Field Mixed-Use (MFM) District, Sections 146.1 et seq. of the Town of Hempstead Building Zone Ordinance.

b. Is the use permitted or allowed by a special or conditional use permit? ¢ Yes £ No

c. Is a zoning change requested as part of the proposed action? £ Yes ¢ No

If Yes,

i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? **Uniondale Union Free School District**

b. What police or other public protection forces serve the project site?

Nassau County Police Department Third Precinct

c. Which fire protection and emergency medical services serve the project site?

Uniondale Fire District

d. What parks serve the project site?

The 930±-acre Eisenhower Park, in the hamlet of East Meadow, is a Nassau County-owned facility, located approximately 1/2 mile east of the project site and the 49-acre County-owned Mitchel Athletic Complex is located across from the project site on Charles Lindbergh Boulevard. There are also smaller neighborhood parks and athletic fields in the surrounding area. The County-owned Francis T. Purcell Preserve is located approximately 500 feet east of the project site.

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)?

Renovation and upgrade of the existing Coliseum and new retail, recreational, and entertainment uses

b. a. Total acreage of the site of the proposed action? **±77 acres**[1]

b. Total acreage to be physically disturbed? **±48.5 acres**[2]

c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? **77 acres**[3]

c. Is the proposed action an expansion of an existing project or use? £ Yes ¢ No

i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? Units:

d. Is the proposed action a subdivision, or does it include a subdivision? £ Yes ¢ No

If Yes,

i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

_____

ii. Is a cluster/conservation layout proposed? £ Yes £ No

iii. Number of lots proposed? _____

iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will proposed action be constructed in multiple phases? (**See also Attachment G, "Construction"**) £ Yes ¢ No

i. If No, Anticipated period of construction: **±18 months**[4]

ii. If Yes:

- Total number of phases anticipated: _____
- Anticipated commencement date of phase 1 (including demolition) _____ month ____year
- Anticipated completion date of final phase _____ month ____year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases:

[1] The site of the proposed action is the 77-acre Coliseum parcel.
[2] The total acreage to be physically disturbed includes the footprints of the proposed new buildings, plaza, and grass areas.
[3] The applicant has a lease agreement with Nassau County to take full possession of the site on August 1, 2015.
[4] As required by the lease, the Coliseum improvements as well as approximately 188,000 sf of cinema, retail, restaurant, and recreation use would be constructed first, followed by the remaining approximately 200,000 sf of retail and recreation use.

f. Does the project include new residential uses? £ Yes ¢ No

If Yes, show number of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase	_____	_____	_____	_____
At completion of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? ¢ Yes £ No

If Yes,

i. Total number of structures: **12 new buildings**

ii. Dimensions (in feet) of largest proposed structure: **±40'** height; ±**160'** width; and ±**321'** length **(the ±99,000-sf retail building)**

iii. Approximate extent of building space to be heated or cooled: **±804,000 square feet (includes the existing 416,000-sf Coliseum, 170,000 sf of new retail space, a 60,000-sf movie theater, 38,000 sf of restaurant space, and 120,000-sf of recreational space)**

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? £ Yes ¢ No

If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: £ Ground Water £ Surface water streams £ Other specify:

_____

iii. If other than water, identify the type of impounded/contained liquids and their source.

_____

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

_____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading, or installation of utilities or foundations where all excavated materials will remain onsite) ¢ Yes £ No

If Yes:

i. What is the purpose of the excavation or dredging? **General site preparation and new building foundations**

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): ±**16,742 CY (25,113 tons)**
- Over what duration of time? ±**9 months**

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, managed or dispose of them.

Earth and sediments to be disposed of off-site.

iv. Will there be onsite dewatering or processing of excavated materials? £ Yes ¢ No
If yes, describe.

_____

v. What is the total area to be dredged or excavated? ±**48.5** acres

vi. What is the maximum area to be worked at any one time? ±**15-20** acres

vii. What would be the maximum depth of excavation or dredging? **±12** feet

viii. Will the excavation require blasting? £ Yes ¢ No

ix. Summarize site reclamation goals and plan:

Stockpile topsoil for reuse in new landscaped areas; mill asphalt pavement for reuse on site under new pavement.

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? £ Yes ¢ No

If Yes,

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description):

_____

ii. Describe how the proposed action would affect that water body or wetland, e.g., excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

_____

iii. Will proposed action cause or result in disturbance to bottom sediments? £ Yes £ No

If Yes, describe: _____

iv. Will proposed action cause or result in the destruction or removal of aquatic vegetation? £ Yes £ No

If Yes:

- area of vegetation proposed to be removed _____
- expected acreage of aquatic vegetation remaining after project completion _____
- purpose of proposed removal (e.g., beach clearing, invasive species control, boat access): _____
- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance:

_____

c. Will the proposed action use, or create a new demand for water? **(See also Attachment C, "Water Resources")** ¢ Yes £ No

If Yes:

i. Total anticipated water usage/demand per day: **-1,943 gpd**

ii. Will the proposed action obtain water from an existing public water supply? ¢ Yes £ No

If Yes:

- Name of district or service area:
- Does the existing public water supply have capacity to serve the proposal? ¢ Yes £ No
- Is the project site in the existing district? ¢ Yes £ No
- Is expansion of the district needed? £ Yes ¢ No
- Do existing lines serve the project site? ¢ Yes £ No

iii. Will line extension within an existing district be necessary to supply the project? £ Yes ¢ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____
- Source(s) of supply for the district:

iv. Is a new water supply district or service area proposed to be formed to serve the project site? £ Yes ¢ No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project:

_____

vi. If water supply will be from wells (public or private), maximum pumping capacity:

d. Will the proposed action generate liquid wastes? ¢ Yes £ No

If Yes:

i. Total anticipated liquid waste generation per day: **±95,330 gallons/day (The proposed project would result in a reduction of approximately 1,943 gpd compared with the future baseline condition).**

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each):

Sanitary wastewater

iii. Will the proposed action use any existing public wastewater treatment facilities? ¢ Yes £ No

If Yes:

- Name of wastewater treatment plant to be used: **Cedar Creek Water Pollution Control Plant**
- Name of district: **Roosevelt Industrial Area Sewer District**
- Does the existing wastewater treatment plant have capacity to serve the project? ¢ Yes £ No
- Is the project site in the existing district? ¢ Yes £ No
- Is expansion of the district needed? £ Yes ¢ No
- Do existing sewer lines serve the project site? ¢ Yes £ No
- Will line extension within an existing district be necessary to serve the project? £ Yes ¢ No

  If yes:
  - Describe extensions or capacity expansions proposed to serve this project:

    _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? £ Yes ¢ No

If Yes:

- Applicant/sponsor for new district:_____
- Date application submitted or anticipated:_____
- What is the receiving water for the wastewater discharge?_____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge, or describe subsurface disposal plans):

_____

vi. Describe any plans or designs to capture, recycle or reuse liquid waste

The proposed project would comply with the MFM District zoning regulations, which require that "all development proposals include sustainable site and building practices regarding design, construction methods, and post-construction operation and maintenance of a proposed project to quantifiably decrease anticipated energy demand, water use, generation of solid and liquid waste, stormwater run-off, and the use of private cars, and to preserve and protect the natural resources, air quality and water supply of the Town of Hempstead. Such measures shall be part of the application for Conceptual Master Plan approval and all proposed site and building plans." Specifically, the Coliseum renovation would include upgrades to the building's antiquated systems, including the installation of new, low-flow plumbing fixtures and waterless urinals. See Attachment A, "Consistency of the Proposed NEC Project with the MFM District Requirements."

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e., ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e., sheet flow) during construction or post construction? (**See also Attachments D, "Stormwater Management" and G, "Construction")** ¢ Yes £ No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

___-_ Square feet or _ acres (impervious surface) **No additional impervious surface**[1]

___-_ Square feet or _ acres (parcel size)

ii. Describe types of new point sources

None.

iii. Where will the stormwater runoff be directed (i.e., on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

Stormwater runoff will be directed to the existing stormwater collection system.

- If to surface waters, identify receiving water bodies or wetlands: _____
- Will stormwater runoff flow to adjacent properties? £ Yes ¢ No

iv. Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? £ Yes ¢ No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? **Boilers to heat approximately 388,000 sf of new retail and entertainment space.** ¢ Yes £ No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

[1] The project site includes approximately 69 acres of impervious surface. The proposed project would not increase the impervious surface on the project site. The proposed project would result in a decrease in impervious coverage on the project site by approximately 1.87 acres, which would be replaced with landscaping.

g. Will any air emission sources in D.2.f (above) require a NY State Air Registration, Air Facility Permit, or federal Clean Air Act Title IV or Title V permit? £ Yes ¢ No

If Yes,

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) £ Yes £ No

ii. In addition to emissions as calculated in the application, the project will generate:

- ___Tons/year (metric) of Carbon Dioxide (CO_2)
- ___Tons/year (metric) of Nitrous Oxide (N_2O)
- ___Tons/year (metric) of Perfluorocarbons (PFCs)
- ___Tons/year (metric) of Sulfur Hexafluoride (SF_6)
- ___Tons/year (metric) of Carbon Dioxide equivalent of Hydroflorocarbons (HCFS)
- ___Tons/year (metric) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities? £ Yes ¢ No

If Yes,

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring):

_____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? £ Yes ¢ No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

_____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? (**See also Attachment F, "Transportation and Parking")** ¢ Yes £ No

If Yes:

i. When is the peak traffic expected (check all that apply): £ Morning ¢ Evening ¢ Weekend
Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of semi-trailer truck trips/day: ±**136 (68 in + 68 out)**

iii. Parking spaces: Existing ±**6,786**[1] Proposed: ±**5, 668** Net increase/decrease: ±**1, 118**[2]

iv. Does the proposed action include any shared use parking? ¢ Yes £ No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:
The proposed project would signalize the intersection of Charles Lindbergh Boulevard and James Doolittle Boulevard and introduce a left-turn movement from Charles Lindbergh Boulevard westbound into the site and a channelized right-turn exit from the site onto Charles Lindbergh Boulevard eastbound. In addition, the proposed project would create a new access point to the site along Hempstead Turnpike at Gilroy Avenue and signalize the new intersection at this location to introduce a left turn from Hempstead Turnpike eastbound into the site, along with an entrance/exit from Hempstead Turnpike westbound (via right turns only). The proposed project would also include signal adjustments and lane designation changes at various intersections, described in more detail in Attachment F.

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ¢ Yes £ No

vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? **The project site is presently served by existing local bus routes which pick up/drop off on Hempstead Turnpike across from the Coliseum.** ¢ Yes £ No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? **The proposed project includes an open pedestrian plaza and walkways. There is a painted bicycle lane on James Doolittle Boulevard in both directions. Bike racks would be provided on-site.** ¢ Yes £ No

[1] DGEIS for the Lighthouse at Long Island, June 2009.
[2] The proposed project would provide more spaces than the peak shared parking demand (see Attachment F, "Transportation and Parking").

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ¢ Yes £ No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: **83,924,400 MBtu (1,000 Btus)**[1]

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):

It is anticipated that the proposed project would draw power from the existing infrastructure (the Central Utility Plant currently serving the Coliseum and environs).

iii. Will the proposed action require a new, or an upgrade to, an existing substation? £ Yes ¢ No

l. Hours of operation. Answer all items which apply.

i. During Construction: (**See also Attachment G, "Construction")**

- Monday – Friday: **7 AM to 6 PM**
- Saturday:
- Sunday:
- Holidays: _____

ii. During Operations:[2]

- Monday – Friday: **9 AM – 12 AM**
- Saturday: **9 AM – 12 AM**
- Sunday: **9 AM – 12 AM**
- Holidays: **9 AM – 12 AM**

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ¢ Yes £ No

If Yes:

i. Provide details including sources, time of day and duration:

The potential operational noise sources consist of site-generated traffic and special events at the Coliseum that may occur during the hours listed above. There is currently event-related traffic noise in the vicinity of the project site associated with the existing indoor and outdoor activities at the Coliseum. Construction noise would primarily result from the operation of equipment and truck traffic associated with the labor force and delivery and removal of supplies/materials. Construction noise would be temporary and may occur during the construction hours listed above. Blasting is not anticipated. See also Attachment G, "Construction."

ii. Will proposed action remove existing natural barriers that could act as a noise barrier or screen? £ Yes ¢ No

Describe:

n. Will the proposed action have outdoor lighting? ¢ Yes £ No

If Yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

Site lighting for parking areas would be directional and designed for safety purposes.

ii. Will proposed action remove existing natural barrier that could act as light barrier or screen? £ Yes ¢ No

Describe:

o. Does the proposed action have the potential to produce odors for more than one hour per day? £ Yes ¢ No

If yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

p. Will the proposed action include any bulk storage of petroleum (over 1,100 gallons) or chemical products (over 550 gallons)? ¢ Yes £ No

If Yes,

i. Product(s) to be stored: **According to the 2015 Phase I ESA[3], the existing facility includes a 1,000-gallon diesel UST, two 55-gallon drums of gear oil, three 55-gallon drums of motor oil, two 55-gallon drums of waste oil, and four 55-gallon drums of ethylene glycol. There are no modifications to the existing storage as a result of the proposed project with the exception of the existing ice generating/cooling system, which may be decommissioned or upgraded during operation of the proposed project.**

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally describe proposed storage facilities

See item p.*i*, above.

q. Will the proposed action (commercial, industrial and recreational project only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ¢ Yes £ No

If Yes:

i. Describe proposed treatment(s):

Routine landscape maintenance.

ii. Will the proposed action use Integrated Pest Management Practices? £ Yes ¢ No

[1] This is the net increase in anticipated energy demand over the future baseline condition (assumes a Coliseum in the No Build condition with approximately 416,000 square feet).

[2] Event conditions could be later.

[3] Phase I Environmental Site Assessment, 1255 Hempstead Turnpike, Uniondale, New York, Roux Associates, March 2015.

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ¢ Yes £ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: ±**6** tons per **day** (unit of time)
- Operation: **±200 tons per month**[1] (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction:
  Roll-off containers for source separation for metals and cardboard; stockpile topsoil for reuse in new landscaped areas; mill asphalt pavement for reuse on site under new pavement.
- Operation:
  On-site collection of recyclable materials.

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction:
  Off-site disposal facilities and recycling centers.
- Operation:
  Covanta Hempstead Company, 600 Merchants Concourse, Westbury, NY 11590

s. Does the proposed action include construction or modification of a solid waste management facility? £ Yes ¢ No

If Yes:

i. Type of management or handling or waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons'hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? £ Yes ¢ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility:

ii. Generally describe processes or activities involving hazardous waste or constituents:

iii. Specify amount to be handled or generated: ____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents:

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? £ Yes £ No

If Yes: provide name and location of facility:

If No: Describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

[1] This is the increment over the future baseline condition.

E. Site and Setting of Proposed Action

E.1 Land uses on and surrounding the project site

a. Existing land uses.

i. Check all land uses that occur on, adjoining and near the project site.

£ Urban £ Industrial ¢ Commercial ¢ Residential (suburban) £ Rural (non-farm)
£ Forest £ Agriculture £ Aquatic ¢ Other (specify): **The site is occupied by the Coliseum and associated surface parking. The Francis T. Purcell Preserve is located approximately 500 feet east of the project site.**

ii. If mix of uses, generally describe:

Land uses within ¼ mile of the project site include open space/recreational, residential, hotel, office, educational, and utility.

b. Land uses and cover types on the project site.

Land use or cover type	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
· Roads, buildings, and other paved or impervious surfaces	**±68.87**	**±67.00**	**-1.87**
· Forested			
· Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)			
· Agricultural (includes active orchards, field, greenhouse, etc.)			
· Surface water features (lakes, ponds, streams, rivers, etc.)			
· Wetlands (freshwater or tidal)			
· Non-vegetated (bare rock, earth or fill)			
· Other Describe: Landscaping _____	**±7.76**	**±9.62**	**+1.87**

c. Is the project site presently used by members of the community for public recreation? £ Yes ¢ No

i. If yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ¢ Yes £ No

If Yes:

i. Identify Facilities:

Portions of Nassau Community College and Hofstra University campuses.

e. Does the project site contain an existing dam? £ Yes ¢ No

If Yes:

i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____

iii. Provide date and summarize results of last inspection:

_____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? £ Yes ¢ No

If Yes:

i. Has the facility been formally closed?

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

_____

iii. Describe any development constraints due to the prior solid waste activities:

_____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store, and/or dispose of hazardous waste? ¢ Yes £ No

If Yes: (**See also Attachment B, "Geology, Subsurface Conditions, Soils and Topography")**

i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

The Phase I ESA[1] identified the project site as being located within Mitchel Field, formerly a military airbase, which occupied the area from as early as 1918, and was used as an airfield during WWII until the area was turned over to Nassau County in the early 1960s. According to the Phase I ESA, portions of the airfield that are known to have contributed to releases resulting in Mitchel Field's consideration as a Hazardous Waste Registry (HWR)/Environmental Remediation Database (ERD) facility are located off-Site to the northwest of the Nassau Coliseum and parking lots. Hazardous substances were not identified in significant quantities during previous Phase II ESAs. Low-level exceedances of unrestricted use criteria of polychlorinated biphenyls (PCBs) were detected and may be attributable to former Site use as a military airbase; however, the occurrence and concentration of these exceedances are not associated with the Mitchel Field Superfund Site. According to the hazardous waste database, an overall environmental assessment for the HWR site has not yet been made. On December 21, 2009, the Army Corps of Engineers completed an assessment to determine the presence of military munitions or the components of military munitions. The assessment did not identify any unacceptable risks to human or ecological receptors.

Mitchel Field is listed twice on the NYSDEC Environmental Site Remediation Database. The first listing is for Site #130014 (NYD170009000), Purex-Mitchell Field, located on Commercial Avenue in Garden City, which is located more than one mile northwest of the site. The second listing is for Site #130112, Mitchell Field (see answer to "h" below).

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ¢ Yes £ No

If Yes: **(See also Attachment B, "Geology, Subsurface Conditions, Soils and Topography")**

i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ¢ Yes £ No

¢ Yes – Spills Incidents database Provide DEC ID number(s): **8701759, 8702169, 9312784, 0125233, 0205085, and 1108003**

¢ Yes – Environmental Site Remediation database Provide DEC ID number(s): **130112**

£ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures:

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database?[2] ¢ Yes £ No

If yes, provide DEC ID number(s):

130112

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

NYSDEC Spill #'s 8701750 and 8702169 were closed on Feb. 24, 1989; NYSDEC Spill #9312784 was closed on Jan. 30, 1994; NYSDEC Spill #0125233 was closed on Oct. 22, 2001; NYSDEC Spill #0205085 was closed on Nov. 5, 2002; and NYSDEC Spill #1108003 was closed on Apr. 5, 2012. Site #130112 is the Mitchell Field State Superfund Site, Class P. An overall environmental assessment for this site has not yet been made. On December 21, 2009, the Army Corps of Engineers completed an assessment to determine the presence of military munitions or the components of military munitions. The assessment did not identify any unacceptable risks to human or ecological receptors.

v. Is the project site subject to an institutional control limiting property uses? £ Yes ¢ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? £ Yes £ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? **±930 feet**

b. Are there bedrock outcropping on the project site? £ Yes ¢ No

If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site:

Urban Land (Ug)	**~95%**
Hempstead silt loam (He)	**~5%**

[1] Phase I Environmental Site Assessment, 1255 Hempstead Turnpike, Uniondale, Hempstead, New York, Roux Associates, March 2015.

[2] The DEC EAF Mapper results indicate that the project site is within 2,000 feet of a DEC Remediation Site. However, that remediation site (Site #130112) actually encompasses a portion of the project site according to the NYSDEC Environmental Site Remediation Database. Therefore, Site #130112 was identified in the response to question E.1.h.i., which asks whether any portion of the project site itself is listed on the Environmental Site Remediation Database.

d. What is the average depth to the water table on the project site? **Average: ±30 feet**

e. Drainage status of project site soils:
- ¢ Well Drained: **100**% of Site
- £ Moderately Well Drained: ___% of Site
- £ Poorly Drained: ___% of Site

f. Approximate proportion of proposed action site with slopes: :
- ¢ 0-10%: **99.3%** of Site
- ¢ 10-15%: **0.3%** of Site
- ¢ 15% or greater: **0.4%** of Site

g. Are there any unique geologic features on the project site? £ Yes ¢ No

If Yes, describe:

_____

h. Surface water features:

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? £ Yes ¢ No

ii. Do any wetlands or other waterbodies adjoin the project site?[1] £ Yes ¢ No

If Yes to either I or ii, continue. If No, skip to E.2.1.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? £ Yes £ No

iv. For each identified wetland and waterbody on the project site, provide the following information.

- Streams: Name _____ Classification_____
- Lakes or Ponds: Name _____ Classification_____
- Wetlands: Name _____ Approximate Size_____

  Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? £ Yes £ No

If yes, name of impaired water body/bodies and basis for listing as impaired:

_____

i. Is the project site in a designated Floodway? £ Yes ¢ No

j. Is the project site in the 100 year Floodplain? £ Yes ¢ No

k. Is the project site in the 500 year Floodplain? £ Yes ¢ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ¢ Yes £ No

If Yes:

i. Name of aquifer: **Nassau-Suffolk Sole Source Aquifer**

ii. Source of information: **http://www.epa.gov/region2/water/aquifer/, last accessed October 31, 2013**

m. Identify the predominant wildlife species that occupy or use the project site:

No wildlife species were observed on-site, and few species are expected, given the level of development and fragmentation both on the subject property and in the surrounding area. Only species that are tolerant of human activity and common to urbanized habitats, such as sparrows, blue jays, crows and squirrels, are likely to be present on this parcel, particularly in light of the existing level of human disturbance, including noise from the surrounding roadways.[2]

[1] The DEC EAF Mapper results indicate that there are wetlands or other waterbodies adjoining the project site. However, according to the DGEIS for the Lighthouse on Long Island and based on site reconnaissance, the nearest freshwater wetland is East Meadow Brook, which is part of a larger linear wetland that generally extends along the Meadowbrook Parkway from the Francis T. Purcell Preserve on the north to Merrick Road on the south. East Meadow Brook is also the nearest waterbody to the project site, to the east of the Marriott Hotel parcel and James Doolittle Boulevard. Also, there are no tidal wetlands on the project site. While the National Wetlands Inventory map depicts another wetland in closer proximity to the project site, but still not on the project site, this wetland is actually a Nassau County recharge basin, located south of Hempstead Turnpike, according to the Lighthouse at Long Island DGEIS (see Figures 3.2-7 and 3.2-8 from the DGEIS). Measures to manage stormwater on-site during construction and post-construction would be in place to ensure that surface waters and sensitive areas near the project site (e.g., Hempstead Plains, wetlands) would not receive runoff from the project site (see Attachment D).

[2] DGEIS for the Lighthouse at Long Island, June 2009.

n. Does the project site contain a designated significant natural community?[1] £ Yes ¢ No

If Yes,

i. Describe the habitat/community (composition, function, and basis for designation):

_____

ii. Source(s) of description or evaluation: _____

iii. Extent of community/habitat:

- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species?[2] £ Yes ¢ No

If Yes:

i. Species and listing (endangered or threatened):

_____

ii. Nature of use of site by the species (e.g., resident, season, transient): _____

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? £ Yes ¢ No

If Yes:

i. Species and listing: _____

ii. Nature of use of site by the species (e.g., resident, seasonal, transient):

_____

q. Is the project site or adjoining area currently used for hunting, trapping, fishing, or shell fishing? £ Yes ¢ No

If yes, give a brief description of how the proposed action may affect that use:

_____

E.3. Designated Public Resources On or Near the Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Marks Law, Article 25-AA, Sections 303 and 304? £ Yes ¢ No

If Yes, provide county plus district name/number: _____

b. Are agricultural lands consisting of highly productive soils present? £ Yes ¢ No

i. If Yes: acreage(s) on project site? _____

ii. Source(s) of soil rating(s) _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? £ Yes ¢ No

If Yes:

i. Nature of the natural landmark: £ Biological Community £ Geological Feature

ii. Provide brief description of landmark, including values behind designation and approximate size/extent:

_____

d. Is the project site located in or does it adjoin a state-listed Critical Environmental Area? £ Yes ¢ No

If Yes:

i. CEA name: _____

ii. Basis for designation: _____

iii. Designating agency and date: _____

[1] The DEC EAF Mapper results indicate that the Hempstead Plains Grassland natural community (37.03 acres) exists on the project site. However, according to the DGEIS for the Lighthouse on Long Island and based on site reconnaissance, there are no native grasslands on the project site. The nearest Hempstead Plains Grasslands are located north of Charles Lindbergh Boulevard, south of Hempstead Turnpike, and east of the Marriott Hotel parcel (see Figure 3.4-1 from the DGEIS). The Friends of Hempstead Plains at Nassau Community College (www.friendsofhp.org) has an established conservation program supported by a wide range of local governments and non-governmental organizations. The existing conservation program supports the conclusion that the proposed project would not have a significant adverse impact on the Hempstead Plains, consistent with past findings supporting the MFM District.

[2] The DEC EAF Mapper results indicate that there are endangered species on the project site; however, according to the DGEIS for the Lighthouse at Long Island (page 3.4-1) and based on site reconnaissance, this information is not correct. No endangered species have been identified in association with the project site. Since the project site is completely developed and nearly 90 percent impervious, and given the level of fragmentation and disturbance on the project site and in the surrounding area, only species that are tolerant of human activity and common to urbanized areas would be expected on this parcel.

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on, the State of National Register of Historic Places? ☐ Yes ■ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District

ii. Name: _____

iii. Brief description of attributes on which listing is based:

_____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☐ Yes ■ No

g. Have additional archaeological or historic site(s) or resourced been identified on the project site? ☐ Yes ■ No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Would the project site be visible from any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ■ Yes ☐ No

If Yes"

i. Identify resource: **The Coliseum is visible from the Nassau County-owned Francis T. Purcell Preserve.**

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): **local park**

iii. Distance between project and resource: **±1/10 miles**

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ■ No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contain in 6 NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information

Attach any additional information which may be needed to clarify your project. **See Attachments A through G.**
If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Bruce Ratner Date 4/10/15

X Signature _____ Title Chairperson

Recognizing the need to redevelop the Nassau Veterans Memorial Coliseum (hereinafter the "Coliseum") site, on March 12, 2013, Nassau County issued a request for proposals for the redevelopment of the approximately 77-acre Coliseum site. On August 15, 2013, Nassau Events Center, LLC (NEC), an affiliate of Forest City Enterprises, Inc., was selected by Nassau County to redevelop the Coliseum site.

The Proposed NEC Project consists of improvements to the 416,000-square-foot (sf) Coliseum, with a reduction in seats from approximately 17,700 to approximately 13,000. The 13,000-seat capacity would only be reached by a minimal number of specific events, such as sold out concerts in a 360 degree stage configuration, or sold out professional hockey matches (currently estimated to be between 5 percent and 10 percent of the events per year). Many of the events being planned for the Coliseum will utilize a theater configuration with capacity under 6,000, or in the case of minor league sporting events or family shows, draw an average crowd size of less than 10,000 patrons. However, this EAF conservatively considers a reasonable worst case attendance of 13,000. The plan also includes the creation of new restaurants, a movie theatre, and other attractions and public amenities in the area surrounding the Coliseum. The proposed development is anticipated to include approximately 170,000 sf of new retail space, 38,000 sf of restaurant space and a 60,000-sf, 1,500-seat movie theatre. In addition, the proposed project includes 120,000-sf of recreational space. The proposed development also anticipates a large, open pedestrian plaza with a grass area and a prominent memorial to veterans. The total amount of development (existing and new) in and around the Coliseum parcel is anticipated to be 804,000 sf, upon implementation of the proposed project.

SITE HISTORY

The Coliseum and surrounding property is located on a portion of what was previously the ±1,100-acre Air Force Base at Mitchel Field. Mitchel Field comprises most of what is today East Garden City and part of Uniondale. The history of Mitchel Field began in the early 1900s and is continuing to evolve. Long Island has a long and storied aviation history, and Mitchel Field was one of the most important air fields located on Long Island in the early part of the 20th century.

Due to Mitchel Field's location in an urban area, there were several problems with operating tactical aircraft. Ultimately, Mitchel Field was closed and turned over to Nassau County in 1961 due to public pressure, small size, noise, and several crashes.

According to its website,[1] after the County received the land from the federal government, many proposals were put forth for the redevelopment of this area. Some of the recommendations included a civic center, a large central library, residential housing, museum and cultural center. After consideration of these recommendations, the result was to build a 15,000 seat arena (additional seats were added from 1981-1984 that increased the seating capacity to its current

[1] http://www.nassaucoliseum.com/ViewArticle.dbml?DB_OEM_ID=24410&ATCLID=204936447

level). The arena was built at the cost of $32 million, and was dedicated to those who had made the supreme sacrifice for their country—hence the name Nassau Veterans Memorial Coliseum. The Coliseum was officially opened and dedicated on May 29, 1972. Since the opening of the arena, multiple attempts have been made to redevelop the overall site.

Nassau County still owns much of the property that was once Mitchel Field (and which comprises the project site), but the zoning is under the jurisdiction of the Town of Hempstead.

In response to the concerns relative to a proposal to redevelop the site, after a comprehensive environmental review process, in 2011, the Town of Hempstead adopted the Mitchel Field Mixed-Use (MFM) District and applied this zoning district to the Coliseum site. The MFM District requirements and how the current proposal conforms to same are discussed later in this Attachment. The subsection below discusses, among other things, the history of the MFM District and the environmental review process conducted therefor.

PRIOR NASSAU COUNTY RFP AND HISTORY OF MFM DISTRICT

On August 12, 2005, Nassau County issued an RFP entitled "Request for Proposals for the Redevelopment of the Nassau Veterans Memorial Coliseum Site" to solicit alternative competitive opportunities for the disposition of the Coliseum parcel. After the review of responses to the RFP, Nassau County selected Lighthouse Development Group, LLC (LDG) to redevelop the Coliseum property. LDG was led by Charles Wang, the owner of the New York Islanders. LDG's redevelopment application proposed the following:

- Transformed Coliseum/Sports Complex consisting of 1,203,000 square feet and 20,000 seats. The Sports Complex was proposed to be 371,500 square feet of the total 1,203,000 square feet and consist of basketball courts, a fitness and recreation center and ice rinks. The Coliseum was proposed to also house ground-level retail/entertainment and restaurant facilities.
- 2,306 residential units including next-generation units, units for seniors and units for students of surrounding colleges, as well as market-rate and luxury residences.
- Renovation of the existing 466,000 square foot, 617-room Marriott Hotel and Conference Center.
- A new 308,456 square foot, five-star hotel with 300 guest rooms and 368 luxury condominiums. The hotel was proposed to provide convention, exhibition, and meeting spaces, as well as a spa/fitness center, restaurant and lounges.
- 500,000 square feet of retail space, consisting of 435,000 square feet of retail development and a 65,000 square foot, 2,600-seat cinema.
- 1,000,000 square feet of Class A office spaces within four new buildings, including a Sports Technology Center.
- Celebration Plaza (a central green space), open spaces, parks and plazas for passive and active recreational uses and outdoor performances.

An extensive State Environmental Quality Review Act (SEQRA) process was conducted, and a Draft Generic Environmental Impact Statement for the Lighthouse at Long Island project (hereinafter "Lighthouse DGEIS") was accepted as complete by the Town Board on June 29, 2009. A public hearing on the Lighthouse DGEIS was held by the Town of Hempstead Town Board on August 4, 2009. A zoning hearing was conducted by the Town Board in September of 2009, and LDG submitted a Final Generic Environmental Impact Statement (FGEIS) in

September 2009. Due to concerns of the Town and the community regarding the scope and scale of the Lighthouse project, the Town Board retained a consultant to assist the Town in preparing its own FGEIS. The Town's FGEIS, filed by the Town Board in May of 2011, introduced and analyzed the MFM District. The FGEIS determined, in pertinent part, that the adoption of the MFM District and development in accordance therewith would address the issues of concern raised by the Town and the community with respect to redevelopment of the Coliseum site. A Findings Statement was adopted by the Town Board on June 9, 2011, and the Town Board adopted the MFM District later that month. The Lighthouse project did not comply with the MFM District, and that redevelopment effort ceased.

The MFM District allows the following uses:

- Arena, convention center, exhibition facility or theater(s), and similar entertainment uses as may be approved by the Town Board.
- Hotel or conference center.
- Offices, bank or financial institution.
- Medical or dental office or clinic.
- Store for the sale, at retail, of articles to be used off the premises, except that a freestanding retail building shall not exceed 100,000 square feet of floor area.
- Restaurant, cafe or luncheonette, excluding a diner, lunch wagon, drive-in restaurant, drive-in luncheonette, drive-in counter or drive-in refreshment stand.
- Personal service establishment, such as retail hand laundry, custom tailoring, hand dressmaking or shoe repairing.
- Research and development facilities.
- Hospital.
- Public school, parochial school, private school for the instruction of elementary grades, academic grades, or both, chartered by the Board of Regents of the State of New York; college or university; music, dancing or other instructional school; dormitory for educational institutions.
- Senior citizen congregate-care facility or nursing home.
- Day-care facility.
- Health club or spa.
- Club, fraternal organization, lodge or philanthropic use.
- Townhouse and multiple-family dwellings containing no more than six dwelling units per building.
- Post office, library or other municipal building.
- Religious uses.
- Noncommercial park, recreational and open space uses.
- Public transportation facilities.

The Town's FGEIS evaluated the MFM District using, for analysis purposes, the following level of development, which would be permitted, based upon the use, bulk and dimensional

regulations outlined in that zoning district. This scenario was described as the MFM District Alternative Development Scenario:[1]

- Coliseum/Arena: 416,000 sf
- Parking (structured): 2,269,322 sf
- Movie Theatre: 28,000 (2,012 seats)
- Restaurant: 90,500 sf
- Other retail/entertainment: 275,000 sf
- Office: 150,000 sf
- Convention facilities: 207,000 sf
- Hotel: 1,487,350 sf
- Residential: 468,000 sf.

3.1 million sf excluding parking

77 acres x 43,560 x 1.6 = 5.36 m sf

The total square footage of the NEC proposal, at 804,000 sf, is significantly less than the maximum level of development that would be permitted at the Coliseum site, in accordance with the MFM District. It was also significantly less than the maximum development potential analyzed in the Town's FGEIS.

NASSAU COLISEUM OPERATIONS

As noted above, the Coliseum opened its doors in 1972 and remains a fully functioning arena and exhibit space. As previously indicated, the Coliseum building is approximately 416,000 sf in size and rises approximately 57 feet – 11 inches above (to the top of the precast panels), according to the original construction drawings. The ice surface is located approximately 24 feet below the concourse level, making the total inside height approximately 82 feet. The property contains approximately 6,800 surface parking spaces. The building comprises the arena (with over 30 luxury suites), an exhibition hall (Expo Center), restaurant/pub, concession stands and a room that can be used for private parties. This facility, which has been a fixture in the central Nassau County/Uniondale community for the past 42 years, draws people from across the entire Long Island/Metropolitan New York region.

The arena and its surrounding parking area is home to the New York Islanders Hockey Team (41 home games plus pre-season and play-off games) until the end of the 2015 season, and hosts various events, including, but not limited to: numerous concerts, family shows, ice shows and sporting/entertainment events.

In addition to the New York Islanders games, there were 142 major event performances in 2006, 122 in 2007 and 106 in 2008 according to the Lighthouse DGEIS.

The Expo Center @ Nassau Coliseum is a 60,000 square foot hall that is located in the lower lobby of the Coliseum, underground, adjacent to the arena floor. The Expo Center is the host to many trade and consumer shows each year, as well as fairs and other events. These events account for approximately 35-50 event calendar days annually and attendance is well over 150,000 people per year in the Expo Center alone.[2]

[1] The MFM District includes the Coliseum property (the proposed project site), as well as the adjacent Marriott Hotel property, which is not part of the project site.

[2] (http://www.nassaucoliseum.com)

Potable water use for the Coliseum is approximately 97,273 gallons per day (gpd). The Coliseum is served by both the municipal water and sewer systems (Town of Hempstead Water Department and Nassau County Department of Public Works, respectively). Stormwater runoff that is generated by the existing building and paved parking areas (which constitute the majority of the site) is collected via an interconnected network of storm drains within the parking lot, which drains into County's recharge basin located south of Hempstead Turnpike.[1]

Regional access to the Coliseum is provided via Meadowbrook Parkway, a major north-south limited-access divided highway under the jurisdiction of the NYSDOT. Access to the Coliseum is also provided via Hempstead Turnpike (New York State Route 24).

The New York Islanders draw thousands of attendees for each of their 41 regular season home games. The NHL regular season runs from mid-October through mid-April and the Stanley Cup playoff schedule includes games from mid-April through the beginning of June. Average attendance for the 2010-11 season was 11,059, rising to 13,191 in 2011-12, 13,306 in 2012-13 and 14,740 in 2013-14 (to date). On average, the Islanders host a sell-out crowd for approximately 10 games per regular season. Based upon traffic counts taken at the Coliseum driveways during high attendance New York Islanders games in 2013, vehicle trip generation was as follows: 1,062 trips in the weekday afternoon peak hour, 4,633 trips in the weekday pre-event peak hour, and 3,693 trips in the Saturday midday peak hour.

CHARACTER OF THE SURROUNDING COMMUNITY

The character of the community surrounding the Coliseum is defined by a number of dominant land uses, each of which is characterized by differing physical sizes associated with that use. Other contributing factors such as landforms, surface waters and ecology, are not significant contributors to community character within the study area. The area is subject to noise characteristics of an urban/suburban environmental setting throughout most of the study area, and transportation systems (including the network of interchanges near the subject property) significantly contribute to community character within the study area. Nassau Community College (NCC), Hofstra University and the Francis T. Purcell Preserve grasslands are defining elements proximate to the subject property.

Meadowbrook Parkway is a major regional transportation artery that traverses the community in a north-south direction and is characterized by vehicular traffic of varying amounts throughout the day. The corridor provides a "parkway" setting which is considered to be an important feature of community character. With respect to visual character, this roadway is below surrounding grade in places, so that observers other than those driving on it cannot see it or the traffic it carries, and at other points it is elevated or exposed (by bridges) to observers.

Other examples of uses that define the character are the large, multi-story office and hotel buildings (including RXR Plaza, The Omni and the Marriott Hotel) in the areas north and south of the Coliseum, as well as by the larger taller buildings within the NCC and Hofstra University properties. These larger and taller structures are situated on larger properties set back from Hempstead Turnpike and the Meadowbrook Parkway (the major roadways in the area), but are still dominant factors in the visual landscape. The character of the community may be described as a mix of various land uses oriented along the two roadways, of which the larger uses (offices, institutional) are found on larger sites having deep setbacks, while the uses which require

[1] Lighthouse DGEIS

smaller sites (e.g., the detached residential lots south of Hempstead Turnpike and commercial sites along its southern side) are well-buffered by street trees that camouflage the larger uses to the north.

Overall, the character of the area surrounding the Coliseum is defined by its major land uses and manmade elements, as well as its importance as a gathering place for large groups of people, whether for recreational, entertainment, educational, business or celebratory functions.

CONCLUSION

The NEC proposal conforms to the use and dimensional requirements of the MFM District, and the level of development proposed is far less than that permitted under that district and that analyzed in the Town's FGEIS. In addition to various use and dimensional regulations, the MFM District requires that detailed plans be submitted as part of an application for conceptual master plan approval "to ensure an efficient development of uses that is architecturally and visually appealing. The guidelines are intended to encourage master plan elements that provide appropriate location, arrangement and design of buildings, parking areas and parking structures, and open space and site amenities to promote quality site, building and landscape design, and to integrate the architecture, landscape architecture and streetscape of the Mitchel Field Mixed-Use District." Also, according to the Town's Building Zone Ordinance, "the application for approval of a conceptual master plan for the Mitchel Field Mixed-Use District shall require a Shared Parking Analysis to be prepared by a qualified professional. The Town Board shall consider the Shared Parking Analysis to determine the overall parking requirement for the uses proposed in the conceptual master plan." Although the proposed action does not involve the entirety of the area that would be covered by a conceptual master plan, in accordance with MFM District requirements, the Applicant has prepared and submitted a conceptual master plan that demonstrates that the proposed action conforms to and does not preclude the future development of the site according to the general purposes and intent of Article XIII, Section 146.1 of the Building Zone Ordinance of the Town of Hempstead and will promote the general public health, safety and welfare of the members of the community.[1]

Moreover, the NEC proposal is far less intense than the prior development proposal for the Coliseum site. As noted above, the NEC proposal involves only 804,000 sf of development, with no residential uses. Since no residences are proposed, the NEC development would not generate a permanent population or any school-aged children. In addition, the water use and sanitary flow generated would be less than that associated with maximum development under the MFM District (as evaluated in the Town's FGEIS), and is also less than existing conditions. With respect to traffic, the trips generated from the Coliseum and retail project would be less than that associated with maximum development under the MFM District, as evaluated in the Town's FGEIS.

Moreover, the NEC development would realize the potential for the Coliseum site and would provide myriad benefits for the area, including approximately 960 construction jobs and approximately 1,000 direct on-site jobs at full site operation in 2017. The project is expected to generate 1,500 direct, indirect and induced jobs during the construction period and 1,400 direct, indirect and induced jobs during the operational period. Moreover, substantial public sector

[1] Relief will be necessary from certain conceptual master plan requirements, which is being requested from the Town Board.

revenues are also anticipated from the proposed project, estimated at approximately $12.47 million during the construction period and approximately $16.88 million annually, in addition to on-site arena revenues, including payments to the County ($4.4 million minimum payment or eight percent of revenue, plus relief from the burden of current Coliseum maintenance and repair costs), during operation. ✷

Attachment A: Consistency of the Proposed NEC Project with the MFM District Requirements

A. INTRODUCTION

This attachment assesses the consistency of the Proposed Nassau Events Center (NEC) Project ("the proposed project") with the MFM Mitchel Field Mixed-Use (MFM) District requirements. Descriptions of the project site and the MFM District requirements are provided, along with a description of the proposed project.

B. EXISTING CONDITIONS

PROJECT SITE

The project site (the "Coliseum property") occupies approximately 77 acres of the approximately 91-acre MFM District (see **Figure A-1**). Today, the project site includes the Nassau County Veterans Memorial Coliseum (the "Coliseum") with approximately 17,700 seats and associated surface parking (approximately 6,786[1] spaces). The Coliseum is home to the New York Islanders professional hockey team. In addition to the approximately 44 National Hockey League games played there each year, the Coliseum hosts large concerts, family events, and other sporting and entertainment events. Some of the events are staged in the parking lots adjacent to the Coliseum, and large expositions and trade shows are held in the Coliseum's below-grade Exhibition Hall, located in the northeast portion of the site. The Coliseum sits atop a partially landscaped pad and is surrounded by approximately 60 acres of surface parking. Although in need of repair and updating, it is a prominent, active recreational use in the County today, and has been since its opening in 1972.

MFM DISTRICT REQUIREMENTS

The MFM District was added to the Town of Hempstead Building Zone Ordinance by Local Law No. 54-2011, which became effective on June 28, 2011. The legislative intent is to allow the appropriate use and redevelopment of the Coliseum property, and the adjacent Marriott Hotel property, in a manner that will serve to further the purposes established in §135 for the Planned Development Districts at Mitchel Field, as well as to implement more specific purposes as described below. As noted in the legislative purpose of the Planned Development Districts of Mitchel Field, these zoning districts are intended to provide a zoning mechanism to facilitate a comprehensive planning process for development of the County-owned properties at Mitchel Field. It is also noted that the ordinance states "Each phase of development, as it progresses, should support and enlarge the use and enjoyment of prior development. The synergistic

[1] DGEIS for the Lighthouse at Long Island, June 2009.

influence of creative design and quality construction at each step will promote the ultimate ideal of environmental quality."

According to Article XIII, §146.1, the MFM District includes a number of requirements. Certain exceptions apply. **Table A-1** presents the bulk and dimensional requirements of the MFM District.

Table A-1
Bulk and Dimensional Requirements of the MFM District

Parameter	MFM District
Maximum Building Area	Residential: 35 percent
Maximum Floor Area Ratio	1.6
Maximum Height	Non-residential and mixed-use: 30 feet/2 stories[1]; Residential: 40 feet/3 stories
Front Yard	Non-residential and mixed-use: Minimum of 10 feet[2]; Residential: minimum of 25 feet[2]
Side Yards	Non-residential and mixed-use: Not generally required[3]; Residential: minimum of 20 feet[4]
Rear Yard	Non-residential and mixed-use: Minimum of 10 feet[5]; Residential: minimum of 25 feet

Notes:

[1] Except that on lots that contain two or more acres and have a lot depth in excess of 100 feet, no building shall exceed four stories in height or a maximum of 60 feet, provided that the Town Board finds during the conceptual master plan approval process that the height of the building would not adversely affect adjacent uses and the height is consistent with the legislative purposes of the Mitchel Field Mixed-Use District.

[2] In the case of a corner lot, a front yard shall be required on each street.

[3] For a building of a height that exceeds 60 feet, yards shall be provided along all street frontages and lot lines, the depth of which shall be not less than 20 feet for the first 60 feet of building height, facing thereon, with an increased setback of one foot for each three feet of height above 60 feet.

[4] Except where there are two or more buildings on a lot. In such a case, the minimum side yard requirement of 20 feet shall apply only along the side lot lines of the entire lot.

[5] The depth of the rear yard shall be increased five feet for each 10 feet or portion thereof by which the building exceeds 40 feet in height.

Sources: Town of Hempstead Building Zone Ordinance

Permitted uses in the MFM District, in addition to the Coliseum, include the following: arena, convention center, exhibition facility or theater, and similar entertainment uses; hotel or conference center; offices, banks, or financial institutions; medical or dental office or clinic; retail; restaurants; personal service establishments; research and development facilities; hospitals; public and private schools; nursing homes; daycare facilities; health club; fraternal organizations; multi-family dwellings; post office, library, or municipal building; religious uses; parks and recreational uses; and public transportation facilities. The zoning requires at least two permitted uses for each lot in the MFM District. There are also permitted accessory uses including open surface parking.

Other MFM District requirements that are applicable to the proposed project include green site and building requirements and design guidelines. In accordance with the MFM district regulations, "all development proposals shall include sustainable site and building practices regarding design, construction methods, and post-construction operation and maintenance of a proposed project to quantifiably decrease anticipated energy demand, water use, generation of solid and liquid waste, stormwater run-off, and the use of private cars, and to preserve and protect the natural resources, air quality and water supply of the Town of Hempstead. Such

Project Site Map

Figure A-1

NASSAU EVENTS CENTER PROJECT

measures shall be part of the application for conceptual master plan approval and all proposed site and building plans."

Moreover, "all development proposals shall include detailed plans as part of the application for conceptual master plan approval for architectural, streetscape and landscape design to ensure an efficient development of uses that is architecturally and visually appealing. The guidelines are intended to encourage master plan elements that provide appropriate location, arrangement and design of buildings, parking areas and parking structures, and open space and site amenities to promote quality site, building and landscape design, and to integrate the architecture, landscape architecture and streetscape of the Mitchel Field Mixed-Use District." Also, according to the Town's Building Zone Ordinance, "the application for approval of a conceptual master plan for the Mitchel Field Mixed-Use District shall require a shared parking analysis to be prepared by a qualified professional. The Town Board shall consider the shared parking analysis to determine the overall parking requirement for the uses proposed in the conceptual master plan."

The MFM District also includes other requirements pertaining to signs; off-street and on-street parking for non-residential uses; off-street loading zone/space/berth for non-residential uses; residential uses; fences and walls; public open space; public rights-of-way; and complete streets.

The MFM District also limits the number of allowable residential dwelling units in the district to 500. At least 20 percent of the total number of dwelling units must be affordable and/or next generation/workforce housing.

C. PROPOSED NEC PROJECT

PROPOSED NEC PROJECT

The proposed project, which requires approval of a conceptual master plan and site plan from the Town of Hempstead, is proposed to be in compliance with all applicable MFM District regulations and requirements.[1]

The Proposed NEC Project would be developed on a small portion of the project site that includes the existing Coliseum and plaza areas. It would feature a new, modern exterior façade for the Coliseum, bringing architectural significance to the site and creating a harmonious connection between the Coliseum and the adjacent retail development. Focusing on sports and family entertainment, the proposed project would become an anchor for any future development of the MFM District. The arrangement of the retail buildings around the Coliseum would concentrate height to the north and south, and frame the entrance to the Coliseum, creating a welcoming plaza and gathering place. The concentration of uses (restaurants, retail, and recreation/entertainment) would serve to extend the stay of visitors to the site, thereby lessening the intensity of incoming and outgoing traffic immediately before and after arena events. The proposed project is anticipated to create approximately 960 direct on-site jobs during construction and an additional 996 once the project is operational in 2017. Including direct, indirect and induced employment, the project would create a total of over 1,500 jobs in the County during construction and approximately 1,400 direct, indirect and induced jobs in Nassau County during the operational period. Substantial public sector revenues are also anticipated from the Proposed NEC Project, estimated at $12.47 million during the construction period and

[1] Relief will be necessary from certain conceptual master plan requirements, which is being requested from the Town Board.

approximately $16.88 million annually, in addition to arena on-site revenues, including payments to the County ($4.4 million minimum payment or 8 percent of revenue, plus relief from the burden of current Coliseum maintenance and repair costs), during operation.

The Proposed NEC Project includes improvements to the Coliseum, with a reduction in seats from approximately 17,700 to a maximum of 13,000 and the creation of new restaurants, a movie theater, and other attractions and public amenities. The proposed project is anticipated to include approximately 170,000 square feet (sf) of new retail space, 38,000 sf of restaurant space, a 60,000-sf movie theater (i.e. cinema), and 120,000-sf of recreational space. It also includes an open pedestrian plaza with a grass area and a prominent memorial (see **Figure A-2**).

The development program represents a subset of the total development contemplated in the district under the current zoning (see **Table A-2**). As such, the proposed project fits entirely within the potential development envelope analyzed under the Mitchel Field Mixed-Use (MFM) District Lower-Density Alternative (the "MFM District Alternative") in the *Final Generic Environmental Impact Statement (FGEIS) for "The Lighthouse at Long Island,"* May 3, 2011 (FGEIS for the Lighthouse at Long Island), which was the basis for the issuance of a Findings Statement and the ultimate creation of the MFM District. The FGEIS analyzed a development scenario ("MFM District Alternative Development Scenario") for the district in accordance with the then-proposed MFM District regulations, which were added to the Town of Hempstead Building Zone Ordinance in June 2011.

Table A-2

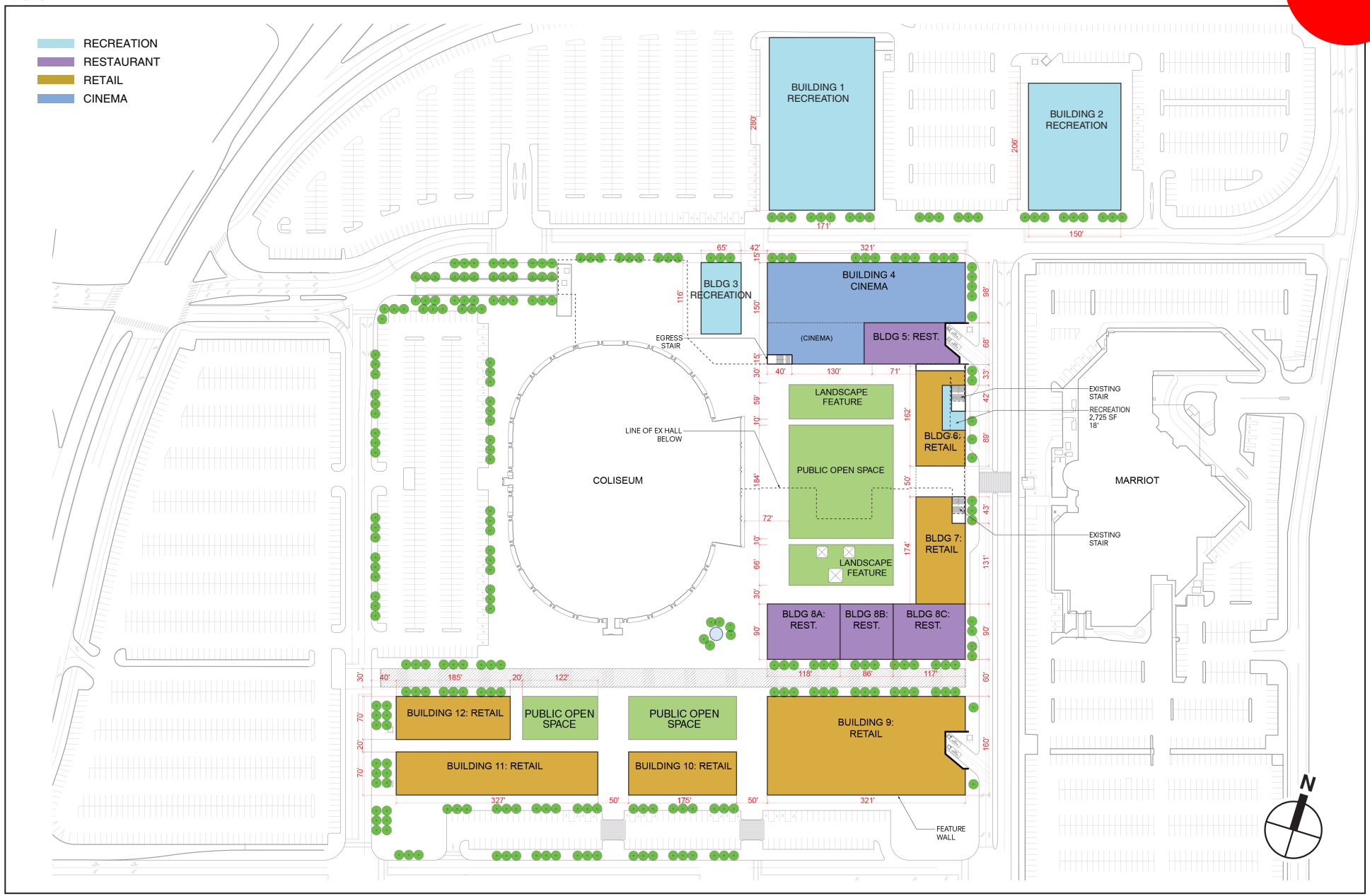
Comparison of Proposed NEC Project to MFM District Alternative Development Scenario

Use	MFM District Alternative Development Scenario (SF)[1]	Proposed NEC Project (SF)	Difference b/w Proposed Project and MFM District Alternative Development Scenario (SF)
Coliseum - Arena	416,000	416,000[2]	0
Parking (structured)	2,269,322	0	-2,269,322
Movie Theater	28,000 (2,012 seats)	60,000 (1,500 seats)	32,000 (-512 seats)
Restaurant	90,500	38,000	-52,500
Retail	275,000	170,000	-105,000
Office	150,000	0	-150,000
Convention/Banquet Space/Recreation	207,000	120,000[3]	-87,000
Hotel	1,487,350 (1,970 rooms)	0	-1,487,350
Residential	468,000 (468 units)	0	-468,000
Total Building Floor Area	**3,121,850**	**804,000[4]**	**-2,317,850**
Total FAR Floor Area[5]	**5,391,172**	**804,000[4]**	**-4,587,172**
Total FAR	**1.60[6]**	**0.20**	**-1.40**

Notes:
1. The Development Scenario is from the FGEIS, Section 2.0, page 15. The MFM District includes the Coliseum property (the proposed project site) and the adjacent Marriott Hotel property, which is not part of the proposed project site.
2. The Proposed NEC Project includes improvements to the Coliseum, with a reduction in seats from approximately 17,700 to a maximum of 13,000.
3. This is anticipated to include 120,000-sf of recreational space.
4. The proposed project also includes an open pedestrian plaza with a grass area and a prominent memorial.
5. Includes parking structure.
6. Incorporates dedicated right-of-way.

Sources: FGEIS for the Lighthouse at Long Island, May 2011; Nassau Events Center, LLC (NEC), March 2015.

4.10.15



SOURCE: SHoP

FOR ILLUSTRATIVE PURPOSES ONLY

Preliminary Site Plan

NASSAU EVENTS CENTER PROJECT

Figure A-2

Following a competitive developer designation process, in September 2013, Nassau County approved a Lease between the County of Nassau and Nassau Events Center, LLC (the "Applicant") for the Coliseum property (the "Lease"). The Lease was the subject of a Full Environmental Assessment Form (EAF), which received a Negative Declaration in August 2013.

CONCEPTUAL MASTER PLAN

As part of the site plan application process for the Proposed NEC Project and pursuant to MFM District requirements, NEC prepared a conceptual master plan (see **Figure A-3**), which shows potential development in the MFM District. The proposed project is a small portion of the conceptual master plan that includes the existing Coliseum and the uses shown immediately east of the Coliseum on the existing plaza and parking areas. Development shown on the remainder of the conceptual master plan is conceptual, not part of the proposed project, and not under control of NEC. Rather, the conceptual master plan demonstrates that the proposed project would fit within the range of allowable uses in the MFM District. This conceptual master plan is consistent with the MFM District Alternative Development Scenario that was analyzed in the FGEIS for the Lighthouse at Long Island and was the subject of the Findings Statement. The conceptual master plan illustrates one possible development scenario for the entire MFM District; it lays out the range of permitted uses under the MFM District zoning and demonstrates that the range of permitted uses, including the proposed project, can be accommodated on the MFM District parcels.

As discussed above, according to the Town's Building Zone Ordinance, "the application for approval of a conceptual master plan for the Mitchel Field Mixed-Use District shall require a shared parking analysis to be prepared by a qualified professional. The Town Board shall consider the shared parking analysis to determine the overall parking requirement for the uses proposed in the conceptual master plan." A shared parking analysis was prepared to ensure consistency of the conceptual master plan with this requirement (see Attachment F, "Transportation and Parking").

Moreover, the conceptual master plan is consistent with all other applicable MFM District regulations and requirements. As mentioned above, the conceptual master plan includes the range of uses permitted under the current zoning. The structures shown comply with all applicable bulk and dimensional requirements including FAR, height, and setbacks (see **Table A-3**). The conceptual master plan does not include any residential units; therefore it does not exceed the maximum number of residential units allowed in the district.

Table A-3
Comparison of Proposed Conceptual Master Plan to MFM District Alternative Development Scenario

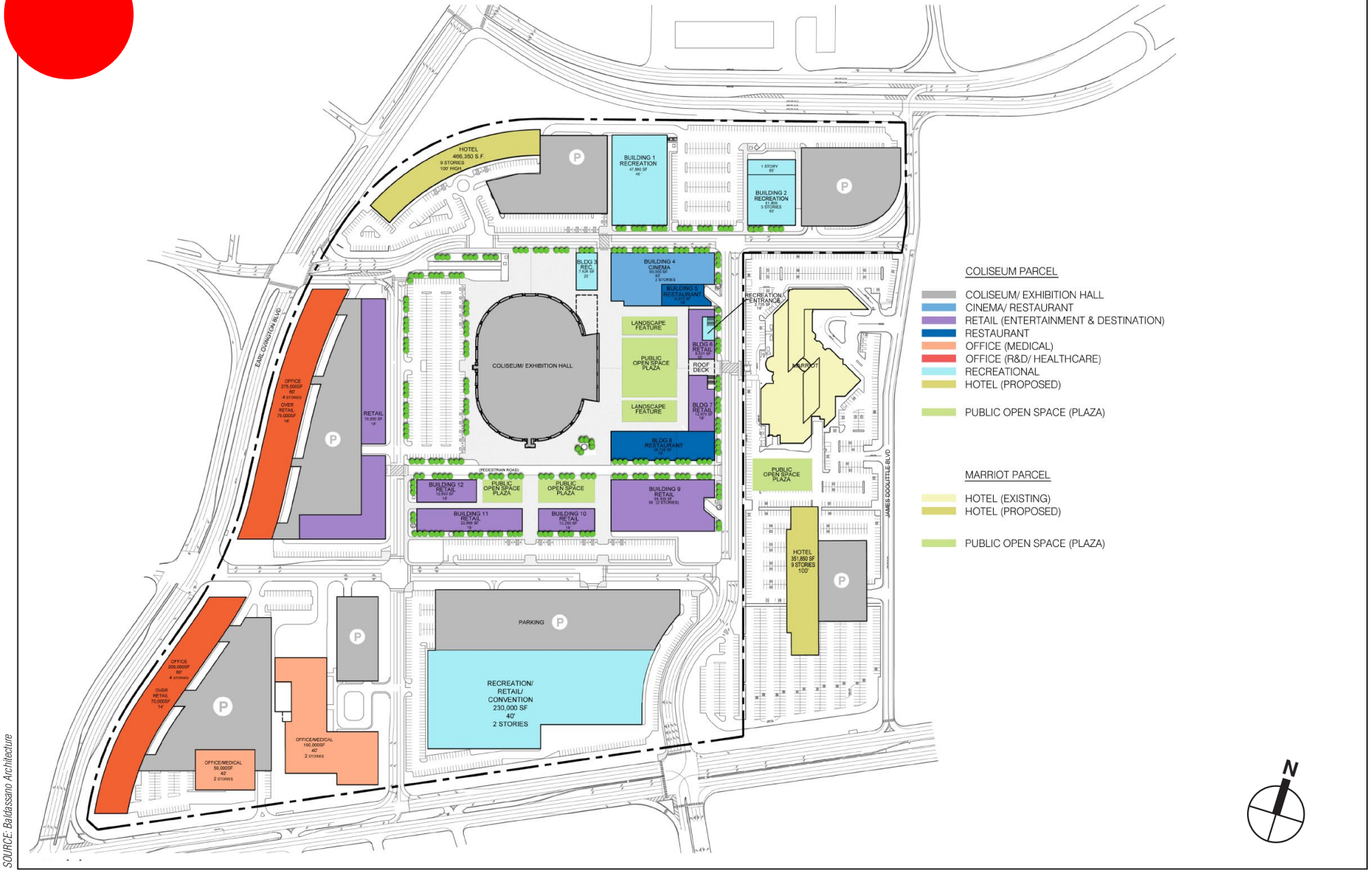
Use	MFM District Alternative Development Scenario (SF)[1]	Proposed Conceptual Master Plan (SF)	Difference b/w Proposed Conceptual Master Plan and MFM District Alternative Development Scenario (SF)
Coliseum - Arena	416,000	416,000[2]	0
Parking (structured)	2,269,322	2,013,898	-255,424
Movie Theater	28,000 (2,012 seats)	60,000 (1,500 seats)	32,000 (-512 seats)
Restaurant	90,500	200,000	109,500
Retail	275,000	385,000	110,000
Office	150,000	675,000	525,000
Convention/Banquet Space/Recreation	207,000	350,000	143,000
Hotel	1,487,350 (1,970 rooms)	1,391,700 (1,843 rooms)	-95,650 (-127 rooms)
Residential	468,000 (468 units)	0	-468,000 (-468 units)
Total Building Floor Area	**3,121,850**	**3,447,700**	**325,850**
Total FAR Floor Area[3]	**5,391,172**	**5,562,900**	**171,728**
Total FAR[4]	**1.60**	**1.60**	**0.00**

Notes:
1. The Development Scenario is from the FGEIS, Section 2.0, page 15. The MFM District includes the Coliseum property (the proposed project site) and the adjacent Marriott Hotel property, which is not part of the proposed project site.
2. The Proposed NEC Project includes improvements to the Coliseum, with a reduction in seats from approximately 17,700 to a maximum of 13,000.
3. Includes parking structure.
4. Incorporates dedicated right-of-way.

Sources: FGEIS for the Lighthouse at Long Island, May 2011; Nassau Events Center, LLC (NEC), March 2015.

In accordance with MFM District requirements, the conceptual master plan demonstrates an efficient design that is visually appealing. The development concept provides for clustered uses within the MFM District parcels. Also, uses are appropriately situated to minimize the potential for any adverse effects on nearby residences, and to group like uses, such as a new hotel, in proximity to the existing Marriott Hotel. Consistent with the zoning, the conceptual layout achieves a mixed-use development that would provide daily amenities and services for the use and enjoyment of working, resident, and visiting populations.

The plan also provides ample space available for public open space or parking, integrates pedestrian plazas, and establishes the required public rights-of-way. The arrangement of the development parcels around the Coliseum itself would maintain visual corridors to the architectural enhancements to the building's façade in the initial construction phase. Pedestrian walkways through the retail development from the adjacent parking areas, and adjacent to the coliseum will foster a safe and lively pedestrian experience. The retail buildings on the east side of the development site closest to the Marriot would be designed to address that building, and a pedestrian crossing would be installed to create a linkage between the two parcels.



SOURCE: Baldassano Architecture

FOR ILLUSTRATIVE PURPOSES ONLY

Conceptual Master Plan

NASSAU EVENTS CENTER PROJECT

Figure A-3

CONSISTENCY OF THE PROPOSED NEC PROJECT WITH THE MFM DISTRICT REQUIREMENTS

The Proposed NEC Project would be in compliance with all applicable MFM District regulations and requirements.[1] As mentioned above, the proposed project represents a small subset of the total development contemplated in the district under the current zoning. As such, the proposed project fits entirely within the potential development envelope analyzed under the MFM District Alternative in the FGEIS for the Lighthouse at Long Island. The proposed uses including the Coliseum, restaurants, and retail, entertainment, and recreational uses are permitted within the district. The proposed structures are anticipated to be in compliance with all applicable bulk and dimensional requirements including FAR, height, and setbacks. As the proposed project does not include any residential units, it would not exceed the maximum number of residential units allowed in the district. The Proposed NEC Project would not preclude the potential full build-out of the MFM District as contemplated in the conceptual master plan.

In accordance with MFM District requirements, the proposed project would include green site and building practices, and an efficient design that is architecturally and visually appealing. These measures would decrease anticipated energy demand through the upgrading of systems, and would reduce water use, generation of solid and liquid waste, and stormwater runoff. For example, the Coliseum renovation would include upgrades to the building's antiquated systems, including the installation of new, low-flow plumbing fixtures and waterless urinals. As discussed in Attachment C, "Water Resources," the proposed project is not expected to result in any significant adverse impacts on water resources. The designs of both the renovated Coliseum and the retail project seek to take advantage of energy efficiency technology to advance environmental sustainable goals. Like the Coliseum, the proposed retail buildings would be specified with low flow fixtures, and energy efficient heating and cooling systems to support sustainable operations. In a similar arena project by the applicant, the use of low-flow fixtures and waterless urinals was found to result in a greater than 45 percent reduction in water usage over a baseline building.

Moreover, the development concept provides for clustered uses within the current footprint of the Coliseum property; clustering a variety of land uses is consistent with the principles of smart growth and new urbanism. The proposed site design also includes a pedestrian-friendly plaza and walkways, which would be designed toward sustainable goals, such as high-albedo surfaces, permeable surfaces and green space. The landscape design would utilize draught–resistant plantings to minimize the need for on-site irrigation.

Throughout construction of both the Coliseum and the retail development, the proposed project would seek to use sustainable materials and practices, including incorporating recycled and locally produced content in building materials and finishes, and instituting a recycling program for construction debris to divert the majority of construction waste away from landfills. In a similar arena project by the applicant, the construction waste recycling program resulted in over 85 percent of construction waste being diverted from landfills.

Furthermore, based on a review of the proposed project, the reduced size and footprint compared with the MFM District Alternative development scenario, and the conclusions presented in the

[1] Relief will be necessary from certain conceptual master plan requirements, which is being requested from the Town Board.

FGEIS and Findings Statement, the proposed project is not expected to result in any significant adverse impacts to natural resources or air quality.

FGEIS CONSISTENCY

Based on the analysis of the development scenario for the MFM District Alternative, the FGEIS for the Lighthouse at Long Island did not identify significant adverse impacts in certain subject areas. Specifically, the areas for which no significant adverse impacts were predicted to occur include: Ecological Resources; Air Quality; Noise and Vibration; Socioeconomics; Community Facilities and Services; Aesthetics and Visual Resources; Cultural Resources; Cumulative Impacts; Unavoidable Adverse Impacts; Irretrievable and Irreversible Commitment of Resources; Growth Inducing Impacts; Use and Conversation of Energy; and Sustainability. Given the consistency of the Proposed NEC Project with the MFM District requirements, and the fact that the proposed project contemplates a development scenario that is considerably less than the scenario studied in the FGEIS, the proposed project would not be expected to result in any new significant impacts in these same subject areas. Additional analyses were performed for areas identified as sensitive in the FGEIS and Findings Statement with respect to potential impacts, including Geology, Subsurface Conditions, Soils and Topography; Water Resources; Stormwater Management; Transportation and Parking; and Construction (see Attachments B, C, D, F, and G). In addition, a summary update with respect to Land Use, Zoning, and Community Character is also provided in this Expanded EAF (see Attachment E). As reflected in this Expanded EAF, the proposed project is not expected to result in any new significant impacts. í

Attachment B: Geology, Subsurface Conditions, Soils and Topography

A. INTRODUCTION

The FGEIS for the Lighthouse at Long Island presented data for existing subsurface conditions in areas including the project site, based on Phase I and Phase II Environmental Site Assessments (ESAs), and provided procedures and best practices to address concerns regarding known and potential subsurface contaminants. The same or similar procedures and best practices to mitigate disturbance of known and potential subsurface contaminants would be appropriate and applicable to development in the MFM District, including on the project site. According to the FGEIS, when a comprehensive master plan for development in the MFM District is submitted for approval, plan-specific mitigation measures for hazardous materials will be required. The Proposed NEC Project, detailed in Attachment A, is smaller in size and density and within the envelope of the potential development analyzed under the MFM District Alternative in the FGEIS. Soils on the project site are mostly well drained, with gentle slopes, and urban land such that impacts to soils would not be expected. This attachment summarizes the existing subsurface conditions on the project site, proposes site-specific mitigation measures for hazardous materials, and confirms consistency with the FGEIS conclusions related to subsurface conditions.

B. EXISTING CONDITIONS

HAZARDOUS MATERIALS ASSESSMENT

The FGEIS for the Lighthouse at Long Island evaluated the existing environmental conditions based on four site-specific Phase I ESAs and a Limited Phase II ESA. Of these, the following studies pertain to the project site:

- *Phase I Environmental Site Assessment (ESA), Nassau Veterans Memorial Coliseum, 1255 Hempstead Turnpike (a.k.a. New York State Route 24 and Fulton Street), Hamlet of Uniondale, Town of Hempstead, Nassau County, New York, Freudenthal & Elkowitz Consulting Group, March 2005*
- *Phase II Limited ESA, Lighthouse Development Project, 1255 Hempstead Turnpike, Uniondale, New York, Kleinfelder, October 2008*

Subsequent to the FGEIS for the Lighthouse at Long Island, in April 2014, Roux Associates, Inc. (Roux) conducted a Phase II ESA for the portion of the project site where physical disturbance is proposed (except the area in the northern portion of the site where the recreational facility is proposed), and in March 2015, Roux conducted a Phase I ESA for the project site, which included a review of the Freudenthal & Elkowitz Phase I ESA and Kleinfelder Phase II Limited ESA.

The Phase I ESA reviewed a variety of sources including: current and historical land use maps; state and federal environmental regulatory databases; and municipal records. It also included

reconnaissance of the project site and its surroundings. The Phase I ESA identified the following for the project site:

- The project site is located within the former Mitchel Field military airbase, which occupied the area from as early as 1918. Historically, three runways, as well as associated taxiways and aircraft pads were on the Site. Mitchel Field was decommissioned prior to 1969 and the Site was developed in its current configuration as the Nassau Coliseum between 1966 and 1976.
- Potential undocumented releases of hazardous substances associated with Mitchel Field may have impacted subsurface soils at the Site. Hazardous substances have not been identified in significant quantities by the Phase II ESAs. Roux's Phase II ESA revealed limited low-levels polychlorinated biphenyls (PCBs) (exceeding unrestricted use criteria but not commercial use criteria). Subsurface investigations identified historical fill material of unknown origin at the Site.
- New York State Department of Environmental Conservation (NYSDEC) Spill #0125233 related to a discharge of approximately 700-gallons of ethylene glycol (antifreeze) beneath the arena floor. This spill was closed (i.e., cleaned up to the satisfaction of State regulatory authorities) on October 22, 2001.
- NYSDEC Spill No. 8701759 was assigned to the Site on June 1, 1987 as a result of an underground storage tank (UST) test failure. The UST and five cubic yards of contaminated soil were removed and the Spill was closed on February 24, 1989.
- A 1,000 gallon diesel fuel UST is used to fuel a backup electrical generator. The UST is located southeast of the building. According to Nassau Coliseum staff, the UST is tested regularly with the most recent tank tightness testing in 2014. There are no records of releases associated with this UST, which was installed in 1987 to replace an earlier UST that was decommissioned (discussed above).
- Several 55-gallon drums containing used oil, waste water, and used glycol were observed throughout the Nassau Coliseum building. Staining in the vicinity of these drums was observed to be *de minimis*.
- According to multiple Asbestos Assessment Reports from ATC Associates, Inc., asbestos-containing materials (ACM) have been identified at the Site. In addition, ACM is presumed to be present in other areas of the Nassau Coliseum that have not been sampled.
- Based on the 1960s construction date, the Site building likely includes lead based paint (LBP).

On April 9, 2015, Roux issued an *Environmental Conditions and Recommendations* letter based on the findings of their March 2015 Phase I ESA. According to the letter, the Site has been adequately characterized and no additional subsurface investigation is necessary at this time. Based on the findings of the previous investigations, Roux recommended the following procedures be implemented during and prior to construction: excavated material should be handled and disposed of in accordance with applicable federal, state, and local regulations; although prior subsurface investigations did not identify any issues of significant concern, a Contingency Plan and a Construction Health and Safety Plan (CHASP) should be developed and implemented; and, as required to comply with New York State Department of Environmental Conservation stormwater management regulations, a Stormwater Pollution Prevention Plan providing erosion and sedimentation control measures to minimize the potential for erosion and impacts to stormwater should be developed and implemented.

C. PROPOSED NEC PROJECT

FGEIS PROCEDURES AND BEST PRACTICES AND ANY ADDITIONAL PROJECT OR SITE-SPECIFIC METHODS TO ADDRESS SUBSURFACE CONTAMINANTS

The FGEIS for the Lighthouse at Long Island provided procedures and best practices to address concerns regarding known and potential subsurface contaminants. The same or similar procedures and practices would be appropriate and applicable to development at the project site. The proposed project would not change the existing footprint of the Coliseum and would entail limited subsurface disturbance for general site preparation and foundations for the new retail/restaurant, entertainment, and recreational buildings. The procedures and best practices for the proposed project are as follows:

- Excavated material to be disposed of off-site would be sampled at a frequency sufficient to meet proposed disposal facility requirements prior to excavation. All excavated material would be handled and disposed of in accordance with applicable federal, state, and local regulations;
- The importation of large quantities of soil is not anticipated as part of the proposed project. Imported topsoil used for landscaping and other construction fill materials would consist of clean imported material from commercial suppliers;
- In the event that the existing UST is to be decommissioned, it would be done in accordance with applicable regulations, and any contaminated soil and/or groundwater would be reported and managed in accordance with the applicable regulations;
- Spill kits would be provided in and around areas where ethylene glycol is stored or transferred in order to prevent releases to the environment. In the event that the existing ice-plant is decommissioned or upgraded, the ethylene glycol and ice-plant materials would be disposed of in accordance with applicable regulations;
- While the 2008 and 2014 Phase II ESAs did not identify any issue of significant concern with respect to subsurface conditions, a Contingency Plan would be prepared and implemented to ensure proper handling if any potential environmental hazards (e.g., previously-unidentified tanks or petroleum spills) are identified during construction;
- Prior to renovation activities, asbestos containing materials (ACMs) abatement plans would be developed to ensure the proper handling, removal, and disposal of ACMs in accordance with applicable regulations. Appropriate engineering controls and best management practices to minimize asbestos exposure would be implemented during any activities that could result in the disturbance of ACM. Asbestos air monitoring would be conducted in accordance with applicable regulations;
- Prior to renovation activities, a lead based paint (LBP) exposure assessment would be completed to determine whether lead exposure would occur during the renovation. If the exposure assessment were to indicate the potential for the renovation to generate dust or fumes with lead levels exceeding health-based standards, workers would be required to use a higher personal protection equipment standard to counteract exposure. Regardless of the LBP exposure assessment findings, best management practices would be employed to control dust, as required by OSHA, throughout the renovation;
- A survey of regulated wastes including but not limited to PCB-containing equipment and mercury-containing equipment would be conducted prior to the renovation. The findings of

this survey would be used to establish procedures to ensure proper handling and disposal of regulated wastes that are impacted by the renovation;

- A Construction Health and Safety Plan (CHASP) would be prepared prior to renovation, to address known and potential concerns (e.g., unexpected petroleum storage tanks or petroleum-contaminated soil). The CHASP would include measures for worker and community protection, including personal protective equipment, dust control, air monitoring (including a Community Air Monitoring Plan), and emergency response procedures.
- As explained in Attachment 4, "Stormwater Management," extensive erosion and sedimentation control measures are proposed to be employed to minimize the potential for erosion. A formal Storm Water Pollution Prevention Plan (SWPPP) would be prepared for the project site, including a detailed erosion and sediment control plan, to manage stormwater generated on-site during construction activities, and for post-construction stormwater management.

FGEIS CONSISTENCY AND POTENTIAL IMPACTS

Consistent with FGEIS for the Lighthouse at Long Island's findings for the MFM District Alternative, and with the proposed measures, the Proposed NEC Project would not result in any significant adverse impacts with respect to geology, subsurface contaminants, soils, and topography. í

A. INTRODUCTION

This attachment provides the Proposed NEC Project's estimated potential water demand and assesses the capacity of the local water district to supply water to the proposed project.

B. EXISTING CONDITIONS

CAPACITY OF THE LOCAL WATER DISTRICT

The FGEIS for the Lighthouse at Long Island reported that the "Uniondale Water District (UWD)…is currently operating under a theoretical deficit for meeting 'maximum-day plus fire-flow' demand." In addition, it was noted in the FGEIS that "it is likely a new well will be needed to meet the water demand of development in the MFM District." Therefore, the Town of Hempstead Water Department, which includes the UWD, was contacted to determine its capacity to supply potable water to the proposed project, and specifically to determine whether a new well would be needed to meet the demands of the proposed project.

According to the Town of Hempstead Water Department, the information originally provided in the FGEIS still stands. The district does operate at a theoretical deficit, however, under ideal conditions, all wells meeting design capacity, there is a slight surplus, .092 mgd. No additional capacity has been added to the district since the FGEIS was prepared.

The water infrastructure within the project site as well as the mains to the north and west of the project site are currently owned by Nassau County and are part of the Mitchel Field Water Supply Area.

C. PROPOSED NEC PROJECT

POTENTIAL ESTIMATED WATER DEMAND

As discussed in Attachment A, the proposed project includes improvements to the Coliseum with a reduction in seats from approximately 17,700 to a maximum of 13,000, and the creation of new restaurants, a movie theater, and other attractions and public amenities. The proposed project is anticipated to include approximately 170,000 square feet (sf) of new retail space, 38,000 sf of restaurant space, a 60,000-sf movie theater, and 120,000-sf of recreational space. It also includes an open pedestrian plaza with a grass area/landscaping, hardscape features, and a prominent memorial.

The estimated peak water demand from the proposed project is summarized in **Table C-1**, based on the proposed uses, size of each use, and water design flow rates, which were included in the FGEIS for the Lighthouse at Long Island. As shown in the table, the net estimated water flow from the proposed project over the future baseline condition is a reduction of approximately 1,943 gpd (a

2.00 percent decrease), compared with a net additional domestic water demand of 728,612 gpd for the MFM District Alternative, as reported in the FGEIS.

Table C-1
Proposed Water Design Flows

Use	Area (SF)	Seats	Water Rate*		Water Flow (GPD)
Coliseum - Arena	416,000	13,000	1.71	gpd/occ	22,230
Movie Theater	60,000	1,500	3.00	gpd/seat	4,500
Restaurant	38,000	1,400**	38.00	gpd/seat	53,200
Retail Space	170,000		0.02	gpd/sf	3,400
Recreational Facility	120,000		0.1	gpd/sf	12,000
Total Proposed Uses	**804,000**				**95,330**
Existing Coliseum	**416,000**	**17,686**	**5.5**	**gpd/occ**	**97,273**
				Net Water Demand	**-1,943**

Notes/Sources:
*Proposed rates based on the Proposed Water Design Flow Rates included in the FGEIS for the Lighthouse at Long Island and Findings Statement, May and June 2011, respectively. Existing rate based on actual water usage and seat count for the Coliseum as documented in the DGEIS for the Lighthouse at Long Island, Table 3.2-9, "Mitchel Field Water Supply Area," and Table 3.2-2, "Existing Sewage Flow Generation."
**Estimated seating based on square footage.

As discussed in Attachment A, the proposed project site occupies approximately 77 acres of the approximately 91-acre Mitchel Field Mixed-Use (MFM) District. The proposed project would be in compliance with all applicable MFM District regulations and requirements. The development program represents a subset of the total development contemplated in the district under the current zoning. As such, the proposed project fits entirely within the potential development envelope analyzed under the MFM District in the FGEIS.

The proposed project's estimated water demand results in a net decrease in water use compared with the existing Coliseum. The MFM District requires that any development proposal include sustainable site and building practices to decrease water use; these measures will be required as part of the application for conceptual master plan and site plan approval. For example, the Coliseum renovation would include upgrades to the building's antiquated systems, including the installation of new, low-flow plumbing fixtures and waterless urinals. The Proposed NEC Project would result in a reduction of water usage on the project site and therefore would not result in any significant adverse impacts on the existing water supply.

The proposed project design is limited in scope to the existing plaza area and the parking areas located to the north, south, and east of the existing plaza. The location of the proposed buildings would affect the existing water mains located in the access roads surrounding the existing plaza.

In order to minimize the potential effect on those mains, the developer would relocate segments of the affected water mains. It is anticipated that due to the minimal effect on the existing water infrastructure the water mains would continue to be owned and maintained by Nassau County. í

A. INTRODUCTION

According to the FGEIS for the Lighthouse at Long Island (page 22), upon approval of a conceptual master plan, and site and building plans, for development in the MFM District, Stormwater Pollution Prevention Plans (SWPPPs) would be completed, and all necessary approvals would be obtained by an applicant. Also, the FGEIS for the Lighthouse at Long Island includes general stormwater management information as well as expected controls, inspection, and maintenance activities for proposed development. The same standards, procedures, and regulations would be applicable to a conceptual master plan and site plans submitted for the MFM District, including the proposed project. The project site is mostly impervious and there would be no increase in the amount of impervious surfaces with the proposed project. Therefore, it is not expected that stormwater runoff with the proposed project would be greater than the existing or No Build condition. Furthermore, the MFM District regulations include sustainable design guidelines that require measures and practices to quantifiably decrease water use, liquid waste production, and stormwater runoff in the district, to control stormwater runoff. This attachment describes the proposed stormwater management best practices, confirms that a SWPPP would be prepared, and assesses the project's consistency with the previous FGEIS conclusions related to stormwater management.

B. EXISTING CONDITIONS

The 77-acre project site includes approximately 69 acres of impervious surface. The MFM District regulations include sustainable design guidelines to quantifiably decrease stormwater runoff. There are also applicable state and county regulations governing the potential discharge of stormwater from construction sites.

C. PROPOSED NEC PROJECT

PROPOSED MEASURES AND PRACTICES

The proposed project would result in a decrease of 1.87 acres of impervious surface on the project site, which would be replaced with landscaping. In order to minimize impacts associated with stormwater runoff, the following measures have been incorporated into the proposed project:

- The Coliseum renovation would include upgrades to the building’s antiquated systems, including the installation of new, low-flow plumbing fixtures and waterless urinals.
- Comprehensive stormwater management plans would be designed to capture the stormwater runoff from the project site;

- Such stormwater management system would include modifications to the existing positive drainage system to mitigate any impacts relating to the location of the proposed buildings and site improvements;
- Erosion control measures are proposed to be employed during both construction and operation of the proposed project in order to minimize erosion and transport of sediment. Perimeter erosion control measures may include silt fencing, hay bales, and the maintenance of construction entrances to prevent sediment from being transported off-site. Various types of inlet protection would be used to protect on-site drainage inlets and stockpiling and clearing would be controlled to minimize the erosion potential of the site;
- In accordance with the current New York State Department of Environmental Conservation (NYSDEC) regulations governing the potential discharge of stormwater from construction sites (General Permit for Construction Activity GP-0-10-001), a SWPPP would be prepared for the project submitted for site plan review. The SWPPP would be submitted to the Town of Hempstead for approval and Nassau County for review under 239f, and then the Notice of Intent (NOI) would be forwarded to the NYSDEC upon completion of the Town approval process. Construction activities would not be initiated until all required approvals are obtained;
- During construction, erosion control measures would be inspected by a qualified inspector every seven days. During times when more than five acres of the site are disturbed, the inspector would conduct at least two site inspections every seven days. The inspector would prepare an inspection report (on at least a quarterly basis, as required under the General Permit) in compliance with the requirements of the SWPPP;
- Proper maintenance of the recharge structures would be employed to ensure that the system operates correctly and would prevent any discharge to surface waters. Termination of coverage under the General Permit requires that post construction management practices and plans be provided to the operator in the form of a post construction stormwater practices maintenance manual and plan. Maintenance of the post-construction stormwater management systems would ensure that the environmentally sensitive areas near the project (Hempstead Plains, wetlands) would not receive runoff from the project area; and
- The proposed development would be designed to comply with the Phase II Stormwater Regulations and the recommendations of the Nonpoint Source Management Handbook and the Nationwide Urban Runoff Program.

PREPARATION OF SWPPP

As discussed above, in accordance with the current NYSDEC regulations governing the potential discharge of stormwater from construction sites (General Permit for Construction Activity GP-0-10-001) and Town and County regulations regarding stormwater management, a SWPPP would be prepared for the proposed project. The SWPPP would be submitted to the Town of Hempstead for approval, and the NOI forwarded to the NYSDEC upon completion of the Town approval process. As part of Nassau County's 239f review, the SWPPP would also be submitted for review by the Nassau County Department of Public Works.

CONSISTENCY WITH FGEIS AND LOCAL REGULATIONS

The proposed project represents a small subset of the total development contemplated in the district under the current zoning (see Attachment A). As such, the proposed project fits entirely within the potential development envelope analyzed under the MFM District Alternative in the FGEIS for the Lighthouse at Long Island. The project site is also smaller in size compared with

the MFM District and is mostly impervious. The proposed project would result in a decrease in the impervious coverage on the site. As discussed above, the proposed project would be in compliance with all applicable local regulations governing stormwater management. Similar to the findings of the FGEIS for the MFM District Alternative, with the proposed measures, the project would not result in any significant adverse stormwater impacts. í

Attachment E: Land Use, Zoning, and Community Character

A. INTRODUCTION

This attachment updates the land use and zoning analyses included in the FGEIS for the Lighthouse at Long Island to provide context for the Proposed NEC Project and to document any changes in background conditions since completion of the FGEIS, which included the MFM District Alternative.

Existing and 2017 No Build conditions (conditions in the future without the proposed project) were determined based on site visits, aerials, on-line research, review of the Town of Hempstead's Zoning Map, review of relevant plans and policies, and information provided by the Town regarding planned or recently approved development projects in the surrounding area.

The compliance of the Proposed NEC Project with the MFM District regulations regarding proposed land use and community character is also discussed.

B. EXISTING CONDITIONS

LAND USE

PROJECT SITE

The project site totals approximately 77 acres of County-owned land bounded by Charles Lindbergh Boulevard to the north, Hempstead Turnpike to the south, the Marriott Hotel property to the east, and Earl Ovington Boulevard to the west. The site is occupied by the approximately 416,000-square-foot, 17,700-seat Nassau Veterans Memorial Coliseum ("the Coliseum") and approximately 6,786[1] associated surface parking spaces. The Coliseum building contains concessions, a pub, a restaurant, an expo center, and an executive suite that can be used for private parties. The building rises approximately 57 feet 11 inches above grade level (to the top of the precast panels). The ice surface is located approximately 24 feet below the concourse level, making the total inside height approximately 82 feet (equivalent to an approximately 8-story building).

The Coliseum opened in 1972 and will be home to the New York Islanders of the National Hockey League until the current lease runs out in August 2015. The Coliseum is also a concert venue and hosts year-round activities including various indoor and outdoor sporting and entertainment events, and family shows.

[1] DGEIS for the Lighthouse at Long Island, June 2009.

STUDY AREA

Land uses within ¼ mile of the project site ("the primary study area") include community and public services and institutions, open space/recreational, commercial (including retail, hotel, and office), residential, utility, and vacant land (see **Figure E-1**). Immediately north of the project site is a private power generation plant on Charles Lindbergh Boulevard, as well as the Nassau Community College (NCC). To the south are mostly retail and office uses (including the two 15-story RXR Plaza office towers) and vacant land along Hempstead Turnpike, with single-family residential uses beyond. To the east is the Marriott Hotel, behind which is the Francis T. Purcell Preserve. The Hempstead Plains are located northeast of the project site in the vicinity of NCC. To the west of the project site are Hofstra University, the Mitchel Field Athletic Complex, and the 10-story Omni office building.

Additional uses in the secondary study area, generally bounded by Stewart Avenue/Meadowbrook Parkway to the north, Front Street to the south, Merrick Avenue to the east, and Oak Street to the west, include the Covanta Hempstead Company's energy-from-waste facility in the northeast corner of the study area on Merchants Concourse; the Long Island Rail Road right-of-way and the Nassau Inter-County Express (NICE) bus depot in the northern portion; Museum Row—also in the northern portion—including the Cradle of Aviation Museum, the Long Island Children's Museum, and the Nassau County Firefighters Museum and Education Center; a UPS drop box store on Quentin Roosevelt Boulevard; Kellenberg Memorial High School in the southeast corner of the study area; and a senior assisted living facility and senior housing and the Meadowbrook Parkway along the eastern edge of the study area (see **Figure E-2**). In 2012, Avalon Garden City—a housing development with more than 200 apartments, townhouses, and single-family homes—was constructed on Stewart Avenue, adjacent to NCC.

ZONING

STUDY AREA

In addition to the MFM District, as described in Attachment A, which also affects the Marriott Hotel property adjacent to the project site immediately to the east, the ¼-mile study area includes several other zoning districts, which are described in **Table E-1** and shown on **Figure E-3**. These zoning districts generally permit residential, retail, office, educational, cultural, and recreational/entertainment uses.

4.8.15

Project Site Boundary

MGM District

Study Area Boundary (1/4-Mile Perimeter)

Residential

Commercial

Community and Public Services

Open Space and Outdoor Recreation

Utility

Vacant Land

0 1000 FEET

SCALE

Land Use in Primary Study Area

NASSAU EVENTS CENTER PROJECT

Figure E-1

4.8.15

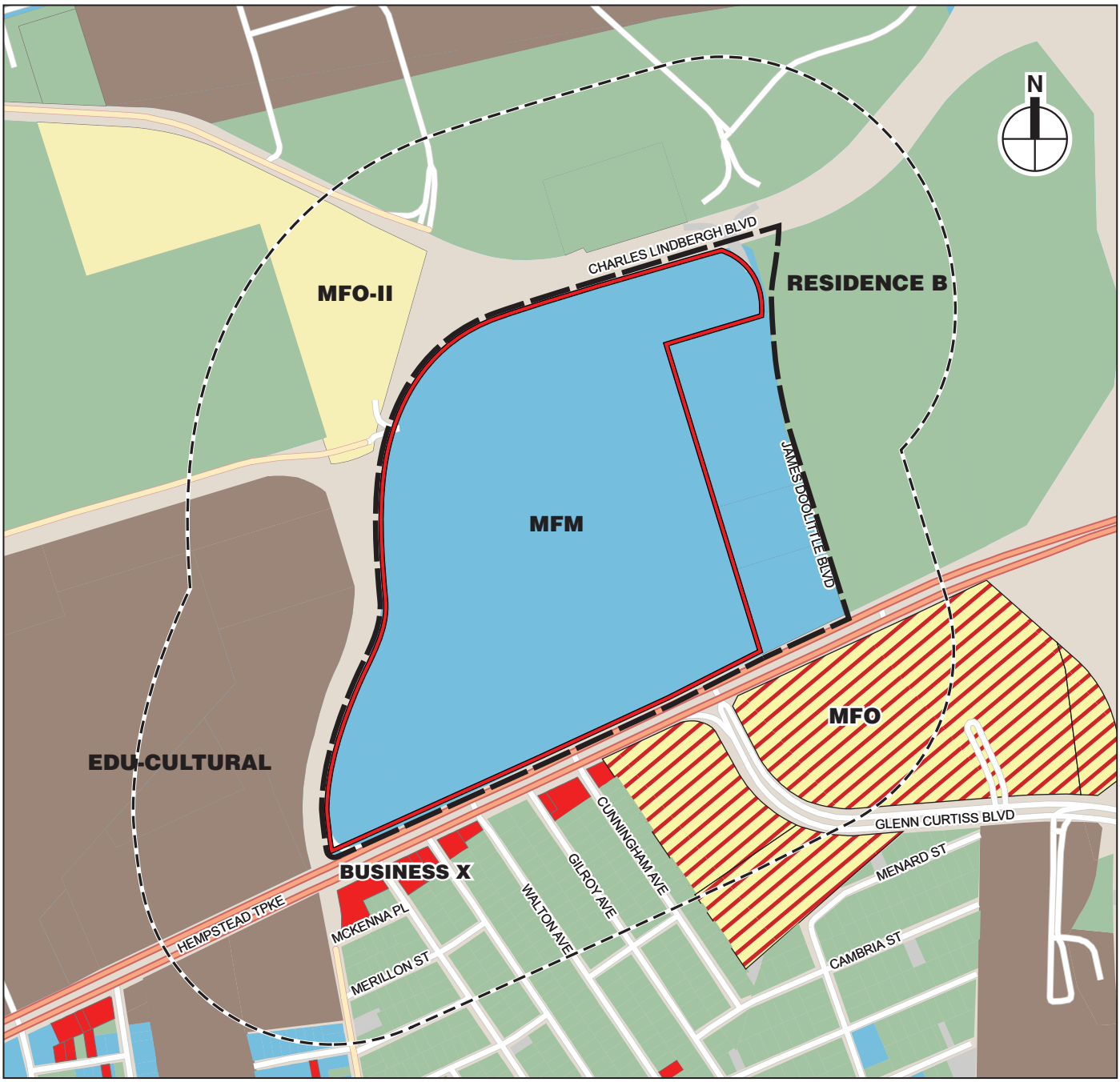
SOURCE: NYS Statewide Digital Ortho Imagery Program (DOP), 2010 Aerial

Major Land Uses in Secondary Study Area

NASSAU EVENTS CENTER PROJECT

Figure E-2

4.8.15



Project Site Boundary

MFM District

Study Area Boundary (1/4-Mile Perimeter)

Zoning

Residence B

Business X

Edu-Cultural

Mitchel Field Mixed-Used (MFM)

Mitchel Field Office (MFO)

Mitchel Field Office II (MFO-II)

0 2000 FEET

SCALE

NASSAU EVENTS CENTER PROJECT

Zoning

Figure E-3

Table E-1
Bulk and Dimensional Requirements of the Additional Zoning Districts in the Study Area

Parameter	B Residence	Business X	Edu-Cultural	Mitchel Field Office (MFO)	Mitchel Field Office II (MFO-II)
Minimum Lot Area	6,000 sf	N/A	1 acre	7 acres	6 acres
Maximum Building Area	27.5% (up to 30% with deck parking)	70%	35%	35% (up to 60% with accessory parking structure)	35% (up to 60% with accessory parking structure)
Floor Area Ratio	N/A	N/A	N/A	0.4	0.4
Maximum Height	Residential: 30 feet/2 ½ stories; Non-residential: 45 feet/3stories	30 feet/2 stories[1]	175 feet/14 stories[1]	175 feet	125 feet/10 stories
Minimum Lot Width	55 feet	N/A	N/A	N/A	N/A
Front Yard	Average front yard depth of the existing buildings within 200 feet on each side of the lot and within the same block in the same use district. Maximum depth of 40 feet	Maximum depth of 20 feet	Minimum depth of 25 feet	For all yards, 25 feet for the first 35 feet of building height, facing thereon, with an increased setback of one foot for each 3 feet in height above 35 feet	100 feet
Side Yards	Varies	N/A	Minimum depth of 10 feet		50 feet
Rear Yard	25 feet[1]	Minimum 10 feet[1]	Minimum depth of 20 feet		50 feet

Notes: [1]Certain exceptions apply.
Sources: Town of Hempstead Building Zone Ordinance; the FGEIS for the Lighthouse at Long Island.

PUBLIC POLICY

The Town of Hempstead's Building Zone Ordinance (including the legislative intent of each zoning district and zoning determinations made by the Town), acts as the de facto comprehensive plan for this Town. The FGEIS for the Lighthouse at Long Island also included an evaluation of relevant Nassau County plans—the 1998 *Nassau County Comprehensive Plan*, the 2001 *Nassau County Open Space Plan*, and the 2006 *Nassau Hub Master Investment Study*. The County has since prepared a Draft *2010 Nassau County Master Plan*, which is described below. In addition, the FGEIS for the Lighthouse at Long Island also evaluated the Village of Hempstead's 2008 *Downtown Vision and Comprehensive Development Plan Update*, as a small portion of the Lighthouse study area (the Proposed NEC Project's secondary study area) falls within the Village boundaries. (No portion of the project site falls within the jurisdiction of the Village of Hempstead). Other relevant public policy reports since publication of the FGEIS include the Long Island Regional Development Council's 2011 *Strategic Economic Development Plan for Nassau and Suffolk Counties* and the Town's 2012 *Uniondale Vision Plan*, which are also described below.

DRAFT 2010 NASSAU COUNTY MASTER PLAN

The Draft *2010 Nassau County Master Plan* addresses several issues, sets goals, and identifies policies for the economy, land use, and infrastructure. The Plan calls for supporting and promoting investment and job creation; targeting sustainable development in growth areas; and retrofitting the County's infrastructure. The plan also includes an Action Plan Matrix that summarizes actions and timeframes for implementation. The recommendations include targeting development in growth areas, which account for approximately 10 percent of Nassau's land area. Specifically identified growth areas include "Transit-Oriented" Downtowns, the Nassau Hub,

which includes the Coliseum property, and the Grumman Property. The Nassau Hub is identified as a large, mixed use area.

2011 STRATEGIC ECONOMIC DEVELOPMENT PLAN FOR NASSAU AND SUFFOLK COUNTIES

Specific to the project site, the 2011 *Strategic Economic Development Plan for Nassau and Suffolk Counties* asserts that it should feature a sustainable, transit-oriented, mix of business, sports, entertainment, and other uses that could serve as a regional and national model for suburban development. The site is recognized as being mostly paved with an outdated Coliseum, with the potential to be converted to more productive use, including a state-of-the-art indoor sports arena and an exhibition center. The Long Island Regional Economic Development Council urges Nassau County and the Town of Hempstead to prioritize a plan for the creative use of the site that can become a catalyst for economic development in the entire Long Island region. Moreover, the Plan recognizes the Nassau Hub, which includes the project site, as being strategically located so as to become a major economic engine that creates quality jobs and provides opportunities to link new enterprises with the surrounding businesses and institutions in the area. The Plan also supports the development of walkable/bikable redevelopment at Nassau Hub that leverages local assets to maximize transportation connections, economic synergies, and job opportunities for surrounding communities.

2012 UNIONDALE VISION PLAN

The Town of Hempstead's Department of Planning and Economic Development released the *Uniondale Vision Plan* in August 2012. The plan, developed in collaboration with the community, reflects local objectives to be achieved through a defined action plan. The plan's recommendations are intended to contribute to Uniondale's sustainability and viability in commercial, residential, university, and other community sectors. Key "vision elements" detail a plan of action in four major categories (beautification, traffic and transportation, economic development, and sustainability of residential neighborhoods). The plan identifies the Coliseum as a community resource in the Nassau Hub.

COMMUNITY CHARACTER

The FGEIS for the Lighthouse at Long Island also described the community character of the project site and the surrounding area. According to the FGEIS, "community character" is a subjective term that reflects the interplay among a number of factors that define a community's context and feeling, and may include the following:

- types of landforms present;
- presence and type of surface waters, if any;
- ecological resources present, if any;
- land use mix and pattern and density of development;
- volume of and mix of vehicular traffic;
- sources and characteristics of noise; and
- socioeconomic characteristics.

In addition, according to the FGEIS, "the aesthetic/visual qualities of a site in relation to its surroundings are also a major contributor in defining the character of a community."

In summary, the community character of the project site and the surrounding area is defined by a number of dominant land uses—including the Coliseum and associated parking lots, in particular—of differing sizes and densities. Other contributing factors such as landforms, surface waters, and ecology, are not significant contributors to community character within the study areas. Most of the surrounding area is subject to noise characteristics of an urban/suburban environmental setting, and transportation systems (including the network of interchanges near the project site) substantially contribute to the area's community character.

Other examples of uses that define the community character are the large, multi-story office and hotel buildings (including RXR Plaza, The Omni, and the Marriott Hotel) in the areas north, south, and east of the Coliseum, as well as the larger taller buildings within the NCC and Hofstra University properties. These buildings are dominant factors in the visual landscape.

To a lesser extent, the surrounding area is also characterized by residential uses including single-family, detached homes on smaller lots south of Hempstead Turnpike, as well as a few multi-family developments, such as Avalon Garden City north of the project site, discussed above, and others in the southeast portion of the secondary study area. In addition, commercial sites along the southern side of Hempstead Turnpike contribute to the area's mixed-use character. The smaller residential and commercial sites located south of Hempstead Turnpike are well-buffered by street trees that camouflage the larger uses to the north.

Overall, the character of the area is defined by its major land uses and manmade elements and its importance as a gathering place for large groups of people, whether for recreational, entertainment, educational, or business functions.

NO BUILD PROJECTS

There are currently no other development projects planned for the project site. Therefore, in 2017, in the future without the proposed project, the Coliseum is assumed to continue to operate as is with approximately 17,700 seats. The New York Islanders of the National Hockey League will leave when its current lease runs out in August 2015. However, it is anticipated that the Coliseum would continue to host various concerts and events.

Within the study areas, there are a few planned development projects. According to the County's website, there are plans for a Long Island Museum for Science and Technology to become part of the Cradle of Aviation Museum.[1] The Town's Building Department confirmed there is no substantial development or planned projects in the land use study areas within the Town's jurisdiction; there are plans for a 150,000-sf retail expansion at Roosevelt Field and a proposed hotel just north of the study area on Merrick Avenue. No other significant changes to land use, zoning, or public policy are expected in the study areas in the future without the proposed project.

[1] http://www.nassaucountyny.gov/website/en/arts+culture/museum_row.html, last accessed on December 16, 2013.

C. PROPOSED NEC PROJECT

LAND USE

The Proposed NEC Project would be compatible with uses in the surrounding area. The proposed project would feature retail, restaurant, entertainment, and recreational uses that would serve the area's residential, student, and hotel populations. The proposed project would offer a mix of uses that would complement the existing mix of uses in the surrounding area, and would be designed in such a manner so as not to preclude future development on the project site or in the MFM District overall. Moreover, the detached residential uses on lots south of Hempstead Turnpike and commercial sites along its southern side are well-buffered from the project site by street trees and Hempstead Turnpike. While the proposed project would provide necessary repair and updating of the Coliseum, it would not result in a substantially different use from what is there currently. As discussed in Attachment A, the Coliseum is a prominent, active recreational use in the County, and has been since its opening in 1972.

ZONING

As discussed in Attachment A, the Proposed NEC Project would be in compliance with all applicable MFM District regulations and requirements, and it is not anticipated that any variances from those regulations and requirements would be required. The proposed uses including the Coliseum, restaurants, and retail and entertainment/recreational uses are permitted uses within the district. The proposed structures would be in compliance with all applicable bulk and dimensional requirements including FAR, height, and setbacks. Also, the proposed project does not include any residential units and therefore would not exceed the maximum number of residential units allowed in the district. The Proposed NEC Project would not preclude the potential full build-out of the MFM District as contemplated in the conceptual master plan.

In accordance with MFM District requirements, the proposed project would include green site and building practices, and an efficient design that is architecturally and visually appealing. These measures would decrease anticipated energy demand through the upgrading of systems, and would reduce water use, generation of solid and liquid waste, and stormwater runoff. For example, the Coliseum renovation will include upgrades to the building's antiquated systems, including the installation of new, low-flow plumbing fixtures and waterless urinals. As discussed in Attachment C, "Water Resources," the proposed project is not expected to result in any significant adverse impacts on water resources. The designs of both the renovated Coliseum and the retail project seek to take advantage of energy efficiency technology to advance environmental sustainable goals. Like the Coliseum, the proposed retail buildings would be specified with low flow fixtures, and energy efficient heating and cooling systems to support sustainable operations. In a similar arena project by the applicant, the use of low-flow fixtures and waterless urinals was found to result in a greater than 45 percent reduction in water usage over a baseline building.

Moreover, the development concept provides for clustered uses within the current footprint of the Coliseum property; clustering a variety of land uses is consistent with the principles of smart growth and new urbanism. The proposed site design also includes a pedestrian-friendly plaza and walkways, which would be designed toward sustainable goals, such as high-albedo surfaces, permeable surfaces and green space. The landscape design would utilize draught–resistant plantings to minimize the need for on-site irrigation.

Throughout construction of both the Coliseum and the retail development, the proposed project would seek to use sustainable materials and practices, including incorporating recycled and locally produced content in building materials and finishes, and instituting a recycling program for construction debris to divert the majority of construction waste away from landfills. In a similar arena project by the applicant, the construction waste recycling program resulted in over 85 percent of construction waste being diverted from landfills.

Furthermore, based on a review of the proposed project, the reduced size and footprint compared with the MFM District Alternative Development Scenario, and the conclusions presented in the FGEIS and Findings Statement, the proposed project is not expected to result in any significant adverse impacts to natural resources or air quality.

The proposed project would be compatible with zoning districts in the surrounding area which permit similar uses including retail, office, and entertainment facilities.

PUBLIC POLICY

The proposed project is consistent with the relevant County, Town, and regional policies pertaining to use of the project site, in that it addresses the recognized need to revitalize the existing Coliseum to ensure its long-term vitality and to create a destination center within the Nassau Hub. The proposed project would incorporate sustainable development by clustering a mix of uses on a site that is primed to take advantage of the local educational, institutional, and commercial activities in the surrounding area to maximize business synergies and job opportunities. The proposed project would also feature a state-of-the-art arena and first-class complementary retail, restaurant, entertainment, and recreational uses that would be architecturally appealing to draw visitors from the surrounding region and beyond. In addition, the proposed site design provides opportunities for pedestrian-friendly plazas and walkways and would not result in adverse open space impacts. Rather, the proposed project would transform an open, paved asphalt condition into a cluster of uses including an open lawn and a new, prominent veteran's memorial. Overall, the proposed project would satisfy the legislative intent of the MFM District, which is that "each phase of development at Mitchel Field, as it progresses, should support and enlarge the use and enjoyment of prior development." The proposed project would also incorporate an efficient, architecturally and visually appealing design and would promote environmental quality in accordance with the zoning by incorporating a number of sustainable site and building practices.

COMMUNITY CHARACTER

As discussed above, the existing character of the area is defined by its major land uses including the Coliseum, Marriott Hotel, RXR Plaza and The Omni office buildings, and adjacent institutional uses of Hofstra University and NCC. These uses presently attract persons to the project site and surrounding area for recreational, entertainment, educational, and business functions. However, there is a recognized need to revitalize the existing Coliseum to ensure its long-term functionality, to facilitate the County's redevelopment objective for the creation of a lively regional center within the Nassau Hub, and to fulfill the Town's intention to redevelop the site with a mix of uses that promote creative design, quality construction, and environmental quality in accordance with current zoning. The proposed project would support and enhance the area's community character by providing new, first-class facilities to complement the existing mix of uses in the surrounding area. The proposed project is anticipated to serve the residents of the surrounding communities, Nassau County, and beyond.

The proposed project would positively affect the character of the community by redeveloping the outdated Coliseum property into a new first-class, mixed-use development including complementary retail, restaurant, entertainment, and recreational uses. Portions of the parking lot that presently dominates the character of the Coliseum property during non-event times would be transformed into a destination of business and recreational activities, including green space. It is anticipated that the transformed Coliseum would also allow the Islanders to continue to play several home games at the arena, which is an important amenity for the local community. As mentioned above, the applicant is also proposing to construct a new veteran's memorial at the site.

The revitalized Coliseum would serve as the anchor for the appropriately-scaled and complementary retail, entertainment, and recreational venues proposed on the project site, as well as future redevelopment in accordance with the conceptual master plan. The proposed project is anticipated to create approximately 960 direct on-site jobs during construction and an additional 996 once the project is operational in 2017.

Including direct, indirect and induced employment, the project would create a total of over 1,500 jobs in the County during construction and approximately 1,400 direct, indirect and induced jobs in Nassau County during the operational period. Substantial public sector revenues are also anticipated from the Proposed NEC Project, estimated at approximately $12.47 million during the construction period and approximately $16.88 million annually, in addition to arena on-site revenues, including payments to the County ($4.4 million minimum payment or 8 percent of revenue, plus relief from the burden of current Coliseum maintenance and repair costs), during operation.

The applicant proposes to renovate the Coliseum to a state-of-the-art arena complete with exterior and interior architectural details that would signify to the public that the Hub is a center for economic investment, growth, and job creation.

Overall, the Proposed NEC Project is anticipated to positively transform the Coliseum property and enhance the character of the surrounding community by providing a mix of retail, restaurant, entertainment, and recreational uses to support the existing residential, student, and hotel populations, while at the same time drawing additional visitors from Nassau County and beyond to contribute to the area's role as a central gathering place and to support the local and regional economy. í

A. INTRODUCTION

This attachment examines the potential for traffic-related impacts associated with the Proposed NEC Project. The transportation analysis included in the Mitchel Field Mixed-Use District Lower-Density Alternative (MFM District Alternative) of the FGEIS for the Lighthouse at Long Island was used as a baseline for this analysis with certain adjustments described later. The Proposed NEC Project includes renovations to the existing Coliseum resulting in a reduced seating capacity, new mixed-use development including retail, restaurant, cinema, and recreational land uses, and general roadway improvements surrounding the project site. **Table F-1** shows the projected total number of new vehicle trips generated by the Proposed NEC Project compared to the MFM District Alternative. The trips shown for the MFM District Alternative and Proposed NEC Project only include trips generated by their proposed new development and exclude trips generated by the existing uses on the site (such as the Coliseum, Marriott Hotel, Omni and RXR Plaza East). A comparison can only be made between the Weekday Afternoon and Saturday Midday peak hours because the Weekday Pre-Event peak hour trip generation was not provided in the MFM District Alternative traffic study.

Table F-1
Comparison of New Peak Hour Vehicle Trips (Excluding Coliseum) between MFM District Alternative and Proposed NEC Project

Peak Hour	MFM District Alternative	Nassau Events Center	% Difference
Weekday Afternoon	1,997	1,309	-34%
Weekday Pre-Event		1,869	N/A
Saturday Midday	2,997	1,881	-37%

As shown in **Table F-1**, the total number of new vehicle trips generated by the Proposed NEC Project is projected to be over 30 percent lower than the development proposed in the MFM District Alternative would have generated.

B. EXISTING CONDITIONS

STUDY AREA ROADWAYS

The Proposed NEC Project is smaller in size than the MFM District Alternative Development Scenario that was studied in the FGEIS. Therefore, based on an initial assessment of project-generated trips, fewer intersections were analyzed in this study than in the traffic analysis for the MFM District Alternative (shown in **Figure F-1**). This study focuses on the intersections most likely to be affected by project-generated traffic. The project site is bounded by Charles Lindbergh Boulevard, a Nassau County road, to the north; Hempstead Turnpike, a New York State highway arterial, to the south; James Doolittle Boulevard, a minor two-lane access road, to the east; and Earle Ovington Boulevard, a County road, to the west. There are access/egress points to the project site along the surrounding roadways including two along Charles Lindbergh Boulevard, three

along Earle Ovington Boulevard, one along Hempstead Turnpike, and one along James Doolittle Boulevard.

The following major roadways are included within the study area:

1. *Charles Lindbergh Boulevard* is an east-west connector roadway that extends between Merrick Avenue to the east and Quentin Roosevelt Boulevard to the west. Adjacent to the project site, this roadway operates primarily with four westbound travel lanes and four eastbound travel lanes, plus a right-turn lane at the Coliseum entrance. A grass median separates the two directions. Curbside parking is prohibited along the entire roadway. The posted speed limit is 45 miles per hour.
2. *Earle Ovington Boulevard* is a north-south connector roadway that extends between Charles Lindbergh Boulevard and Nassau Community College to the north and Hempstead Turnpike to the south; south of Hempstead Turnpike, the roadway turns into Uniondale Avenue. Adjacent to the project site, the roadway operates with between two and three travel lanes in each direction, with left-turn bays at intersections. A grass median separates the two directions. Curbside parking is prohibited along the entire roadway. The posted speed limit is 45 miles per hour.
3. *James Doolittle Boulevard* is a north-south local road that extends between Charles Lindbergh Boulevard to the north and Hempstead Turnpike to the south. The roadway operates with a single travel lane and a painted bicycle lane in both directions. There is no shoulder, and curbside parking is prohibited along the entire length of the roadway. The posted speed limit is 30 miles per hour. The road is used specifically for access to the Marriott Hotel as well as one of the Coliseum parking lots.
4. *Hempstead Turnpike* is an east-west arterial road that operates between the Villages of Bellerose to the west and Farmingdale to the east. Adjacent to the project site, the roadway generally operates with three travel lanes with turn bays at major intersections. There is a shoulder along both the north and south sides of the roadway, and a grass median separates the two directions. The posted speed limit is 50 miles per hour.
5. *Glenn Curtiss Boulevard* is a northwest-southeast oriented roadway that extends between Hempstead Turnpike, opposite the Coliseum south access driveway, to Merrick Avenue opposite Peters Gate to the east. The roadway operates with three travel lanes in each direction, with turn lanes at major intersections. A grass median separates the two directions. There is no shoulder, and curbside parking is prohibited along the entire length of the roadway. The posted speed limit is 40 miles per hour.
6. *Merrick Avenue* is a north-south roadway that extends between Merrick Road to the south and Old Country Road opposite Post Avenue to the north. Adjacent to the project site, the roadway generally operates with two lanes in each direction, with left-turn lanes at intersections. There is no shoulder, and curbside parking is prohibited along the entire length of the roadway. The posted speed limit is 40 miles per hour.

STUDY AREA INTERSECTIONS

The study area consists of eight signalized intersections and eight unsignalized intersections. Given the smaller development program and condensed study area described above, fewer

intersections were studied than in the MFM District Alternative traffic study. **Figure F-1** shows the study area intersections and the surrounding roadway network.

The following intersections are analyzed in this study:

1. Hempstead Turnpike at Earle Ovington Boulevard / Uniondale Avenue (signalized)
2. Hempstead Turnpike at Glenn Curtiss Boulevard (signalized)
3. Hempstead Turnpike at James Doolittle Boulevard (unsignalized)
4. Hempstead Turnpike at Merrick Avenue (signalized)
5. Glenn Curtiss Boulevard at Merrick Avenue (signalized)
6. Charles Lindbergh Boulevard at Merrick Avenue (signalized)
7. Eastbound Charles Lindbergh Boulevard at James Doolittle Boulevard (unsignalized)
8. Eastbound Charles Lindbergh Boulevard at Site Northern Access Drive (unsignalized)
9. Westbound Charles Lindbergh Boulevard U-Turn (unsignalized)
10. Westbound Charles Lindbergh Boulevard at Earle Ovington Boulevard (signalized)
11. Eastbound Charles Lindbergh Boulevard / Coliseum VIP at Earle Ovington Boulevard (signalized)
12. Media / Staff Parking at Earle Ovington Boulevard (unsignalized)
13. Hofstra University / Coliseum Prepaid at Earle Ovington Boulevard (signalized)
14. James Doolittle Boulevard at Hotel North Drive (unsignalized)
15. James Doolittle Boulevard at Hotel Center Drive (unsignalized)
16. James Doolittle Boulevard at Hotel South Drive (unsignalized)

Figure F-1
Study Intersections

EXISTING TRAFFIC VOLUMES

Based on the specific land uses included as part of the Proposed NEC Project, it was determined that the following peak hours would have the highest project-generated traffic volumes and were therefore analyzed in this study:

- Weekday Afternoon peak hour;
- Weekday Pre-Event (evening) peak hour; and
- Saturday Midday peak hour.

The 2010 existing traffic volumes from the MFM District Alternative traffic study were used as the basis for the existing conditions volumes in this study. These volumes were updated to reflect 2013 baseline conditions.

ADJUSTMENTS TO 2010 TRAFFIC VOLUMES

Estimation of Volumes

Because certain pieces of traffic data were not available in the MFM District Alternative traffic study, the following methods were used to estimate those vehicle volumes needed to complete this study. The volumes not available included Coliseum entry/exit volumes at the north gate for the Weekday Afternoon and Saturday Midday peak hours, volumes at the Merrick Avenue intersections during the Weekday Pre-Event peak hour, and volumes at the James Doolittle Boulevard intersections during the Weekday Pre-Event peak hour.

Coliseum Entry/Exit Volumes
To estimate the Weekday Afternoon and Saturday Midday Coliseum entry volumes at the Charles Lindbergh Boulevard access point, the total number of vehicles shown entering the site in the volume diagrams (Figures 5 and 6 from the MFM District Alternative traffic study) was subtracted from the total number of Coliseum entry trips presented in Table 1-1 of the MFM District Alternative traffic study.

Similarly, outbound vehicle trips presented in Table 1-1 that were not shown in the MFM District Alternative traffic study volume diagrams were added to the access point with the highest volumes during each peak hour (the south gate on Hempstead Turnpike during the Weekday Afternoon peak hour and the VIP gate on Earle Ovington Boulevard during the Saturday Midday peak hour).

Merrick Avenue Intersections
To estimate the turning movement volumes at the intersections of Merrick Avenue with Hempstead Turnpike, Glenn Curtiss Boulevard, and Charles Lindbergh Boulevard during the Weekday Pre-Event peak hour, the ratios between the known Weekday Afternoon and Weekday Pre-Event peak hour volumes were used to calculate an adjustment factor. This factor was then applied to Weekday Afternoon peak hour turning movement volumes to estimate the missing Weekday Pre-Event peak hour volumes.

James Doolittle Boulevard Intersections
To estimate the turning movement volumes at the intersections of James Doolittle Boulevard with the Marriott access intersections (Hotel South, Center, and North Drives) during the Weekday Pre-Event peak hour, the ratios between the known Weekday Afternoon and Weekday Pre-Event peak hour entry / exit volumes at both the north and south end of James

Doolittle Boulevard, from the MFM District Alternative traffic study, were used to calculate an adjustment factor. This factor was then applied to Weekday Afternoon peak hour turning movement volumes to estimate the missing Weekday Pre-Event peak hour volumes.

Changes to Background Traffic

To estimate changes in background traffic volumes between 2010 and 2013, bi-directional Automatic Traffic Recorders (ATRs) were installed at four locations adjacent to the project site: Charles Lindbergh Boulevard, Earle Ovington Boulevard, James Doolittle Boulevard, and Hempstead Turnpike. These ATRs recorded traffic volumes over a 7-day period from October 28, 2013 to November 4, 2013, which included the following two Islanders games at the Coliseum:

- Islanders vs. Rangers: Tuesday, October 29, 2013. 7:00 PM start. Attendance: 16,170
- Islanders vs. Bruins: Saturday, November 2, 2013. 1:30 PM start. Attendance: 14,018

Hourly traffic patterns for the four roadways surrounding the project site are shown for the above event dates in Figures 37 through 44 in the Appendix. For Hempstead Turnpike, the highest volume roadway within the study area, the weekday morning peak period occurs between 8:00 AM and 9:00 AM and the weekday PM peak period occurs between 4:00 PM and 6:00 PM. As evidenced by the ATR graph (Figure 40) and supported by field observations, congestion during these peak periods is short-lived, with sharp drop-offs in volume occurring on either side of the peak periods. In fact, traffic volumes are lower by approximately 40% beyond one hour on either side of the AM peak period and by approximately 20% beyond one hour on either side of the PM peak period, with midday volumes settling at approximately 50% of the AM and PM peak hour volumes.

The overall difference between traffic volumes in 2010 and 2013 was calculated for each study peak hour to determine the appropriate adjustment factor. Overall, 2013 traffic volumes were found to have changed by -11 percent, +2 percent, and -5 percent during the Weekday Afternoon, Weekday Evening, and Saturday Midday peak hours, respectively. However, to account for daily variation in traffic volumes and provide a conservative analysis, the Weekday Afternoon adjustment factor was reduced to -5 percent. The differences in hourly traffic data at each count location and overall traffic adjustment factors applied to each peak hour are shown in **Table F-2**.

Table F-2
Volume Adjustment Factors

		Peak Hour Volume					
		Weekday Afternoon		Weekday Pre-Event		Saturday Midday	
		2010	2013	2010	2013	2010	2013
Charles Lindbergh Boulevard	EB	1,856	2,011	2,015	1,751	565	1,052
	WB	1,350	1,471	2,438	2,400	463	940
Earle Ovington Boulevard	NB	1,220	1,173	932	1,163	822	773
	SB	1,519	1,329	1,219	1,150	993	701
James Doolittle Boulevard	NB	60	47	185	74	85	224
	SB	57	89	103	157	70	84
Hempstead Turnpike	EB	2,934	2,325	1,934	2,111	2,232	1,652
	WB	2,571	1,940	1,454	1,644	1,835	1,294
Total		**11,567**	**10,385**	**10,280**	**10,450**	**7,065**	**6,720**
Percent Difference		**-11%**		**+2%**		**-5%**	
Adjustment Factor		**-5%**		**+2%**		**-5%**	

2013 Existing Condition Traffic Volumes

These factors were applied to 2010 background traffic volumes and Coliseum traffic volumes were then added back into the network to develop the 2013 Existing Traffic Volumes. **Figures F-2 through F-4** show the 2013 Existing Condition traffic volumes for the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively.

Figure F-2
2013 Existing Condition Traffic Volumes – Weekday Afternoon

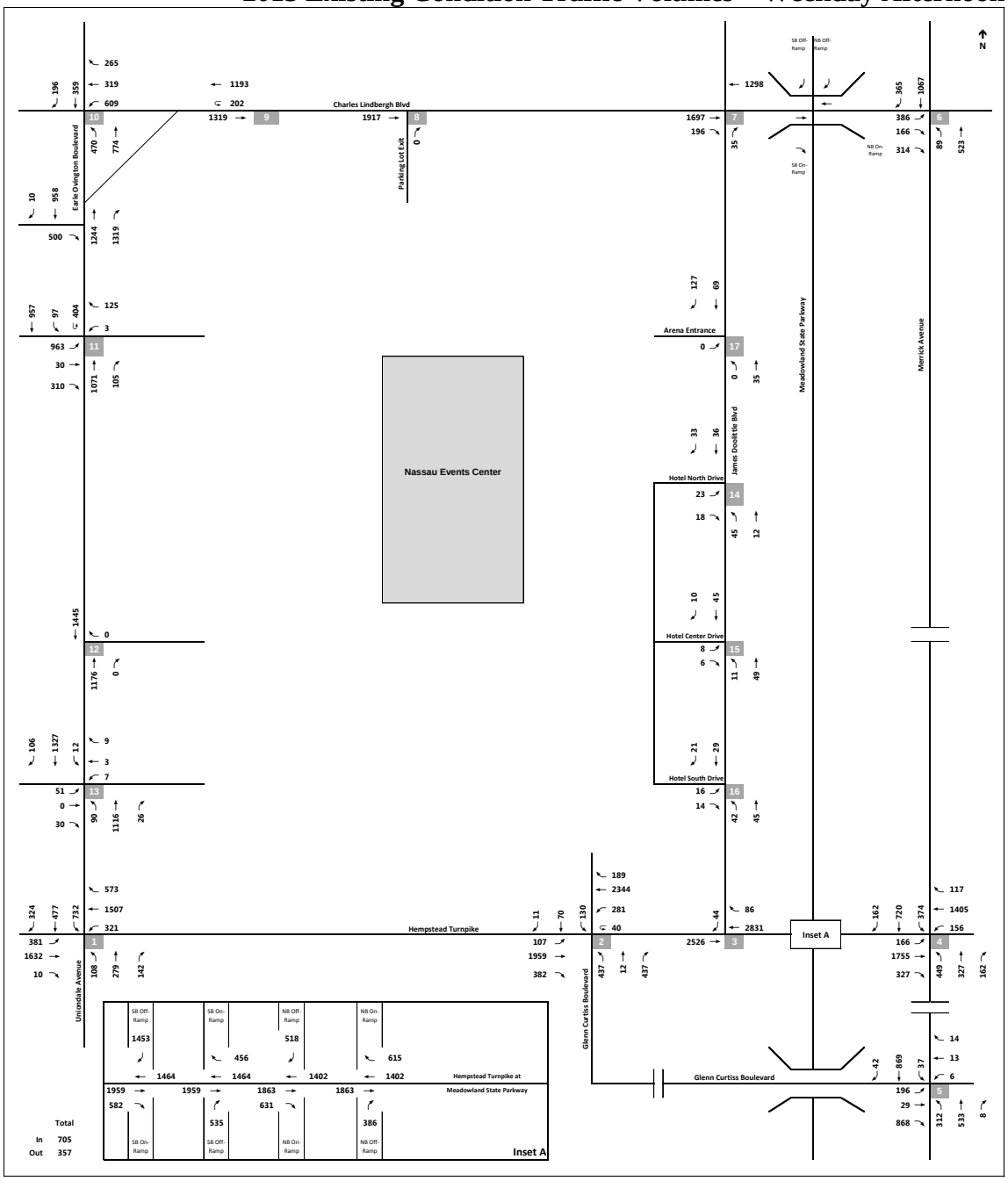


Figure F-3
2013 Existing Condition Traffic Volumes – Weekday Pre-Event

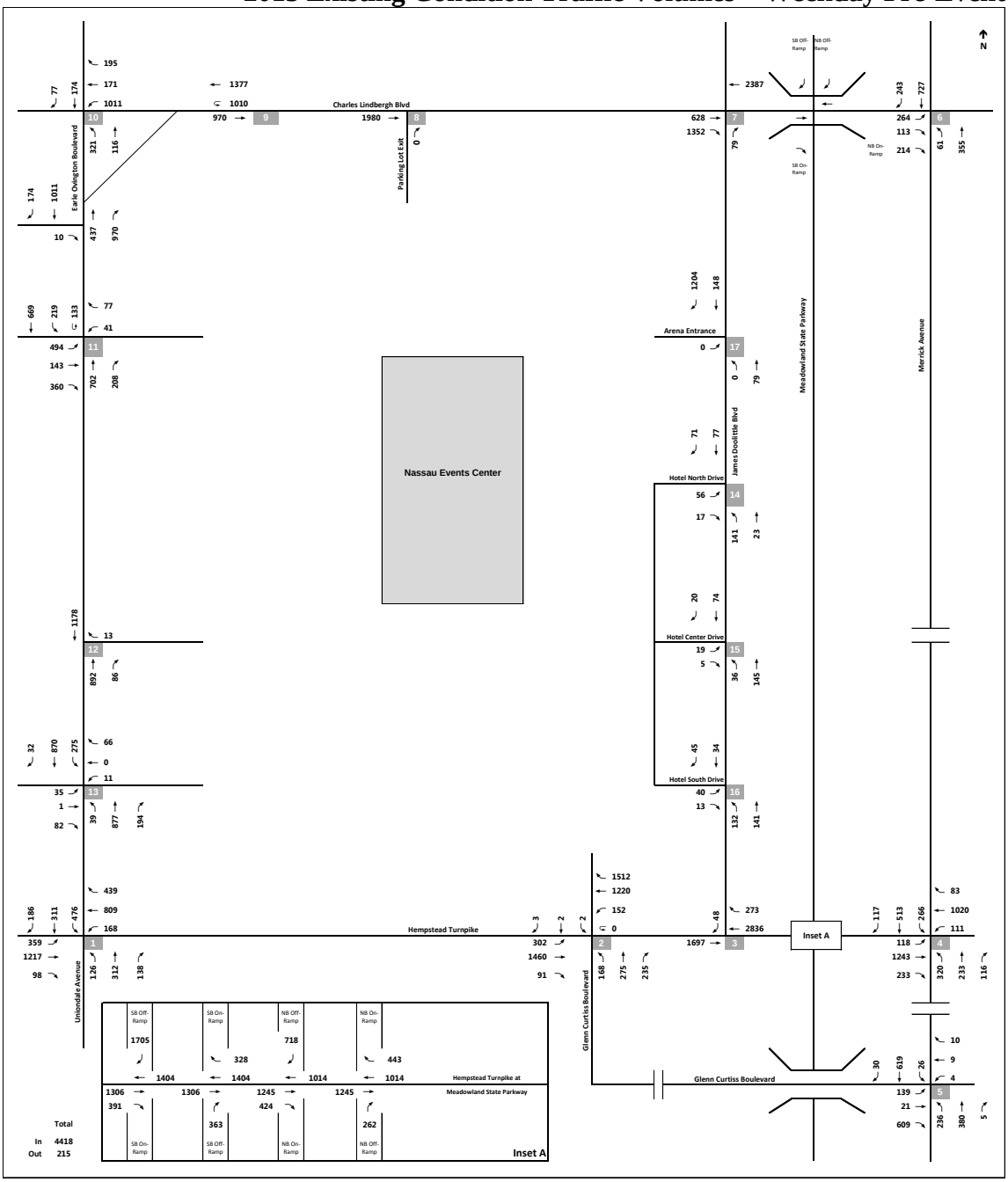
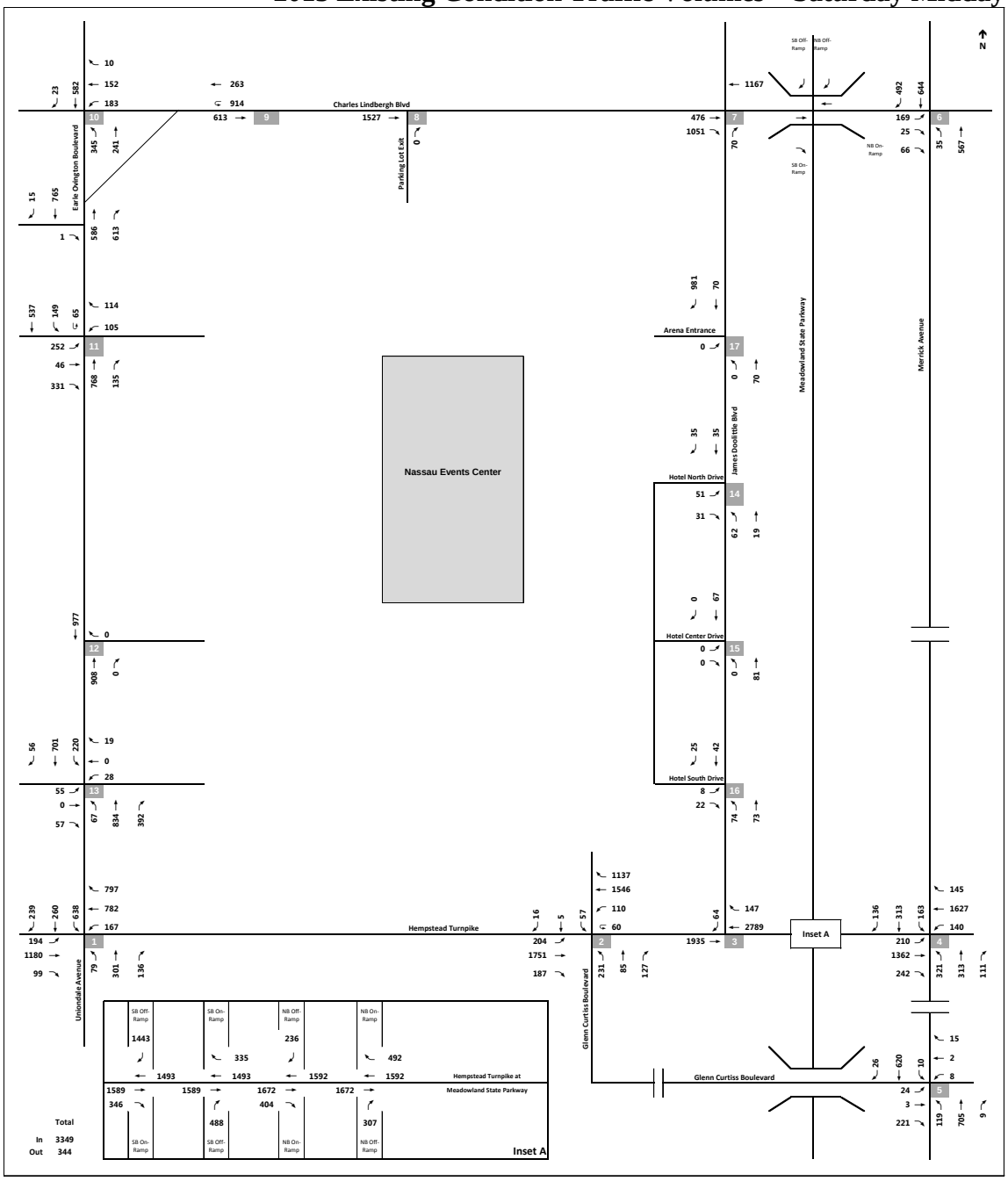


Figure F-4
2013 Existing Condition Traffic Volumes – Saturday Midday



CAPACITY ANALYSIS PROCEDURES

The operations of the study area intersections were analyzed using the micro-simulation software Synchro and SimTraffic 8 using the average results from five SimTraffic simulation runs for each scenario and peak hour (15-minute seeding time and one-hour recording time), 95th-percentile queue lengths and vehicle delays were computed and compared to queue storage lengths and LOS criteria from the 2000 Highway Capacity Manual (HCM). A description of level of service methodologies is provided below.

SIGNALIZED INTERSECTIONS

The level of service (LOS) of a signalized intersection is defined in terms of control delay per vehicle (seconds per vehicle). Control delay is the portion of total delay experienced by a motorist that is attributed to the traffic signal. Several factors contribute to the delay at a signalized intersection including cycle length, progression/signal coordination, and volume/capacity (v/c) ratios. For signalized intersections, LOS A describes operations with minimal delays, up to 10 seconds per vehicle, while LOS F describes operations with delays in excess of 80 seconds per vehicle. Delays experienced at LOS A, B, C or D (less than 55 seconds per vehicle) are generally considered "acceptable" operating conditions. Conversely, LOS E and F are generally considered "unacceptable" operating conditions. The LOS criteria for signalized intersections, as defined in the 2000 HCM, are provided in **Table F-3**.

Table F-3
Level of Service Criteria for Signalized Intersections

Level-of-Service (LOS)	Average Delay (Seconds)
A	≤ 10.0
B	> 10.0 to ≤ 20.0
C	> 20.0 to ≤ 35.0
D	> 35.0 to ≤ 55.0
E	> 55.0 to ≤ 80.0
F	> 80.0

Source: Transportation Research Board. *Highway Capacity Manual*, 2000.

The 2000 HCM provides a more detailed and qualitative description of each level as follows:

> "*LOS A* – describes operations with very low delay, i.e., less than or equal to 10.0 seconds per vehicle. This occurs when progression is extremely favorable and most vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delays.
>
> *LOS B* – describes operations with delays in the range of 10.1 to 20.0 seconds per vehicle. This generally occurs with good progression and/or cycle lengths. More vehicles stop than for LOS A, causing higher levels of average delay.
>
> *LOS C* – describes operations with delay in the range of 20.1 to 35.0 seconds per vehicle. These higher delays may result from fair progression and/or short cycle lengths. Individual cycle failures may begin to appear in this level. The number of vehicles stopping is significant, although many still pass through the intersection without stopping.
>
> *LOS D* – describes operations with delay in the range of 35.1 to 55.0 seconds per vehicle. At LOS D, the influence of congestion becomes more noticeable. Longer delays may result from

some combination of unfavorable progression, long cycle lengths or high volume to capacity (V/C) ratios. Many vehicles stop and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.

LOS E – describes operations with delay in the range of 55.1 to 80.0 seconds per vehicle. This is considered to be the limit of acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high V/C ratios. Individual cycle failures are frequent occurrences.

LOS F – describes operations with delay in excess of 80.0 seconds per vehicle. This is considered to be unacceptable to most drivers. This condition often occurs with oversaturation, i.e. when arrival flow rates exceed the capacity of the intersection. It may also occur at high V/C ratios below 1.00 with many individual cycle failures. Poor progression and long cycle lengths may also be major contributing causes to such delay levels."

UNSIGNALIZED INTERSECTIONS

For unsignalized intersections, the total delay is defined as the total elapsed time from which a vehicle stops at the end of the queue until the vehicle departs from the stop line. This includes the time required for the vehicle to travel from the last-in-queue to the first-in-queue position. The average control delay for any particular minor movement is a function of the service rate or capacity of the approach and the degree of saturation. The LOS thresholds for unsignalized intersections are different from those for signalized intersections and are summarized in **Table F-4** as follows:

Table F-4
LOS Criteria for Unsignalized Intersections

Level-of-Service (LOS)	Average Delay
A	≤ 10.0 seconds
B	> 10.0 and ≤ 15.0 seconds
C	> 15.0 and ≤ 25.0 seconds
D	> 25.0 and ≤ 35.0 seconds
E	> 35.0 and ≤ 50.0 seconds
F	> 50.0 seconds
Source: Transportation Research Board. *Highway Capacity Manual*, 2000.	

CAPACITY ANALYSIS RESULTS

Table F-5 presents the capacity analysis results for the intersections analyzed in the study area. The results of the existing conditions capacity analysis are summarized below for the Weekday Afternoon, Weekday Pre-Event and Saturday Midday peak hours.

Intersection 1: Hempstead Turnpike & Earle Ovington Boulevard / Uniondale Avenue

The signalized intersection of Hempstead Turnpike and Earle Ovington Boulevard currently operates at an overall LOS F, E, and E during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively. Certain lane groups during Weekday Pre-Event and Saturday Midday peak hours would operate at LOS F for all of the approaches.

Intersection 2: Hempstead Turnpike & Glenn Curtiss Boulevard

The signalized intersection of Hempstead Turnpike and Glenn Curtiss Boulevard currently operates at an overall LOS E, E, and C during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively. Certain lane groups in each of the peak hours operate at LOS F for all of the approaches.

Intersection 3: Hempstead Turnpike & James Doolittle Boulevard

At the unsignalized intersection of Hempstead Turnpike and James Doolittle Boulevard, the stop-controlled James Doolittle Boulevard SB approach currently operates at LOS B, F, and F during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively.

Intersection 4: Hempstead Turnpike & Merrick Avenue

The signalized intersection of Hempstead Turnpike and Merrick Avenue currently operates at an overall LOS E, D, and E during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively. Certain lane groups in each of the peak hours operate at LOS F for all of the approaches.

Intersection 5: Glenn Curtiss Boulevard & Merrick Avenue

The signalized intersection of Glenn Curtiss Boulevard and Merrick Avenue currently operates at an overall LOS C, B, and A during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively.

Intersection 6: Charles Lindbergh Boulevard & Merrick Avenue

The signalized intersection of Charles Lindbergh Boulevard and Merrick Avenue currently operates at an overall LOS B, A, and A during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively.

Intersection 7: Eastbound Charles Lindbergh Boulevard & James Doolittle Boulevard

At the unsignalized intersection of Eastbound Charles Lindbergh Boulevard & James Doolittle Boulevard, the yield-controlled James Doolittle Boulevard NB approach currently operates at LOS A during all three peak hours.

Intersection 10: Westbound Charles Lindbergh Boulevard & Earle Ovington Boulevard

The signalized intersection of Westbound Charles Lindbergh Boulevard and Earle Ovington Boulevard currently operates at an overall LOS C, C, and B during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively.

Intersection 11: Eastbound Charles Lindbergh Boulevard / Coliseum VIP & Earle Ovington Boulevard

The signalized intersection of Eastbound Charles Lindbergh Boulevard (opposite the Coliseum's VIP parking lot entrance) and Earle Ovington Boulevard currently operates at an overall LOS D, C, and B during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively. Certain lane groups during the Weekday Afternoon peak hour operate at LOS F for the westbound and southbound approaches.

Intersection 12: Media / Staff Parking & Earle Ovington Boulevard

At the unsignalized intersection of the media/staff parking lot driveway with Earle Ovington Boulevard, the stop-controlled WB driveway approach currently operates at LOS A during all three peak hours.

Intersection 13: Hofstra University / Coliseum Prepaid & Earle Ovington Boulevard

The signalized intersection of the Hofstra University access drive (opposite the Coliseum's prepaid parking lot entrance) and Earle Ovington Boulevard currently operates at an overall LOS A, B, and B during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively. Certain lane groups during Saturday Midday peak hour operate at LOS F for the southbound approach.

Intersection 14: James Doolittle Boulevard & Hotel North Drive

At the unsignalized intersection of James Doolittle Boulevard and the Hotel North Drive, the stop-controlled EB driveway approach currently operates at LOS A, F, and F during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively.

Intersection 15: James Doolittle Boulevard & Hotel Center Drive

At the unsignalized intersection of James Doolittle Boulevard and the Hotel Center Drive, the stop-controlled EB driveway approach currently operates at LOS A, F, and A during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively.

Intersection 16: James Doolittle Boulevard & Hotel South Drive

At the unsignalized intersection of James Doolittle Boulevard and the Hotel South Drive, the stop-controlled EB driveway approach currently operates at LOS A, F, and F during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively.

Table F-5
Existing Conditions LOS

#	Intersection & Approach	Lane	Storage Length / Link Distance (ft)	Weekday Afternoon Peak Hour			Weekday Pre-Event Peak Hour			Saturday Midday Peak Hour		
				LOS	Delay (sec)	95th Percentile Queue Length (ft)	LOS	Delay (sec)	95th Percentile Queue Length (ft)	LOS	Delay (sec)	95th Percentile Queue Length (ft)
1	**Hempstead Turnpike & Earle Ovington Boulevard / Uniondale Avenue**											
	Eastbound	L	240	F	271.0	397	F	256.4	437	F	259.7	375
		T	1415	F	208.4	1234	F	99.7	1109	E	64.0	525
		R	200	D	44.9	153	C	28.4	137	D	36.1	142
		Approach		F	164.4		F	90.6		E	71.3	
	Westbound	L	150	F	89.3	334	F	83.9	126	E	74.5	116
		T	1856	F	96.5	601	D	48.5	179	F	84.0	232
		R	210	A	3.6	393	A	2.7	0	A	4.1	39
		Approach		E	63.0		C	34.1		D	35.8	
	Northbound	L	75	F	90.0	187	E	79.4	185	E	58.4	173
		LT	142	F	152.5	241	F	141.6	258	F	116.0	266
		TR	142	F	143.8	244	F	156.6	229	F	139.0	231
		Approach		F	139.9		F	138.9		F	122.0	
	Southbound	L	200	E	57.1	350	D	45.8	279	D	35.4	318
		LT	846	F	116.8	752	E	57.3	307	D	49.0	383
		TR	846	F	117.4	726	E	58.2	305	D	49.1	364
		R	846	F	103.1	646	D	52.6	264	D	38.7	308
		Approach		F	99.3		D	53.9		D	44.1	
		Int.		**F**	**106.5**		**E**	**71.9**		**E**	**57.4**	
2	**Hempstead Turnpike & Glenn Curtiss Boulevard**											
	Eastbound	L	250	E	75.3	112	F	89.8	235	F	93.6	172
		T	1856	D	41.7	371	B	17.5	169	C	26.4	292
		R	235	A	3.0	238	A	2.4	0	A	2.7	49
		Approach		C	31.7		C	24.1		C	28.5	
	Westbound	UL	540	E	73.4	234	D	49.4	116	E	74.0	132
		L	540	F	91.4	277	F	86.3	138	E	68.7	117
		T	1325	C	30.4	534	B	17.3	217	C	26.1	470
		TR	1325	D	36.8	595	D	39.8	549	E	63.9	867
		R	150	A	2.0	351	A	1.6	115	A	2.2	363
		Approach		D	36.9		C	21.7		C	32.4	
	Northbound	L	1600	F	275.3	566	F	106.2	564	E	61.7	169
		LT	1600	F	291.6	580	F	313.5	547	E	78.7	258
		TR	1600	F	397.1	524	F	336.8	555	E	62.1	208
		R	1600	F	398.6	534	F	294.2	550	C	32.6	121
		Approach		F	341.9		F	279.6		E	66.7	
	Southbound	L	153	F	81.0	163	E	57.3	14	E	61.1	89
		LT	153	E	60.9	144	E	69.7	20	D	52.5	51
		TR	153	D	46.7	84	E	57.2	20	E	61.4	29
		R	153	D	54.0	14	E	77.9	11	E	64.8	30
		Approach		E	68.4		E	63.1		E	60.1	
		Int.		**E**	**70.1**		**E**	**58.3**		**C**	**34.0**	
3	**Hempstead Turnpike & James Doolittle Boulevard (Unsignalized)**											
	Southbound	R	408	B	11.9	59	F	3315.1	475	F	2675.1	447
4	**Hempstead Turnpike & Merrick Avenue**											
	Eastbound	L	165	F	94.2	253	F	82.3	251	F	221.4	217
		T	625	F	113.2	760	D	48.8	489	F	562.9	857
		R	165	A	6.8	296	A	5.6	188	A	2.0	156
		Approach		F	92.3		D	38.3		F	97.3	
	Westbound	L	480	E	74.9	250	E	70.7	174	F	166.2	379
		T	1070	D	54.6	457	D	40.4	346	D	40.2	421
		TR	140	C	26.1	253	C	22.5	150	B	17.9	220
		Approach		D	46.2		D	38.1		D	42.2	
	Northbound	L	325	F	176.1	482	E	77.9	229	E	64.4	200
		T	807	F	86.3	772	D	51.4	209	D	45.5	217
		TR	807	E	57.2	430	E	57.6	244	D	52.7	252
		Approach		F	114.3		E	62.2		D	53.1	
	Southbound	L	898	F	96.9	317	F	88.7	214	D	50.8	112
		T	1715	F	80.6	575	E	55.6	344	E	56.4	206
		R	150	C	25.8	275	C	34.8	247	D	37.0	190
		Approach		E	72.3		E	57.8		D	47.9	
		Int.		**E**	**78.7**		**D**	**46.0**		**E**	**60.2**	

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service.
For unsignalized intersections, results are only reported for the controlled movements.

Table F-5 (Cont'd)
Existing Conditions LOS

#	Intersection & Approach	Lane	Storage Length / Link Distance (ft)	Weekday Afternoon Peak Hour			Weekday Pre-Event Peak Hour			Saturday Midday Peak Hour		
				LOS	Delay (sec)	95th Percentile Queue Length (ft)	LOS	Delay (sec)	95th Percentile Queue Length (ft)	LOS	Delay (sec)	95th Percentile Queue Length (ft)
	Glenn Curtiss Boulevard & Merrick Avenue											
	Eastbound	LT	729	C	25.0	168	C	26.5	132	C	24.6	46
		R	729	A	9.2	205	A	6.0	153	A	2.6	57
		Approach		B	11.1		A	9.4		A	4.8	
	Westbound	LTR	211	B	14.2	49	B	15.8	41	B	10.6	41
		Approach		B	14.2		B	16.5		B	10.6	
	Northbound	L	450	B	19.5	122	B	13.0	85	A	8.2	68
5		T	1015	B	14.0	146	B	12.8	99	A	8.7	113
		TR	1015	B	11.2	135	A	7.2	86	A	4.8	111
		Approach		B	15.0		B	11.2		A	7.1	
	Southbound	L	100	C	27.6	102	B	17.6	68	B	11.7	23
		T	1285	C	34.5	412	B	19.4	250	B	11.6	136
		TR	1285	D	35.6	424	B	17.8	267	A	9.2	161
		Approach		C	34.8		B	18.4		B	10.1	
		Int.		**C**	**21.1**		**B**	**13.4**		**A**	**7.9**	
	Charles Lindbergh Boulevard & Merrick Avenue											
	Eastbound	L	1300	B	15.9	67	B	17.1	65	C	21.8	63
		Approach		B	13.6		B	16.9		C	20.7	
	Northbound	L	225	C	27.7	119	B	18.1	81	B	13.4	56
6		T	775	B	10.6	154	A	7.2	108	A	6.6	129
		Approach		B	12.4		A	8.6		A	7.0	
	Southbound	T	2560	B	19.5	332	A	9.3	149	A	8.9	111
		R	180	A	2.3	185	A	1.8	51	A	2.8	114
		Approach		B	14.0		A	7.0		A	5.4	
		Int.		**B**	**13.6**		**A**	**8.9**		**A**	**7.3**	
7	**Eastbound Charles Lindbergh Boulevard & James Doolittle Boulevard (Unsignalized)**											
	Northbound	R	709	A	0.2	0	A	0.2	0	A	0.2	0
8	**Eastbound Charles Lindbergh Boulevard & Site Northern Access Drive (Unsignalized)**											
	Northbound	R		Access gate closed during this peak hour			Access gate closed during this peak hour			Access gate closed during this peak hour		
9	**Charles Lindbergh Boulevard & Westbound U-Turn (Uncontrolled)**											
	Eastbound	T		Intersection is uncontrolled			Intersection is uncontrolled			Intersection is uncontrolled		
	Westbound Charles Lindbergh Boulevard & Earle Ovington Boulevard											
	Westbound	L	140	C	20.8	243	B	14.8	248	B	17.8	98
		LT	1300	C	29.0	276	C	22.0	292	C	22.5	116
		TR	1300	C	29.4	261	C	32.9	300	B	17.9	92
		R	1300	A	8.3	223	A	7.7	241	B	10.8	15
		Approach		C	24.7		C	20.3		B	19.9	
10	Northbound	L	540	D	47.2	250	C	33.5	150	C	31.6	151
		T	540	B	15.7	196	B	13.1	54	A	7.7	70
		Approach		C	24.6		C	24.7		B	19.0	
	Southbound	T	665	C	30.9	203	C	25.8	122	C	21.9	223
		TR	665	B	13.3	204	B	10.7	81	B	14.1	188
		Approach		C	21.7		B	18.7		B	19.2	
		Int.		**C**	**24.0**		**C**	**21.0**		**B**	**19.3**	

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service.
For unsignalized intersections, results are only reported for the controlled movements.

Table F-5 (Cont'd)
Existing Conditions LOS

#	Intersection & Approach	Lane	Storage Length / Link Distance (ft)	Weekday Afternoon Peak Hour			Weekday Pre-Event Peak Hour			Saturday Midday Peak Hour		
				LOS	Delay (sec)	95th Percentile Queue Length (ft)	LOS	Delay (sec)	95th Percentile Queue Length (ft)	LOS	Delay (sec)	95th Percentile Queue Length (ft)
11	**Eastbound Charles Lindbergh Boulevard / Coliseum VIP & Earle Ovington Boulevard**											
	Eastbound	L	1085	E	59.7	638	D	46.6	378	C	22.1	115
		T	1085	D	51.4	68	D	36.5	153	C	34.1	67
		R	1085	A	0.4	0	A	0.9	0	A	0.7	0
		Approach		D	45.7		C	26.2		B	11.5	
	Westbound	L	284	F	80.9	11	E	59.6	72	C	29.5	99
		R	284	A	2.2	0	A	8.6	59	A	2.0	0
		Approach		A	3.5		C	23.9		B	14.8	
	Northbound	T	534	E	66.3	392	D	52.5	308	C	26.8	221
		R	534	A	10.0	73	A	8.5	95	A	4.2	66
		Approach		E	56.6		D	41.0		C	22.6	
	Southbound	UL	175	D	50.6	254	C	20.1	213	B	14.2	123
		T	940	F	84.3	549	B	16.7	218	A	8.8	108
		Approach		E	58.4		B	16.4		A	9.6	
		Int.		**D**	**52.0**		**C**	**26.8**		**B**	**14.9**	
12	**Media / Staff Parking & Earle Ovington Boulevard (Unsignalized)**											
	Westbound	R	201	No volume observed during this peak hour			A	6.2	37	No volume observed during this peak hour		
13	**Hofstra University / Coliseum Prepaid & Earle Ovington Boulevard**											
	Eastbound	LT	343	C	21.6	42	C	21.7	34	C	22.6	52
		R	343	A	6.5	45	A	5.9	55	A	4.7	50
		Approach		B	16.1		A	9.9		B	13.1	
	Westbound	L	432	C	32.3	9	C	28.4	15	C	31.5	28
		T	432	D	38.2	13	A	0.0	0	A	0.0	0
		R	432	A	4.5	24	A	4.0	48	A	5.5	34
		Approach		B	19.6		A	7.6		C	21.0	
	Northbound	L	150	D	42.8	90	B	17.1	15	B	12.3	27
		T	846	B	13.4	38	B	15.8	133	C	27.3	124
		R	500	A	1.3	0	A	1.5	2	A	2.5	19
		Approach		B	12.7		B	10.3		B	12.1	
	Southbound	L	150	B	17.2	6	D	47.7	240	F	81.5	254
		T	870	A	5.1	86	B	11.0	247	B	15.8	257
		TR	520	A	4.9	66	A	3.3	32	A	3.6	26
		Approach		A	4.9		B	15.5		C	23.0	
		Int.		**A**	**8.7**		**B**	**12.8**		**B**	**17.0**	
14	**James Doolittle Boulevard & Hotel North Drive (Unsignalized)**											
	Eastbound	LR	124	A	3.5	46	F	95.8	125	F	134.1	135
15	**James Doolittle Boulevard & Hotel Center Drive (Unsignalized)**											
	Eastbound	LR	183	A	3.7	38	F	456.9	164	A	0.0	0
16	**James Doolittle Boulevard & Hotel South Drive (Unsignalized)**											
	Eastbound	LR	270	A	3.6	44	F	933.9	334	F	2104.3	343
		Approach		A	3.6		F	933.9		F	2104.3	

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service
For unsignalized intersections, results are only reported for the controlled movements.

EXISTING PARKING CAPACITY

The existing parking demand at the Nassau Coliseum is currently accommodated by approximately **6,786**[1] parking spaces on-site.

C. THE FUTURE WITHOUT THE PROPOSED PROJECT

The future without the proposed project (or No Build condition) incorporates a background growth factor on top of the existing conditions analysis together with traffic volumes generated by other nearby projects expected to be in operation by the time construction for the Proposed NEC Project is completed.

An annual background growth rate of 0.6 percent was applied over a period of four years to the Build year of 2017. This growth rate is the same rate used in the MFM District Alternative traffic study. Since the Coliseum-generated traffic volumes would not be affected by trends in background traffic, the background growth rate was applied only to the non-Coliseum, background traffic in the 2013 existing traffic volume network.

There are three known significant development projects that are expected to be completed by 2017 and would generate additional traffic volumes within the study area. Roosevelt Field Mall, located nearby in Garden City, will be expanded with a new 100,000 square-foot (sf) building anchored by Neiman Marcus. The new property will accommodate several other stores as well as a new parking structure. Additionally, a new 145-room hotel, Courtyard by Marriott, is proposed to be constructed on the southwest corner of Merrick Avenue and Privado Road. The trips generated by these two development projects were assigned to the study network based on assignments in their individual traffic studies, prepared by VHB.

The third significant development project is the expansion of the Hofstra North Shore – LIJ School of Medicine. A new 65,000 sf expansion to the existing school was completed in March 2015. The building is located in the center of the campus near the main driveway along the north side of Hempstead Turnpike. **Table F-6** lists the transportation planning assumptions used to estimate the number of trips generated by the new building, and detailed trip generation estimates are shown in **Table F-7**.

Trips generated by the three No Build development projects were assigned to the study network and added to the baseline 2017 traffic volumes to estimate the 2017 No Build condition traffic volume network. Additional traffic volumes projected for each of the No Build projects as well as the background growth for all three peak hours are shown in the Appendix.

[1] DGEIS for the Lighthouse at Long Island, June 2009.

Table F-6
Trip Generation Assumptions for Hofstra North Shore – LIJ School of Medicine Expansion

		Land Use	University (540)	
Program Size		Size	65,000	
		Unit	gsf	
Peak Hour Average Vehicle Trip Rate			(1)	
		Weekday Afternoon	2.54	
		Weekday Pre-Event	2.54	
		Saturday Midday	1.42	
		Unit	per 1,000 gsf	
Linked Trips Credit (2)			0%	
Alternative Mode Reduction (3)			5%	
Internal Capture Trip Rate (4)			0%	
Directional Distribution			(1)	
			In	**Out**
		Weekday Afternoon	58%	42%
		Weekday Pre-Event	58%	42%
		Saturday Midday	57%	43%

Notes & Sources:

(1) Institute of Transportation Engineers. *Trip Generation Manual, 9th Edition* : Junior/Community College (540). Weekday Pre-Event assumed to be to the same as the Weekday Afternoon peak hour.

(2) Assumes no linked trip credit.

(3) 5% alternative mode trips (transit and ride sharing trips) derived from The Lighthouse at Long Island FGEIS Appenix E-1, Page 42.

(4) Assumes no internally captured trips.

Table F-7
Trip Generation for Hofstra North Shore – LIJ School of Medicine Expansion

	Land Use	University (540)	
Peak Hour Trips	Weekday Afternoon	165	
	Weekday Pre-Event	165	
	Saturday Midday	92	
Total Trip Ends By Direction		**In**	**Out**
	Weekday Afternoon	96	69
	Weekday Pre-Event	96	69
	Saturday Midday	53	40
		University	
		In	**Out**
Internal Capture Trip Ends	Weekday Afternoon	0	0
	Weekday Pre-Event	0	0
	Saturday Midday	0	0
External Trip Ends	Weekday Afternoon	96	69
	Weekday Pre-Event	96	69
	Saturday Midday	53	40
Linked Trip Ends	Weekday Afternoon	0	0
	Weekday Pre-Event	0	0
	Saturday Midday	0	0
Primary Trip Ends	Weekday Afternoon	96	69
	Weekday Pre-Event	96	69
	Saturday Midday	53	40
Alternative Mode Trip Ends (5% All Uses)	Weekday Afternoon	-5	-3
	Weekday Pre-Event	-5	-3
	Saturday Midday	-3	-2
Primary Vehicle Trip Ends (95% All Uses)	Weekday Afternoon	91	66
	Weekday Pre-Event	91	66
	Saturday Midday	50	38

TRAFFIC CONDITIONS

Figures F-5 through F-7 show the 2017 No Build condition traffic volumes for the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively. **Table F-8** presents the capacity analysis results for the No Build condition for each of the study intersections. The results of the No Build condition capacity analysis are summarized below for the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours.

Intersection 1: Hempstead Turnpike & Earle Ovington Boulevard / Uniondale Avenue

The signalized intersection of Hempstead Turnpike and Earle Ovington Boulevard would operate at an overall LOS F, E, and E during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively. Certain lane groups during Weekday Pre-Event and Saturday Midday peak hours would operate at LOS F for all of the approaches.

Intersection 2: Hempstead Turnpike & Glenn Curtiss Boulevard

The signalized intersection of Hempstead Turnpike and Glenn Curtiss Boulevard would operate at an overall LOS E, E, and D during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively. Certain lane groups during each of the peak hours would operate at LOS F for all of the approaches.

Intersection 3: Hempstead Turnpike & James Doolittle Boulevard

At the unsignalized intersection of Hempstead Turnpike and James Doolittle Boulevard, the stop-controlled James Doolittle Boulevard SB approach would operate at LOS D, F, and F during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively.

Intersection 4: Hempstead Turnpike & Merrick Avenue

The signalized intersection of Hempstead Turnpike and Merrick Avenue would operate at an overall LOS F, D, and E during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively. Certain lane groups during Weekday Pre-Event and Saturday Midday peak hours would operate at LOS F for the eastbound, westbound, and southbound approaches.

Intersection 5: Glenn Curtiss Boulevard & Merrick Avenue

The signalized intersection of Glenn Curtiss Boulevard and Merrick Avenue would operate at an overall LOS C, B, and A during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively.

Intersection 6: Charles Lindbergh Boulevard & Merrick Avenue

The signalized intersection of Charles Lindbergh Boulevard and Merrick Avenue would operate at an overall LOS B, A, and A during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively.

Intersection 7: Eastbound Charles Lindbergh Boulevard & James Doolittle Boulevard

At the unsignalized intersection of Eastbound Charles Lindbergh Boulevard & James Doolittle Boulevard, the yield-controlled James Doolittle Boulevard NB approach would operate at LOS A during all three peak hours.

Intersection 10: Westbound Charles Lindbergh Boulevard & Earle Ovington Boulevard

The signalized intersection of Westbound Charles Lindbergh Boulevard and Merrick Avenue would operate at an overall LOS C during all three peak hours.

Intersection 11: Eastbound Charles Lindbergh Boulevard / Coliseum VIP & Earle Ovington Boulevard

The signalized intersection of Eastbound Charles Lindbergh Boulevard (opposite the Coliseum's VIP parking lot entrance) and Earle Ovington Boulevard would operate at an overall LOS D, C, and B during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively. Certain lane groups during Weekday Afternoon peak hour would operate at LOS F for the westbound approach.

Intersection 12: Media / Staff Parking & Earle Ovington Boulevard

At the unsignalized intersection of the media/staff parking lot driveway with Earle Ovington Boulevard, the stop-controlled WB driveway approach would operate at LOS A during all three peak hours.

Intersection 13: Hofstra University / Coliseum Prepaid & Earle Ovington Boulevard

The signalized intersection of the Hofstra University access drive (opposite the Coliseum's prepaid parking lot entrance) and Earle Ovington Boulevard would operate at an overall LOS B during all three peak hours. Certain lane groups during Saturday Midday peak hour would operate at LOS F for the southbound approach.

Intersection 14: James Doolittle Boulevard & Hotel North Drive

At the unsignalized intersection of James Doolittle Boulevard and the Hotel North Drive, the stop-controlled EB driveway approach would operate at LOS A, F, and F during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively.

Intersection 15: James Doolittle Boulevard & Hotel Center Drive

At the unsignalized intersection of James Doolittle Boulevard and the Hotel Center Drive, the stop-controlled EB driveway approach would operate at LOS A, F, and A during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively.

Intersection 16: James Doolittle Boulevard & Hotel South Drive

At the unsignalized intersection of James Doolittle Boulevard and the Hotel South Drive, the stop-controlled EB driveway approach would operate at LOS A, F, and F during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively.

Figure F-5
2017 No Build Condition Traffic Volumes – Weekday Afternoon

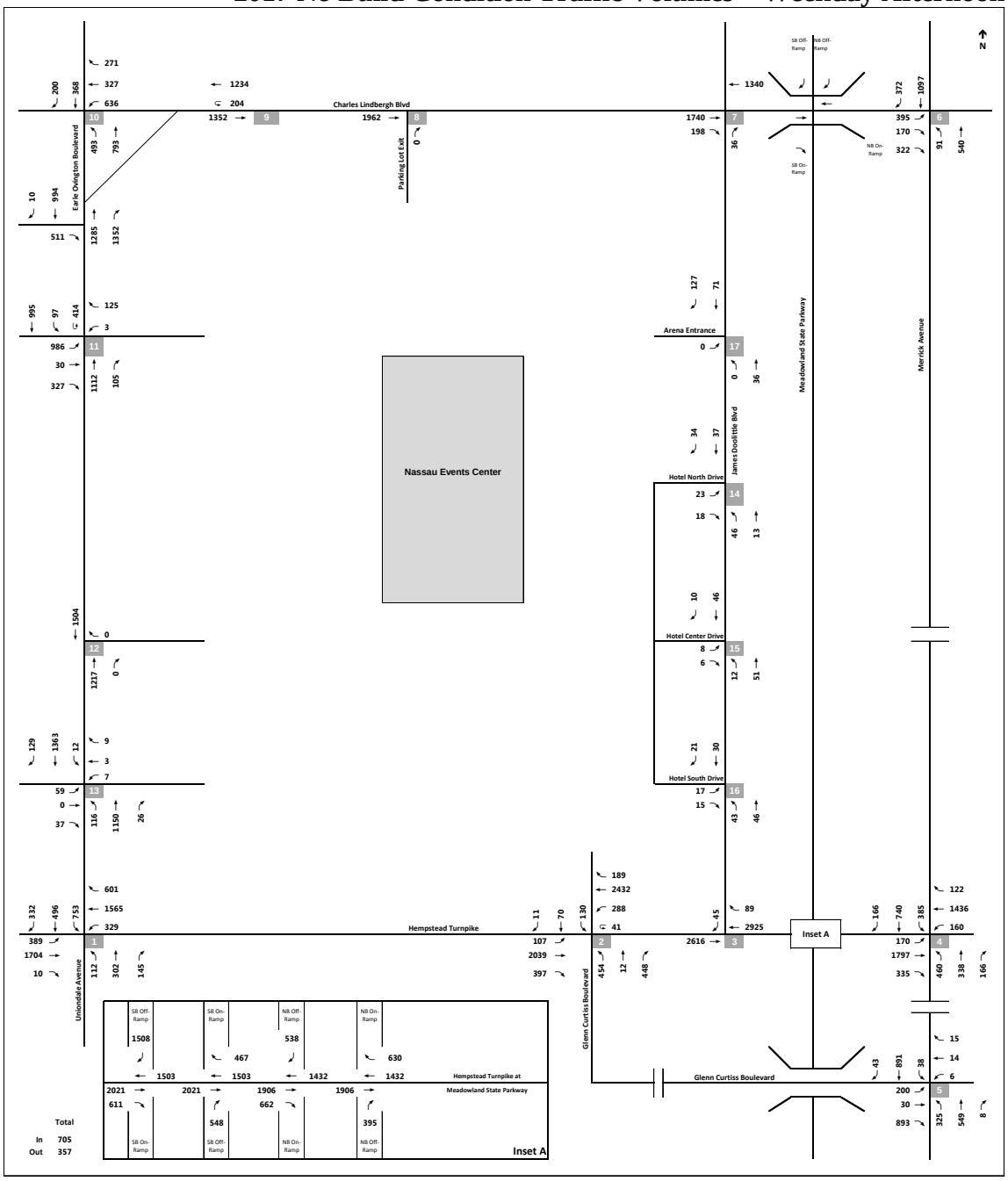


Figure F-6
2017 No Build Condition Traffic Volumes – Weekday Pre-Event

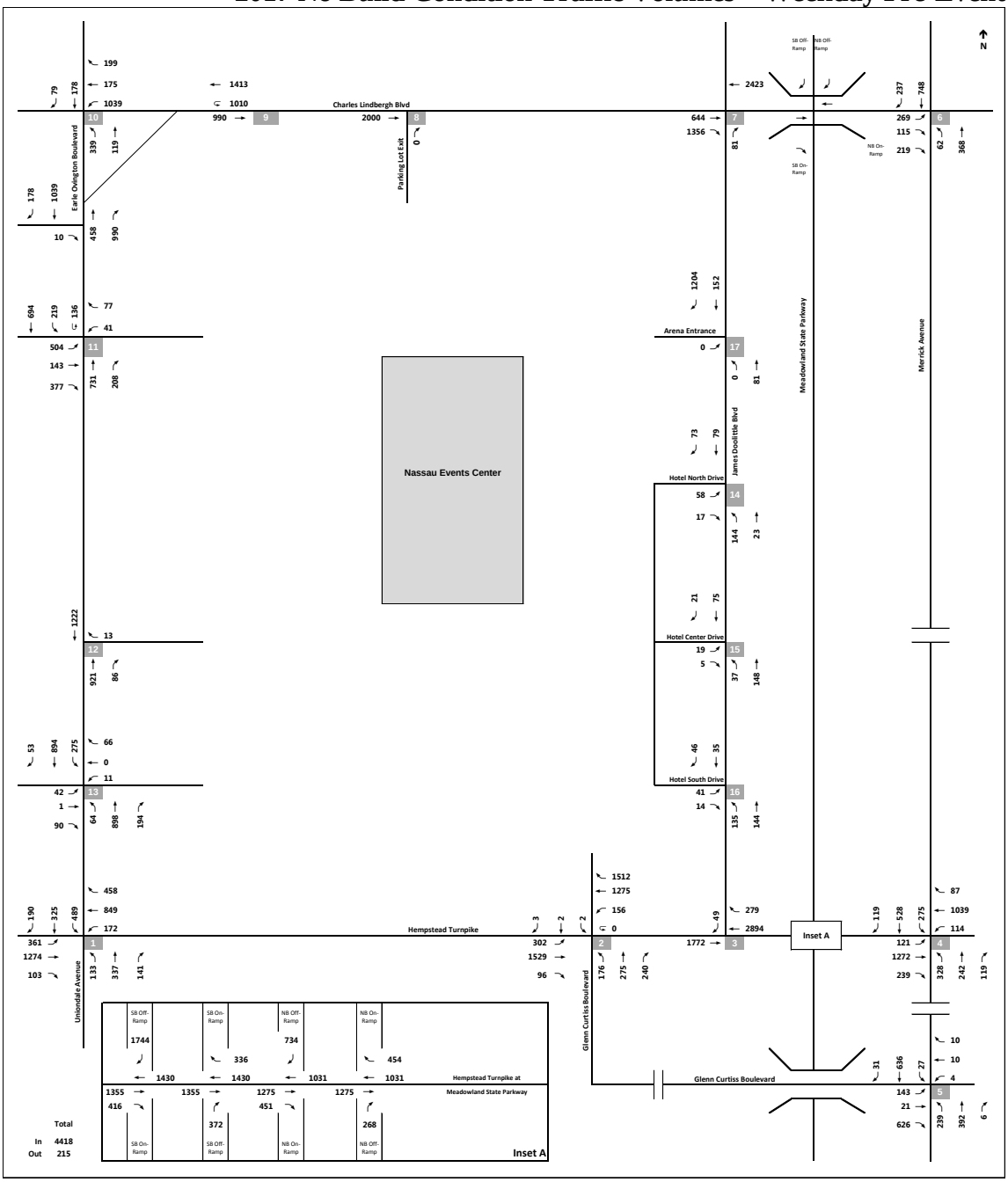


Figure F-7
2017 No Build Condition Traffic Volumes – Saturday Midday

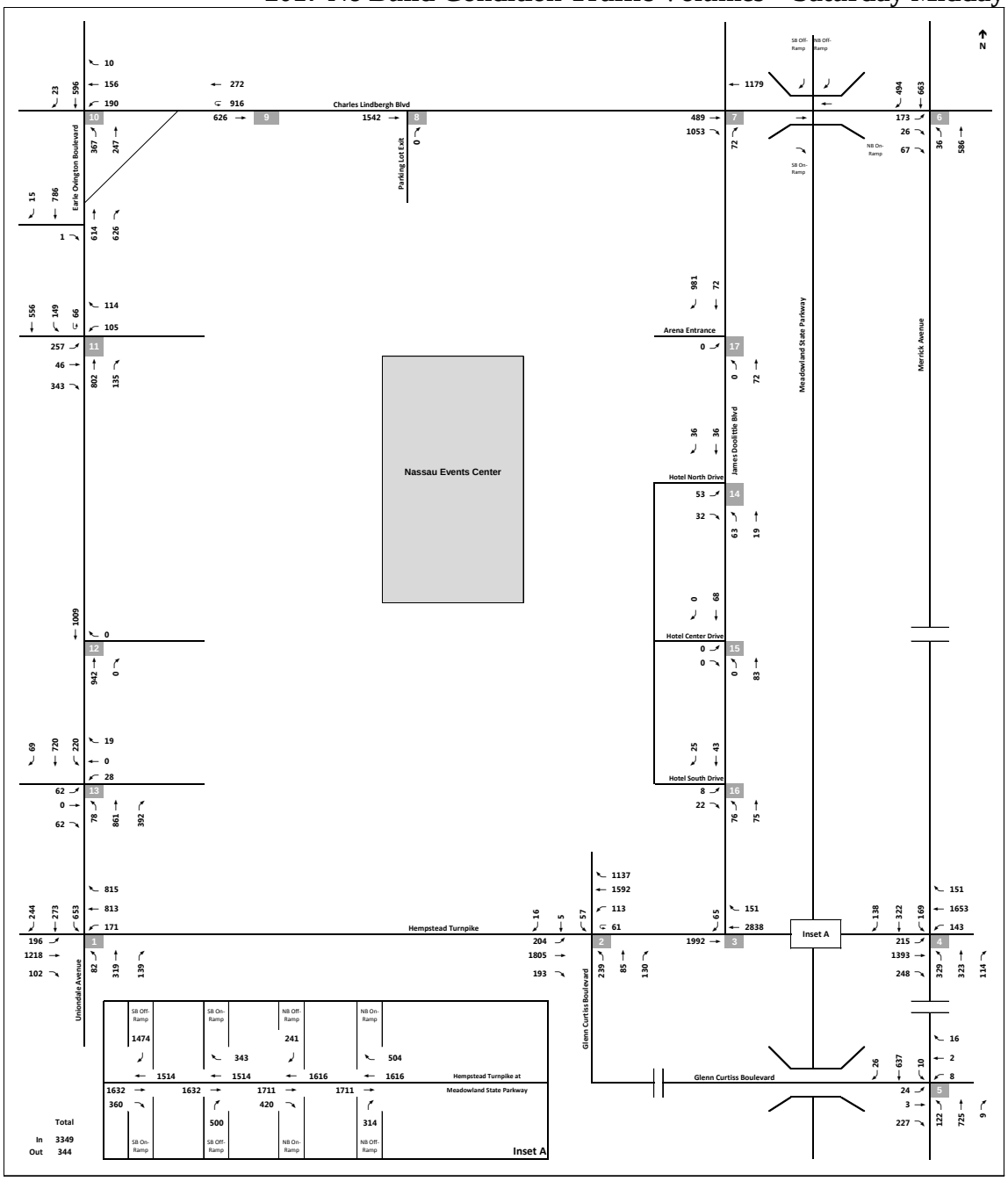


Table F-8
No Build Conditions LOS

#	Intersection & Approach	Lane	Storage Length / Link Distance (ft)	Weekday Afternoon Peak Hour			Weekday Pre-Event Peak Hour			Saturday Midday Peak Hour		
				LOS	Delay (sec)	95th Percentile Queue Length (ft)	LOS	Delay (sec)	95th Percentile Queue Length (ft)	LOS	Delay (sec)	95th Percentile Queue Length (ft)
1	**Hempstead Turnpike & Earle Ovington Boulevard / Uniondale Avenue**											
	Eastbound	L	240	F	238.4	449	F	303.2	422	F	233.8	391
		T	1415	F	203.9	1251	F	153.8	1292	E	66.9	473
		R	200	D	48.0	144	C	30.6	210	C	31.2	155
		Approach		F	183.7		F	113.1		E	70.1	
	Westbound	L	150	F	93.2	334	F	81.6	134	E	77.5	137
		T	1856	F	128.6	868	D	47.3	200	F	87.8	237
		R	210	A	4.1	377	A	2.7	0	A	4.3	55
		Approach		F	81.1		C	33.8		D	36.9	
	Northbound	L	75	F	95.6	188	F	85.2	182	E	59.2	180
		LT	142	F	160.3	236	F	145.9	251	F	116.3	262
		TR	142	F	150.9	239	F	156.2	229	F	143.6	229
		Approach		F	146.3		F	140.7		F	124.3	
	Southbound	L	200	D	53.6	353	D	43.3	284	C	34.2	321
		LT	846	F	111.7	779	E	58.1	327	D	48.9	381
		TR	846	F	113.3	764	E	58.5	309	D	50.6	348
		R	846	F	98.9	695	E	56.5	272	D	39.2	294
		Approach		F	94.8		D	54.1		D	44.3	
		Int.		**F**	**119.1**		**E**	**79.9**		**E**	**57.5**	
2	**Hempstead Turnpike & Glenn Curtiss Boulevard**											
	Eastbound	L	250	E	77.6	138	F	85.9	216	F	96.9	187
		T	1856	D	45.6	406	B	16.3	181	C	27.8	322
		R	235	A	3.1	338	A	2.5	0	A	2.6	112
		Approach		C	34.0		C	23.0		C	29.8	
	Westbound	UL	540	E	78.6	244	D	53.8	113	F	90.8	156
		L	540	F	93.6	368	F	81.6	138	E	76.7	135
		T	1325	C	35.0	628	B	18.5	242	C	23.8	541
		TR	1325	D	46.5	742	D	39.6	773	E	62.1	870
		R	150	A	2.1	360	A	1.7	102	A	2.1	364
		Approach		D	42.4		C	22.2		C	32.8	
	Northbound	L	1600	F	305.2	597	F	110.1	542	E	64.4	184
		LT	1600	F	319.1	588	F	298.6	553	F	80.0	253
		TR	1600	F	358.5	534	F	317.8	561	E	64.6	207
		R	1600	F	356.2	608	F	276.1	551	D	40.0	125
		Approach		F	333.9		F	266.3		E	68.7	
	Southbound	L	153	E	79.2	173	F	98.3	16	E	64.2	93
		LT	153	E	58.7	156	E	67.6	15	D	41.0	49
		TR	153	D	42.7	92	E	77.2	21	D	51.4	31
		R	153	E	76.5	21	F	115.0	11	E	66.7	31
		Approach		E	67.0		F	84.8		E	59.9	
		Int.		**E**	**72.0**		**E**	**55.8**		**D**	**35.1**	
3	**Hempstead Turnpike & James Doolittle Boulevard (Unsignalized)**											
	Southbound	R	408	D	51.0	135	F	3252.9	485	F	2788.5	448
4	**Hempstead Turnpike & Merrick Avenue**											
	Eastbound	L	165	F	100.6	261	F	86.4	257	F	221.5	217
		T	625	F	122.1	726	D	47.3	509	F	522.3	875
		R	165	A	6.2	298	A	6.7	166	A	2.2	141
		Approach		F	99.2		D	37.1		F	97.8	
	Westbound	L	480	F	82.3	302	E	71.9	189	F	276.0	586
		T	1070	E	56.8	466	D	40.8	346	E	55.4	864
		TR	140	C	24.3	263	C	23.0	145	B	18.3	235
		Approach		D	47.8		D	37.8		E	57.0	
	Northbound	L	325	F	223.1	440	E	79.6	243	E	65.5	214
		T	807	F	127.8	923	D	51.0	210	D	49.5	226
		TR	807	E	60.1	467	E	58.2	248	E	57.0	262
		Approach		F	143.2		E	62.8		E	56.7	
	Southbound	L	898	F	100.4	373	F	86.0	202	D	47.7	135
		T	1715	E	69.7	505	E	59.0	345	D	54.7	198
		R	150	C	27.6	270	D	35.4	242	D	35.3	176
		Approach		E	67.3		E	59.0		D	45.7	
		Int.		**F**	**84.9**		**D**	**45.9**		**E**	**66.4**	

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service
For unsignalized intersections, results are only reported for the controlled movements.

Table F-8 (Cont'd)
No Build Conditions LOS

#	Intersection & Approach	Lane	Storage Length / Link Distance (ft)	Weekday Afternoon Peak Hour LOS	Weekday Afternoon Peak Hour Delay (sec)	Weekday Afternoon Peak Hour 95th Percentile Queue Length (ft)	Weekday Pre-Event Peak Hour LOS	Weekday Pre-Event Peak Hour Delay (sec)	Weekday Pre-Event Peak Hour 95th Percentile Queue Length (ft)	Saturday Midday Peak Hour LOS	Saturday Midday Peak Hour Delay (sec)	Saturday Midday Peak Hour 95th Percentile Queue Length (ft)
5	**Glenn Curtiss Boulevard & Merrick Avenue**											
	Eastbound	LT	729	C	25.8	162	C	24.9	128	C	22.3	44
		R	729	A	9.2	208	A	6.0	153	A	2.9	72
		Approach		B	11.3		A	9.0		A	4.6	
	Westbound	LTR	211	B	13.9	49	B	15.7	43	B	11.7	44
		Approach		B	13.9		B	15.0		B	12.2	
	Northbound	L	450	B	18.3	120	B	13.6	96	A	7.5	67
		T	1015	B	14.6	146	B	12.6	106	A	9.3	122
		TR	1015	B	11.0	134	A	8.0	92	A	4.9	103
		Approach		B	14.8		B	11.6		A	7.4	
	Southbound	L	100	C	27.7	117	B	20.0	90	B	13.0	17
		T	1285	D	35.8	404	C	20.5	264	B	10.4	134
		TR	1285	D	36.1	418	B	19.3	282	A	8.2	150
		Approach		D	35.7		B	19.8		A	9.0	
		Int.		**C**	**21.3**		**B**	**13.9**		**A**	**7.6**	
6	**Charles Lindbergh Boulevard & Merrick Avenue**											
	Eastbound	L	1300	B	16.0	72	B	17.4	64	C	21.8	62
		Approach		B	14.0		B	17.4		C	21.0	
	Northbound	L	225	C	30.7	105	B	19.1	88	B	12.0	50
		T	775	B	10.7	160	A	7.9	112	A	6.4	124
		Approach		B	12.8		A	9.4		A	6.6	
	Southbound	T	2560	B	18.5	290	A	9.7	163	A	9.5	120
		R	180	A	2.4	135	A	1.7	47	A	2.6	87
		Approach		B	13.6		A	7.3		A	5.4	
		Int.		**B**	**13.5**		**A**	**9.4**		**A**	**7.2**	
7	**Eastbound Charles Lindbergh Boulevard & James Doolittle Boulevard (Unsignalized)**											
	Northbound	R	709	A	0.2	0	A	0.2	0	A	0.2	0
8	**Eastbound Charles Lindbergh Boulevard & Site Northern Access Drive (Unsignalized)**											
	Northbound	R		Access gate closed during this peak hour			Access gate closed during this peak hour			Access gate closed during this peak hour		
9	**Charles Lindbergh Boulevard & Westbound U-Turn (Uncontrolled)**											
	Eastbound	T		Intersection is uncontrolled			Intersection is uncontrolled			Intersection is uncontrolled		
10	**Westbound Charles Lindbergh Boulevard & Earle Ovington Boulevard**											
	Westbound	L	140	C	20.2	250	B	15.5	248	B	18.3	95
		LT	1300	C	30.8	297	C	22.7	287	C	22.8	125
		TR	1300	C	32.0	299	C	31.3	306	B	19.0	105
		R	1300	A	9.3	239	A	7.8	237	B	11.1	23
		Approach		C	25.8		C	20.6		C	20.6	
	Northbound	L	540	D	47.4	241	D	35.1	153	C	31.6	156
		T	540	B	15.2	192	B	13.6	57	A	8.2	74
		Approach		C	24.3		C	25.6		B	19.6	
	Southbound	T	665	C	30.8	199	C	28.6	127	C	23.1	220
		TR	665	B	10.5	189	B	10.5	92	B	15.3	180
		Approach		B	20.0		B	19.9		C	20.5	
		Int.		**C**	**24.1**		**C**	**21.5**		**C**	**20.2**	

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service
For unsignalized intersections, results are only reported for the controlled movements.

Table F-8 (Cont'd)
No Build Conditions LOS

#	Intersection & Approach	Lane	Storage Length / Link Distance (ft)	Weekday Afternoon Peak Hour LOS	Weekday Afternoon Peak Hour Delay (sec)	Weekday Afternoon Peak Hour 95th Percentile Queue Length (ft)	Weekday Pre-Event Peak Hour LOS	Weekday Pre-Event Peak Hour Delay (sec)	Weekday Pre-Event Peak Hour 95th Percentile Queue Length (ft)	Saturday Midday Peak Hour LOS	Saturday Midday Peak Hour Delay (sec)	Saturday Midday Peak Hour 95th Percentile Queue Length (ft)
	Eastbound Charles Lindbergh Boulevard / Coliseum VIP & Earle Ovington Boulevard											
	Eastbound	L	1085	D	51.7	518	C	31.8	243	C	21.9	122
		T	1085	D	53.9	62	C	33.8	141	C	31.9	72
		R	1085	A	0.3	0	A	1.0	0	A	0.8	0
		Approach		D	38.4		C	20.6		B	11.5	
	Westbound	L	284	F	88.8	19	D	41.9	59	C	29.6	98
		R	284	A	2.3	26	A	2.0	0	A	2.0	0
11		Approach		A	4.3		B	14.4		B	14.9	
	Northbound	T	534	E	70.0	389	D	39.0	248	C	24.8	218
		R	534	B	10.5	80	A	8.6	95	A	4.0	60
		Approach		E	60.5		C	32.0		C	21.4	
	Southbound	UL	175	D	48.2	252	B	18.9	204	B	13.4	116
		T	940	E	71.4	571	B	14.7	209	A	8.7	111
		Approach		D	54.1		B	15.2		A	9.6	
		Int.		**D**	**49.0**		**C**	**21.7**		**B**	**14.6**	
	Media / Staff Parking & Earle Ovington Boulevard (Unsignalized)											
12	Westbound	R	201	No volume observed during this peak hour			A	3.8	34	No volume observed during this peak hour		
	Hofstra University / Coliseum Prepaid & Earle Ovington Boulevard											
	Eastbound	LT	343	C	22.6	52	C	21.3	41	B	19.6	49
		R	343	A	6.5	53	A	5.7	56	A	4.8	48
		Approach		B	16.3		B	10.1		B	11.7	
	Westbound	L	432	C	31.9	14	C	27.2	16	C	25.0	33
		T	432	D	39.2	12	A	0.0	0	A	0.0	0
		R	432	A	5.1	25	A	4.0	48	A	4.4	30
		Approach		C	21.3		A	7.3		B	17.3	
13	Northbound	L	150	D	51.3	109	B	20.0	35	B	14.2	30
		T	846	B	14.4	169	B	15.9	38	C	27.5	40
		R	500	A	1.3	0	A	1.6	3	A	2.5	22
		Approach		B	14.9		B	11.0		B	12.8	
	Southbound	L	150	C	20.2	10	D	47.8	238	F	101.2	292
		T	870	A	6.1	97	A	9.0	230	C	27.6	353
		TR	520	A	5.6	83	A	3.9	35	A	3.6	25
		Approach		A	5.6		B	15.0		C	29.1	
		Int.		**B**	**10.1**		**B**	**12.9**		**B**	**19.7**	
14	**James Doolittle Boulevard & Hotel North Drive (Unsignalized)**											
	Eastbound	LR	124	A	3.5	44	F	111.9	123	F	125.3	131
15	**James Doolittle Boulevard & Hotel Center Drive (Unsignalized)**											
	Eastbound	LR	183	A	3.3	34	F	308.7	148	A	0.0	0
16	**James Doolittle Boulevard & Hotel South Drive (Unsignalized)**											
	Eastbound	LR	270	A	3.7	45	F	937.5	356	F	2288.2	349

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service
For unsignalized intersections, results are only reported for the controlled movements.

D. DESCRIPTION OF THE PROPOSED PROJECT

The proposed project would consist of renovations to the Coliseum including a reduction in capacity from 17,700 seats to approximately 13,000 (with a typical large event attendance of 10,000 persons) and renovation of the Coliseum's interior and façade. Additionally, portions of the surrounding plaza areas and parking lot would be developed with entertainment based retail consisting of the following land uses:

- 170,000 sf of retail;
- 38,000 sf of restaurant;
- 60,000 sf (1,500 seats) cinema; and
- 120,000 sf of recreation uses.

SITE ACCESS

Vehicular access would be provided along the north, west, and south sides of the project site. The existing access point on the south side of the site along Hempstead Turnpike opposite Glenn Curtiss Boulevard would be maintained, and a second entrance/exit point would be added along Hempstead Turnpike at Gilroy Avenue, which would be signalized to permit eastbound left-turns into the site and right-turns into and out of the site to/from westbound Hempstead Turnpike. The three existing access points on the west side of the site along Earle Ovington Boulevard would be maintained, including the signalized access points at Hofstra University and at Eastbound Charles Lindbergh Boulevard, along with the right-in/right-out Media/Staff entrance. The ancillary exit gate on the north side of the site, along Eastbound Charles Lindbergh Boulevard just east of the u-turn, would be removed. The existing site entrance on Charles Lindbergh Boulevard at James Doolittle Boulevard would be signalized to allow direct access from Charles Lindbergh Boulevard westbound via a dual left-turn bay and from Charles Lindbergh Boulevard eastbound via the existing right turn; vehicles would also be permitted to exit the site at this location via a new channelized right-turn lane onto Charles Lindbergh Boulevard eastbound. The access points to the Long Island Marriott hotel and the overflow parking lot on the east side of the site, along James Doolittle Boulevard, would be maintained. **Figure F-8** shows the site plan for the proposed project.

PROJECT IMPROVEMENTS

The following roadway improvements would be implemented as part of the proposed project:

- A new access point to the site along Hempstead Turnpike, at Gilroy Avenue between Earle Ovington Boulevard and Glenn Curtiss Boulevard would be created. The new intersection at this location would be signalized to introduce a left turn from eastbound Hempstead Turnpike into the site, along with an entrance/exit from westbound Hempstead Turnpike (via right turns only).
- The signalization of Charles Lindbergh Boulevard and James Doolittle Boulevard would be changed to allow left-turns from westbound Charles Lindbergh Boulevard into the site.
- Parking booths at the existing access points would be eliminated, which would reduce queuing onto the external roadways during pre-event periods. The proposed parking lot layout provides space to install parking booths at interior access points to some of the lot

sections which would be utilized as retail-dedicated parking for greater flexibility of controlling/reserving spaces at these lots.

- The proposed internal roadway configuration of the project site would create an additional north/south connection between Charles Lindbergh Boulevard and Hempstead Turnpike. This would provide an alternate route to divert some vehicle traffic from Earle Ovington Boulevard.

In addition, the following roadway improvements are proposed as part of the project:

Intersection 1: Hempstead Turnpike & Earle Ovington Boulevard /Uniondale Avenue

- Add one southbound left-turn lane in the existing median and restripe the southbound Earle Ovington Boulevard approach from L, LT, TR, R to L, LT, T, R, R
- Restripe the northbound Uniondale Avenue approach from L, LT, TR to L, T, TR
- Restripe the eastbound right-turn bay to extend an additional 100' (300' total)
- Provide a southbound right-turn overlap phase during the eastbound exclusive left-turn phase
- Modify signal timing for all three peak hours

Intersection 2: Hempstead Turnpike & Glenn Curtis Boulevard

- Remove payment booth at Nassau Coliseum entrance and reconfigure the southbound approach to L, L, T, TR
- Restripe the eastbound right-turn bay to extend an additional 115' (350' total)
- Modify signal timing for all three peak hours

Intersection 3: Hempstead Turnpike & James Doolittle Boulevard

- Create auxiliary lane along Hempstead Turnpike westbound in shoulder lane between Glenn Curtiss Boulevard and James Doolittle Boulevard

Intersection 4: Hempstead Turnpike & Merrick Avenue

- Modify signal timing for all three peak hours

Intersection 5: Glenn Curtiss Boulevard and Merrick Avenue

- Modify signal timing for Weekday Afternoon peak hour only

Intersection 6: Charles Lindbergh Boulevard & Merrick Avenue

- Modify signal timing for Weekday Afternoon peak hour only

Intersection 7: Eastbound Charles Lindbergh Boulevard at James Doolittle Boulevard

- Install semi-actuated uncoordinated traffic signal with two signal phases
- Create two westbound left-turn lanes in the existing median
- Restripe the eastbound approach from T, T, T, TR, R to T, T, T, T, R

Intersection 8: Eastbound Charles Lindbergh Boulevard at Site Northern Access Drive

- Eliminate this access driveway

Intersection 10: Westbound Charles Lindbergh Boulevard & Earle Ovington Boulevard

- Modify signal timing for Weekday Afternoon peak hour only

Intersection 11: Eastbound Charles Lindbergh Boulevard / Coliseum VIP at Earle Ovington Boulevard

- Remove payment booth at Nassau Coliseum entrance and reconfigure the westbound approach to L, L, R
- Modify signal timing for Weekday Afternoon peak hour only
- Extend the southbound left-turn bay an additional 125' (300' total) into existing median
- Extend the southbound left-turn vehicle detection to at least 50' upstream of stop bar

Intersection 13: Hofstra University / Coliseum Prepaid & Earle Ovington Boulevard

- Remove payment booth at Nassau Coliseum entrance and reconfigure the westbound approach to L, TR
- Modify intersection control from semi-actuated uncoordinated to actuated coordinated traffic signal with fixed cycle length
- Modify signal timing and intersection offsets for all three peak hours
- Create new northbound/southbound exclusive left-turn phase
- Extend the southbound left-turn bay an additional 300' (450' total) into existing median

Intersection 17: Hempstead Turnpike & Site Access Drive at Gilroy Avenue

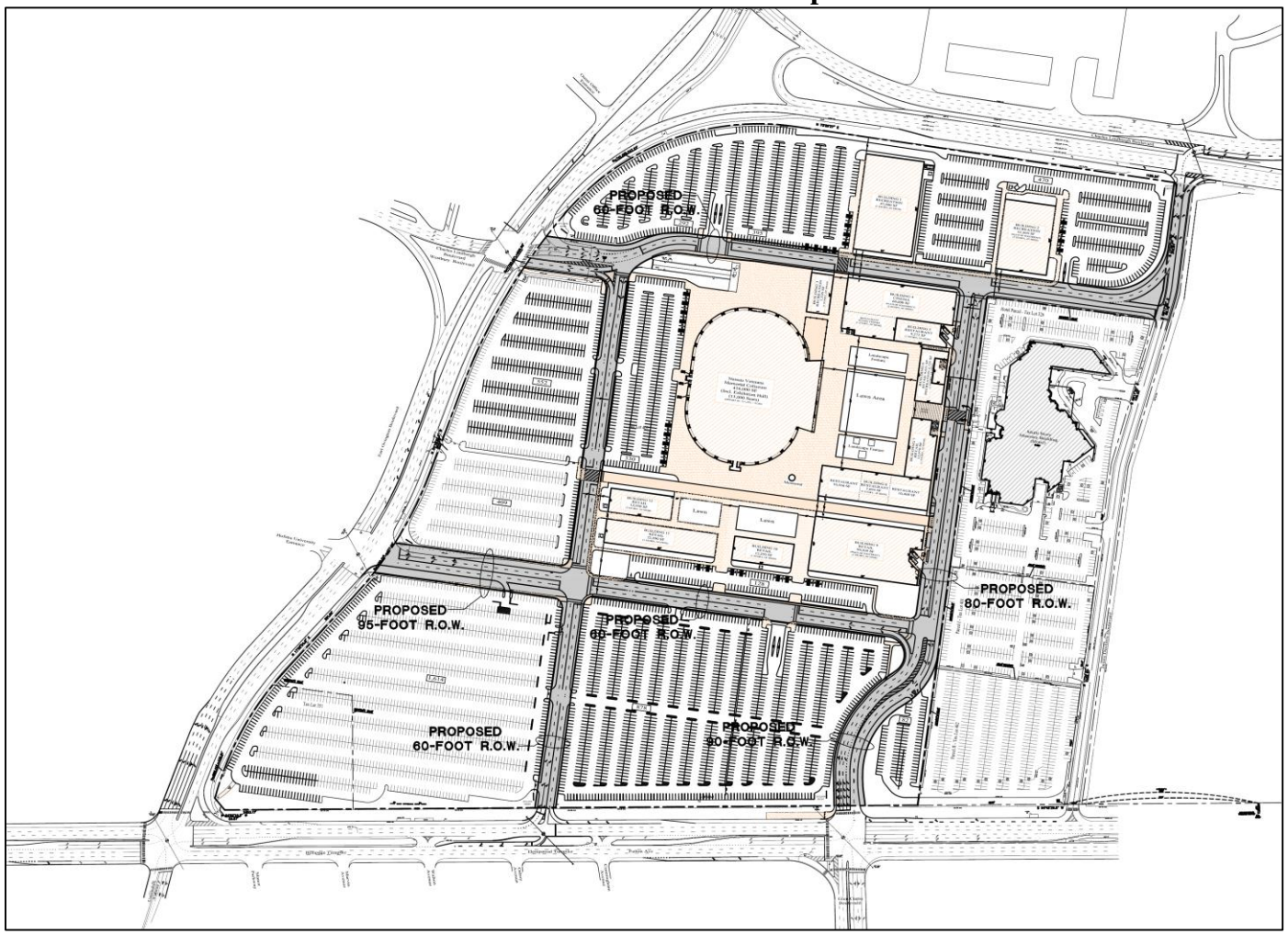
- Create new Site Access Drive on Hempstead Turnpike at Gilroy Avenue
- Restripe the Hempstead Turnpike eastbound approach to add a 225' left-turn bay in the existing median into new Site Access Drive
- Restripe the Hempstead Turnpike westbound approach to add a 300' right-turn bay in the shoulder lane into new Site Access Drive
- Allow southbound right turns onto westbound Hempstead Turnpike
- Install two-phase actuated coordinated signal with fixed cycle length

James Doolittle Boulevard at internal East-West Roadway north of Nassau Coliseum

- Remove payment booth and connect internal east-west roadway to James Doolittle Boulevard as T-intersection with stop control for James Doolittle Boulevard approaches
- Change internal east-west roadway from one way westbound to two-way

A comparison of the analysis results for the No-Build and Build with Improvements Conditions is presented in **Tables F-18 through F-20** for each of the study periods.

Figure F-8
Proposed Nassau Events Center Site Plan



TRIP GENERATION

The trip generation and assignment estimates were prepared for three peak hours: Weekday Afternoon, Weekday Pre-Event, and Saturday Midday.

COLISEUM

The renovated Coliseum would have fewer seats than the existing facility. Currently, the Coliseum has a capacity of approximately 17,700 and renovations to the Coliseum would reduce the capacity to 13,000, with a typical large event attendance of 10,000 patrons. As a result, the number of trips generated by the Coliseum is expected to decrease proportionally. The changes in traffic volumes due to the reduction in Coliseum size were estimated by calculating the ratios between the existing capacity and proposed capacity. This would result in a 26.55% percent reduction of Coliseum-generated traffic during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours. These calculations are shown in **Table F-9**.

Table F-9
Adjustment Factors for Coliseum Reduction

	Existing Capacity	Proposed Capacity	Coliseum Traffic Reduction
Weekday Afternoon	17,700	13,000	-26.55%
Weekday Pre-Event	17,700	13,000	-26.55%
Saturday Midday	17,700	13,000	-26.55%

RETAIL

The Proposed NEC Project would include up to 170,000 sf of retail space. The type of retail expected to occupy this space would have both a regional and local draw and, therefore, the peak hour vehicle trip rates and directional distributions were based on the Shopping Center (Land Use 820) from ITE's *Trip Generation Manual, 9th Edition.*

RESTAURANT

Approximately 38,000 sf of restaurant space would be included as part of the Proposed NEC Project. This is expected to consist of sit-down, full-service restaurants serving lunch and dinner, and, therefore, the peak hour vehicle trip rates and directional distributions were based on the High-Turnover (Sit-Down) Restaurant (Land Use 932) from ITE's *Trip Generation Manual, 9th Edition.*

CINEMA

A 1,500-seat movie theater is proposed as part of the Proposed NEC Project. Peak hour vehicle trip rates and directional distributions were based on the Multiplex Movie Theater (Land Use 445) from ITE's *Trip Generation Manual, 9th Edition.*

RECREATION

120,000 sf of recreation space is proposed as part of the Proposed NEC Project. Peak hour vehicle trip rate and directional distributions were based on the Health/Fitness Club (Land Use 492) from ITE's *Trip Generation Manual, 9th Edition.*

INTERNAL CAPTURE TRIPS

Internal capture trips are trips that occur within a multi-use development and are generated wholly within that development (i.e., both origin and destination are within one development). It was assumed that a portion of trips to the proposed uses at the project site would be generated by the adjacent Long Island Marriott (a 607-room hotel) and would occur on foot. Therefore, a 5 percent internal trip capture rate was assumed for the entire development to account for trips between the hotel and the uses on the project site.

In addition, linked trips are trips that have multiple destinations and are typical for multi-use sites. Considering the various types of land uses as part of the proposed project, it was assumed that there would be trips to the restaurant and retail land uses that are linked to the entertainment uses proposed for the site. To be conservative, a linked trip credit of only 25 percent was applied to the restaurant and retail uses.

In total, a 30 percent internal capture rate was applied to the restaurant and retail land uses proposed for the site and 5 percent was applied to the arena and cinema land uses.

ALTERNATIVE MODE REDICTION

It was assumed that a portion of trips to the project site would occur via alternative modes (transit and ridesharing) for all land uses; therefore, an alternative mode trip credit of 5 percent was applied to all uses, consistent with methodology in the MFM District Alternative traffic study.

TRIP GENERATION RESULTS

Table F-10 lists the transportation planning assumptions used to project the number of trips generated by the new uses in the proposed project, not including the Coliseum, and detailed trip generation estimates are shown in **Table F-11**. The total vehicle trips estimated for the Proposed NEC Project, including the reduced Coliseum, in all three peak hours are summarized in **Table F-12**. The Proposed NEC Project is anticipated to generate an additional 1,027, 639, and 900 vehicle trips to the project site during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively.

Table F-10
Trip Generation Assumptions for Build Condition

Land Use		Retail (ITE 820)		Restaurant (ITE 932)		Cinema (ITE 445)		Recreation (ITE 492)	
Program Size	Size	170,000		38,000		1,500		120,000	
	Unit	gsf		gsf		seats		gsf	
Peak Hour Average Vehicle Trip Rate		(1)		(2)		(3)		(4)	
	Weekday Afternoon	Ln(T)=0.67Ln(X)+3.31		9.85		0.08		3.53	
	Weekday Pre-Event	Ln(T)=0.67Ln(X)+3.31		18.49		0.29		4.06	
	Saturday Midday	Ln(T)=0.65Ln(X)+3.78		14.07		0.30		2.78	
	Unit	per 1,000 gsf		per 1,000 gsf		per seat		per 1,000 gsf	
Internal Capture Trip Rate (5)		30%		30%		5%		5%	
Alternative Mode Reduction (6)		5%		5%		5%		5%	
Directional Distribution		(1)		(2)		(3)		(4)	
		In	**Out**	**In**	**Out**	**In**	**Out**	**In**	**Out**
	Weekday Afternoon	48%	52%	60%	40%	36%	64%	57%	43%
	Weekday Pre-Event	48%	52%	54%	46%	59%	41%	51%	49%
	Saturday Midday	52%	48%	53%	47%	52%	48%	45%	55%

Notes & Sources:

(1) Institute of Transportation Engineers. *Trip Generation Manual, 9th Edition* : Shopping Center (820).

(2) Institute of Transportation Engineers. *Trip Generation Manual, 9th Edition* : High-Turnover (Sit-Down) Restaurant (932).

(3) Institute of Transportation Engineers. *Trip Generation Manual, 9th Edition* : Multiplex Movie Theater (445).

(4) Institute of Transportation Engineers. *Trip Generation Manual, 9th Edition* : Health/Fitness Club (492).

(5) Assumed 25% internal capture trips (linked trips) for retail and restaurant land uses and a 5% internal capture trips to/from Long Island Marriott adjacent to the site for all land uses.

(6) 5% alternative mode trips (transit and ride sharing trips) derived from The Lighthouse at Long Island FGEIS (October 2010) Appendix E-1.

Table F-11
Trip Generation for Build Condition

Land Use		Retail (ITE 820)		Restaurant (ITE 932)		Cinema (ITE 445)		Recreation (ITE 492)		Total		
Program Size	Size	170,000		38,000		1,500		120,000		328,000 gsf + 1,500 Cinema Seats		
	Unit	gsf		gsf		seats		gsf				
Total Peak Hour Trips	Weekday Afternoon	855		374		120		424		1,773		
	Weekday Pre-Event	855		703		435		487		2,480		
	Saturday Midday	1,234		535		450		334		2,553		
		In	Out	In	Out	In	Out	In	Out	In	Out	Total
Total Peak Hour Trips By Direction	Weekday Afternoon	410	445	225	150	43	77	241	182	919	854	1,773
	Weekday Pre-Event	410	445	379	323	257	178	248	239	1,294	1,185	2,479
	Saturday Midday	642	592	283	251	234	216	150	183	1,309	1,242	2,551
		30%	30%	30%	30%	5%	5%	5%	5%	Variable	Variable	Variable
Internal Capture Trips	Weekday Afternoon	-123	-133	-67	-45	-2	-4	-12	-9	-204	-191	-395
	Weekday Pre-Event	-123	-133	-114	-97	-13	-9	-12	-12	-262	-251	-513
	Saturday Midday	-193	-178	-85	-75	-12	-11	-8	-9	-298	-273	-571
External Trips	Weekday Afternoon	287	311	157	105	41	73	229	173	715	663	1,378
	Weekday Pre-Event	287	311	266	226	244	169	236	227	1,032	934	1,966
	Saturday Midday	449	415	198	176	222	205	143	174	1,011	969	1,980
		5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
Alternative Mode Trips	Weekday Afternoon	-14	-16	-8	-5	-2	-4	-11	-9	-35	-34	-69
	Weekday Pre-Event	-14	-16	-13	-11	-12	-8	-12	-11	-51	-46	-97
	Saturday Midday	-22	-21	-10	-9	-11	-10	-7	-9	-50	-49	-99
Primary Trips	Weekday Afternoon	273	296	149	100	39	69	218	164	680	629	1,309
	Weekday Pre-Event	273	296	252	215	232	161	224	215	981	888	1,869
	Saturday Midday	427	394	188	167	211	195	135	166	961	920	1,881

Table F-12
Nassau Events Center Total Peak Hour Vehicle Trips

Arena Vehicle Trip Generation				
	Peak Hour	Vehicle Trips		
		In	Out	Total
Current Arena Trips (17,700 Seats)[1]	Weekday Afternoon	705	357	1,062
	Weekday Pre-Event	4,418	215	4,633
	Saturday Midday	3,349	344	3,693
26.55% Reduction (-4,700 Seats)	Weekday Afternoon	-187	-95	-282
	Weekday Pre-Event	-1,173	-57	-1,230
	Saturday Midday	-889	-91	-981
Projected Arena Trips (13,000 Seats)	Weekday Afternoon	518	262	780
	Weekday Pre-Event	3,245	158	3,403
	Saturday Midday	2,460	253	2,712
Total NEC Vehicle Trip Generation				
	Peak Hour	Vehicle Trips		
		In	Out	Total
Total NEC Vehicle Trip Ends (New Development + Arena)	Weekday Afternoon	1,198	891	2,089
	Weekday Pre-Event	4,226	1,046	5,272
	Saturday Midday	3,421	1,173	4,593
NEC Vehicle Trip Increment	Weekday Afternoon	493	534	1,027
	Weekday Pre-Event	-192	831	639
	Saturday Midday	72	829	900

1. Current arena traffic volumes based on The Lighthouse at Long Island FGEIS (October 2010) Appendix E-1, 2010 existing traffic volumes.

TRIP DISTRIBUTION AND ASSIGNMENT

The route assignments for trips generated by the reduced arena would generally follow the same routes as the existing Coliseum trips with some modifications to account for the new driveways on Hempstead Turnpike and Eastbound Charles Lindbergh Boulevard.

The route assignments for trips generated by non-arena land uses match the regional distributions used in the Lighthouse at Long Island FGEIS (based on the regional travel demand model) with minor modifications.

The trip assignment percentages for each study period were applied to the project-generated trips to calculate the project generated traffic volume network. **Figures F-9 through F-11** show the project generated traffic volume networks for the three peak hours. Detailed inbound and outbound trip assignments and total trips for each of the individual land uses are shown in the Appendix.

Figure F-9
Project Generated Traffic Volumes – Weekday Afternoon

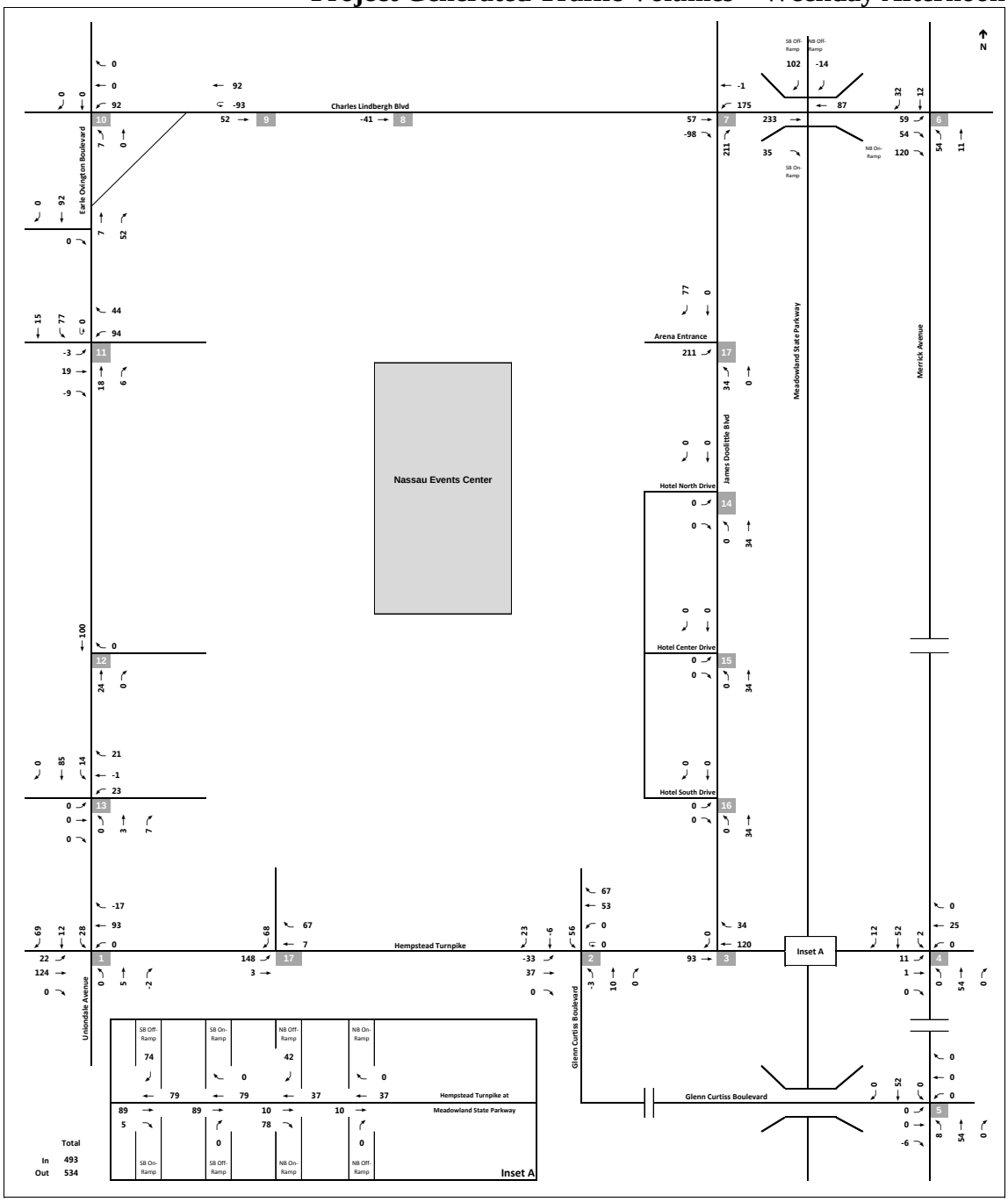


Figure F-10
Project Generated Traffic Volumes – Weekday Pre-Event

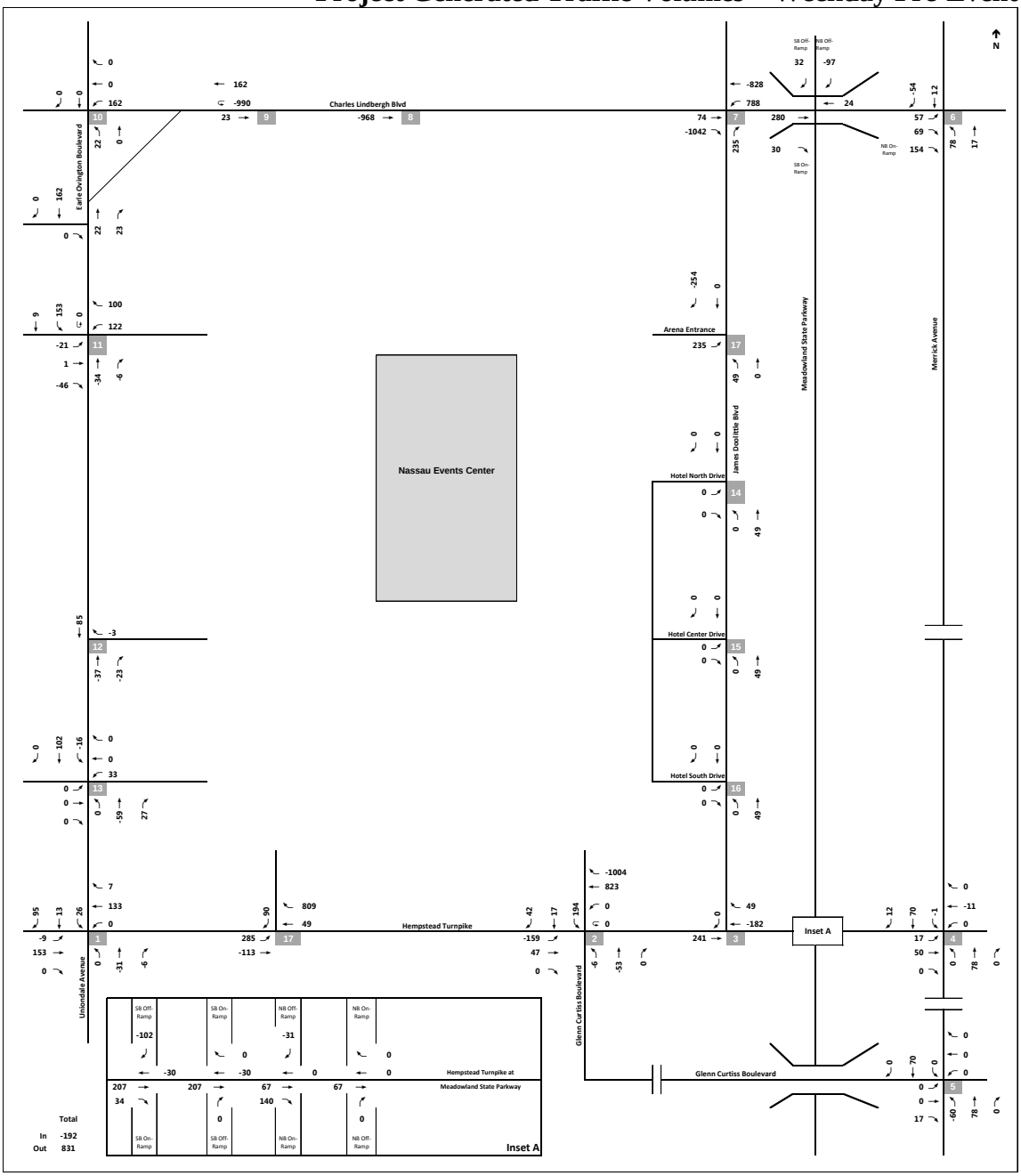
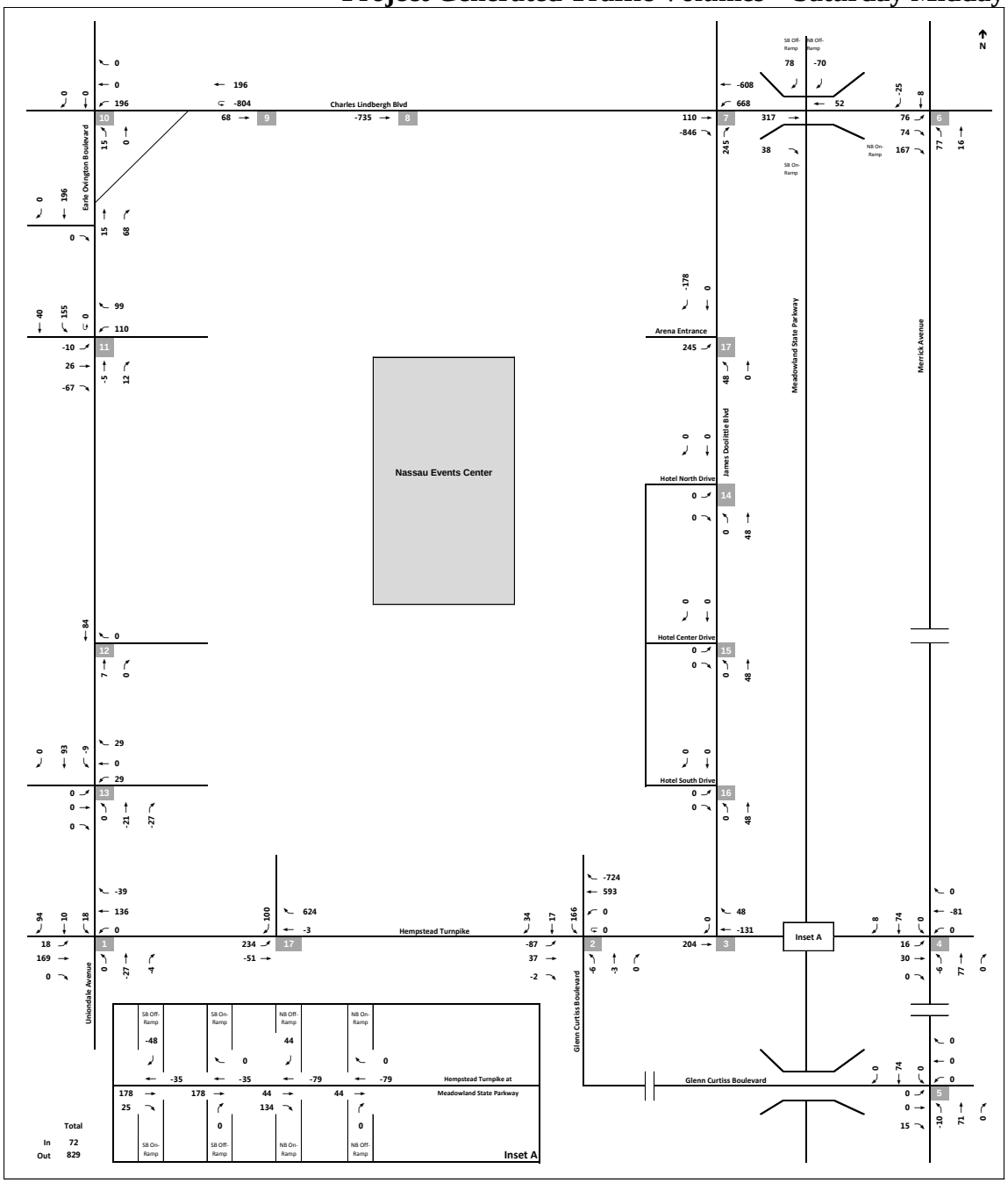


Figure F-11
Project Generated Traffic Volumes – Saturday Midday



E. THE FUTURE WITH THE PROPOSED PROJECT

The No Build condition analysis forms the future baseline to which projected increments associated with the proposed project and project improvements are added to establish the Build with Improvements condition.

TRAFFIC CONDITIONS

Figures F-12 through F-14 show the 2017 Build with Improvements condition traffic volumes for the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively. **Tables F-13 through F-15** presents a comparison of No Build and Build with Improvements conditions for the study intersections.

Intersection 1: Hempstead Turnpike & Earle Ovington Boulevard / Uniondale Avenue

The signalized intersection of Hempstead Turnpike and Earle Ovington Boulevard would operate at an overall LOS F, E, and D during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively. Certain lane groups during Weekday Pre-Event and Saturday Midday peak hours would operate at LOS F for the eastbound and northbound approaches.

Intersection 2: Hempstead Turnpike & Glenn Curtiss Boulevard

The signalized intersection of Hempstead Turnpike and Glenn Curtiss Boulevard would operate at an overall LOS E, E, and D during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively. Certain lane groups during each of the peak hours would operate at LOS F for the eastbound, westbound, and northbound approaches.

Intersection 3: Hempstead Turnpike & James Doolittle Boulevard

At the unsignalized intersection of Hempstead Turnpike and James Doolittle Boulevard, the stop-controlled James Doolittle Boulevard SB approach would operate at LOS A during all three peak hours.

Intersection 4: Hempstead Turnpike & Merrick Avenue

The signalized intersection of Hempstead Turnpike and Merrick Avenue would operate at an overall LOS F, D, and E during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively. Certain lane groups during Weekday Pre-Event and Saturday Midday peak hours would operate at LOS F for the eastbound, westbound, and southbound approaches.

Intersection 5: Glenn Curtiss Boulevard & Merrick Avenue

The signalized intersection of Glenn Curtiss Boulevard and Merrick Avenue would operate at an overall LOS C, B, and A during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively.

Intersection 6: Charles Lindbergh Boulevard & Merrick Avenue

The signalized intersection of Charles Lindbergh Boulevard and Merrick Avenue would operate at an overall LOS B, B, and A during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively.

Intersection 7: Charles Lindbergh Boulevard & James Doolittle Boulevard

The newly signalized intersection of Charles Lindbergh Boulevard & James Doolittle Boulevard would operate at an overall LOS A during all three peak hours.

Intersection 10: Westbound Charles Lindbergh Boulevard & Earle Ovington Boulevard

The signalized intersection of Westbound Charles Lindbergh Boulevard and Merrick Avenue would operate at an overall LOS C during all three peak hours.

Intersection 11: Eastbound Charles Lindbergh Boulevard / Coliseum VIP & Earle Ovington Boulevard

The signalized intersection of Eastbound Charles Lindbergh Boulevard (opposite the Coliseum's VIP parking lot entrance) and Earle Ovington Boulevard would operate at an overall LOS E, C, and C during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively. Certain lane groups during the Weekday Afternoon peak hour would operate at LOS F for the eastbound approach.

Intersection 12: Media / Staff Parking & Earle Ovington Boulevard

At the unsignalized intersection of the media/staff parking lot driveway with Earle Ovington Boulevard, the stop-controlled WB driveway approach would operate at LOS A during all three peak hours.

Intersection 13: Hofstra University / Coliseum Prepaid & Earle Ovington Boulevard

The signalized intersection of the Hofstra University access drive (opposite the Coliseum's prepaid parking lot entrance) and Earle Ovington Boulevard would operate at an overall LOS A, B, and B during the Weekday Afternoon, Weekday Pre-Event, and Saturday Midday peak hours, respectively.

Intersection 14: James Doolittle Boulevard & Hotel North Drive

At the unsignalized intersection of James Doolittle Boulevard and the Hotel North Drive, the stop-controlled EB driveway approach would operate at LOS A during all three peak hours.

Intersection 15: James Doolittle Boulevard & Hotel Center Drive

At the unsignalized intersection of James Doolittle Boulevard and the Hotel Center Drive, the stop-controlled EB driveway approach would operate at LOS A during all three peak hours.

Intersection 16: James Doolittle Boulevard & Hotel South Drive

At the unsignalized intersection of James Doolittle Boulevard and the Hotel South Drive, the stop-controlled EB driveway approach would operate at LOS A during all three peak hours.

Intersection 17: Hempstead Turnpike & New South Site Access Drive

The newly created signalized intersection at Hempstead Turnpike the site driveway opposite Gilroy Avenue would operate at an overall LOS C, B, and B during the Weekday Afternoon, Weekday Pre-Event and Saturday Midday peak hours, respectively.

Figure F-12
2017 Build with Improvements Conditions Traffic Volumes – Weekday Afternoon

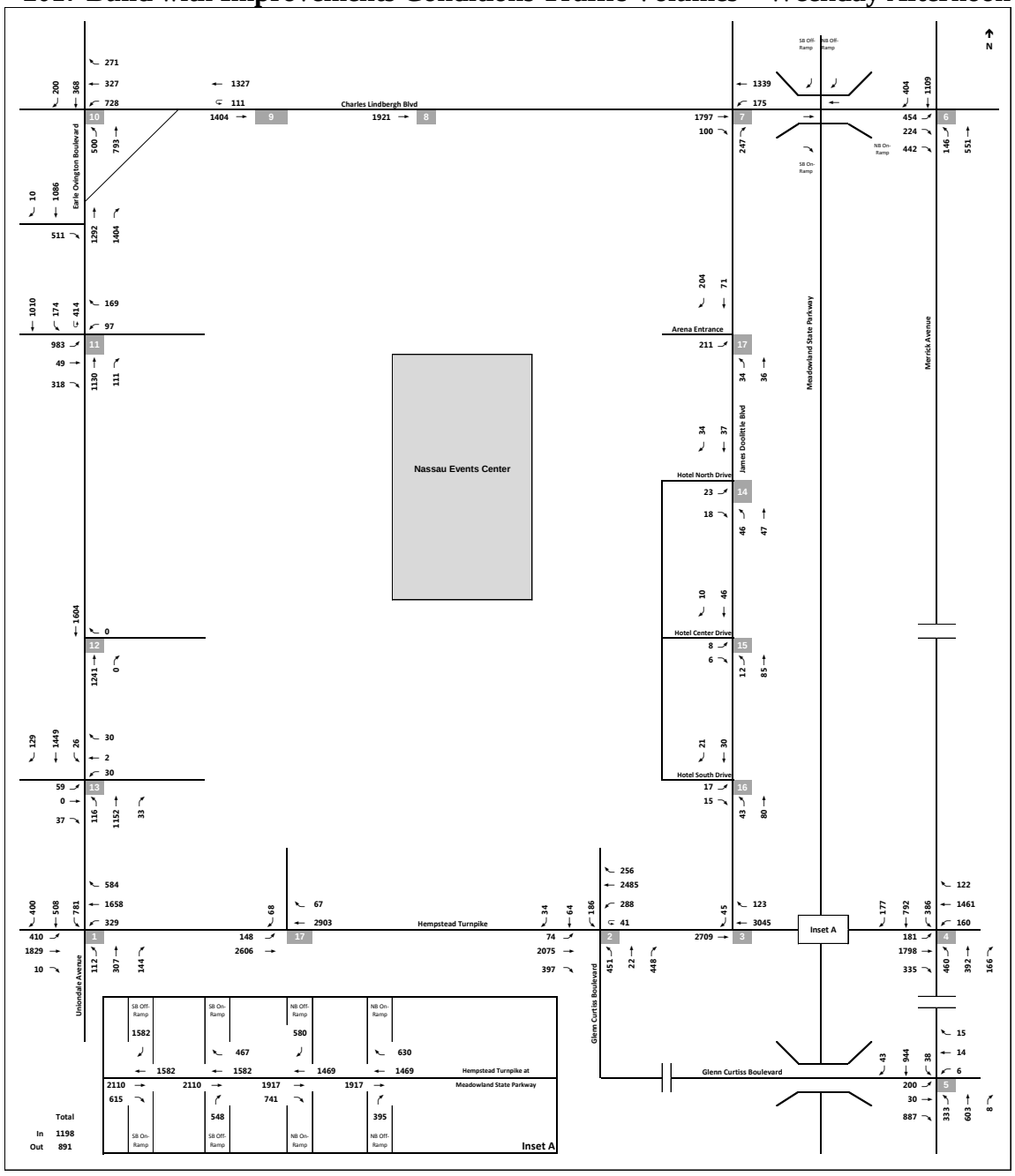


Figure F-13
2017 Build with Improvements Condition Traffic Volumes – Weekday Pre-Event

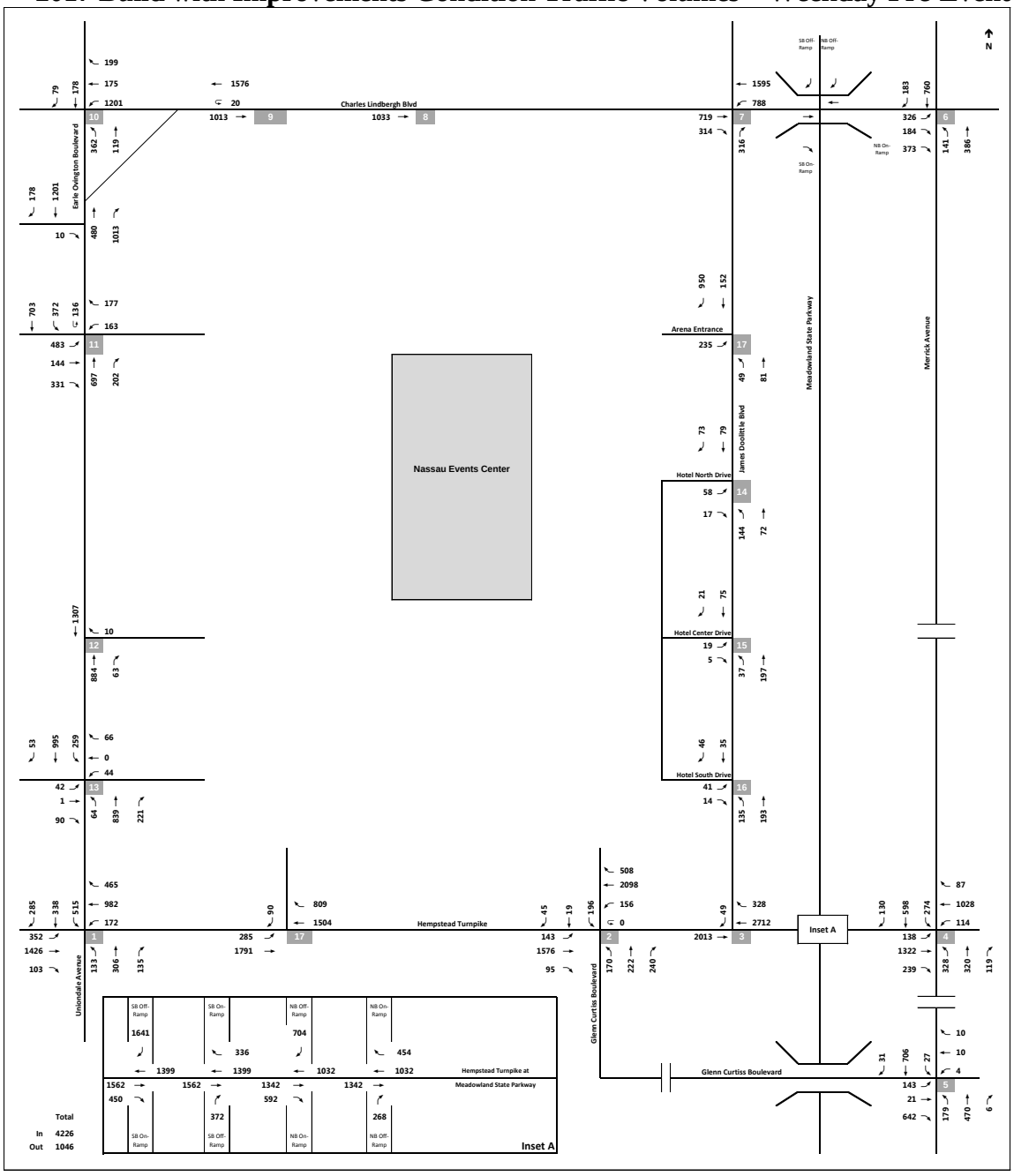


Figure F-14
2017 Build with Improvements Condition Traffic Volumes – Saturday Midday

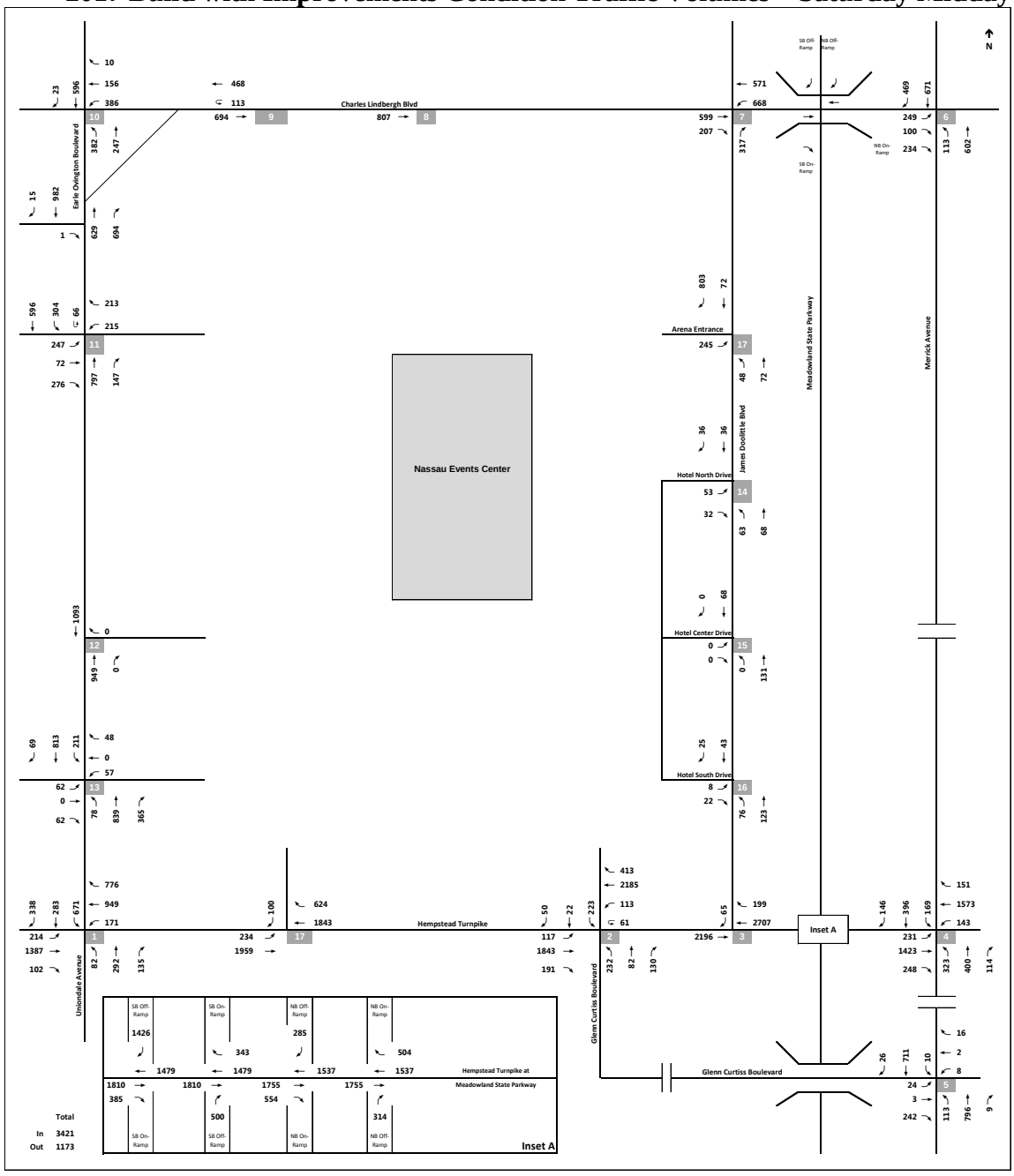


Table F-13
No Build vs. Build with Improvements LOS Comparison – Weekday Afternoon

#	Intersection & Approach	No Build					Build with Improvements					Impacts		
		Lane	LOS	Delay (sec)	95th Percentile Queue Length (ft)	Storage Length / Link Distance (ft)	Lane	LOS	Delay (sec)	95th Percentile Queue Length (ft)	Storage Length / Link Distance (ft)	Change in LOS	Project Delay (s)	Queue Length (ft)
1	**Hempstead Turnpike & Earle Ovington Boulevard / Uniondale Avenue**													
	Eastbound	L	F	238.4	449	240	L	F	171.6	462	240	No	-66.8	+13.0
		T	F	203.9	1251	1415	T	F	185.6	1210	1415	No	-18.3	-41.0
		R	D	48.0	144	200	R	D	51.5	242	300	No	+3.5	+98.0
		Approach	F	183.7			Approach	F	170.1					
	Westbound	L	F	93.2	334	150	L	F	90.5	340	150	No	-2.7	+6.0
		T	F	128.6	868	1856	T	F	147.8	1128	992	No	+19.2	+260.0
		R	A	4.1	377	210	R	A	4.3	359	210	No	+0.2	-18.0
		Approach	F	81.1			Approach	F	98.1					
	Northbound	L	F	95.6	188	75	L	F	117.1	187	75	No	+21.5	-1.0
		LT	F	160.3	236	142	T	F	191.0	231	142	No	+30.7	-5.0
		TR	F	150.9	239	142	TR	F	175.7	234	142	No	+24.8	-5.0
		Approach	F	146.3			Approach	F	170.4					
	Southbound	L	D	53.6	353	200	L	E	63.8	460	882	D → E	+10.2	+107.0
		LT	F	111.7	779	846	LT	F	107.0	742	881	No	-4.7	-37.0
		TR	F	113.3	764	846	T	F	104.4	707	881	No	-8.9	-57.0
		R	F	98.9	695	846	R	F	80.3	668	882	No	-18.6	-27.0
		Approach	F	94.8			Approach	F	82.9					
		Int.	**F**	**119.1**			**Int.**	**F**	**121.5**					
2	**Hempstead Turnpike & Glenn Curtiss Boulevard**													
	Eastbound	L	E	77.6	138	250	L	F	83.5	134	250	E → F	+5.9	-4.0
		T	D	45.6	406	1856	T	D	38.7	425	798	No	-6.9	+19.0
		R	A	3.1	338	235	R	A	4.0	116	350	No	+0.9	-222.0
		Approach	C	34.0			Approach	C	31.5					
	Westbound	UL	E	78.6	244	540	UL	E	74.2	259	540	No	-4.4	+15.0
		L	F	93.6	368	540	L	F	83.7	714	540	No	-9.9	+346.0
		T	C	35.0	628	1325	T	E	60.1	768	1325	C → E	+25.1	+140.0
		TR	D	46.5	742	1325								
		R	A	2.1	360	150	R	A	6.5	722	626	No	+4.4	+362.0
		Approach	D	42.4			Approach	D	54.9					
	Northbound	L	F	305.2	597	1600	L	F	274.7	567	1600	No	-30.5	-30.0
		LT	F	319.1	588	1600	LT	F	282.6	540	1600	No	-36.5	-48.0
		TR	F	358.5	534	1600	TR	F	337.7	510	1600	No	-20.8	-24.0
		R	F	356.2	608	1600	R	F	343.2	534	1600	No	-13.0	-74.0
		Approach	F	333.9			Approach	F	308.9					
	Southbound	L	E	79.2	173	153	L	E	78.2	140	504	No	-1.0	-33.0
		LT	E	58.7	156	153								
							T	E	64.1	76	404			
		TR	D	42.7	92	153	TR	E	66.6	105	404	D → E	+23.9	+13.0
		R	E	76.5	21	153								
		Approach	E	67.0			Approach	E	67.7					
		Int.	**E**	**72.0**			**Int.**	**E**	**76.8**					
3	**Hempstead Turnpike & James Doolittle Boulevard (Unsignalized)**													
	Southbound	R	D	51.0	135	408	R	A	1.3	8	408	D → A	-49.7	-127.0
4	**Hempstead Turnpike & Merrick Avenue**													
	Eastbound	L	F	100.6	261	165	L	F	102.9	255	165	No	+2.3	-6.0
		T	F	122.1	726	625	T	F	124.3	686	625	No	+2.2	-40.0
		R	A	6.2	298	165	R	A	7.5	297	165	No	+1.3	-1.0
		Approach	F	99.2			Approach	F	104.1					
	Westbound	L	F	82.3	302	480	L	F	82.4	274	480	No	+0.1	-28.0
		T	E	56.8	466	1070	T	E	57.7	478	1070	No	+0.9	+12.0
		TR	C	24.3	263	140	TR	C	25.8	277	140	No	+1.5	+14.0
		Approach	D	47.8			Approach	D	48.6					
	Northbound	L	F	223.1	440	325	L	F	238.2	442	325	No	+15.1	+2.0
		T	F	127.8	923	807	T	F	132.8	933	807	No	+5.0	+10.0
		TR	E	60.1	467	807	TR	E	59.6	673	807	No	-0.5	+206.0
		Approach	F	143.2			Approach	F	146.3					
	Southbound	L	F	100.4	373	898	L	F	97.8	330	898	No	-2.6	-43.0
		T	E	69.7	505	1715	T	E	72.4	558	1715	No	+2.7	+53.0
		R	C	27.6	270	150	R	C	23.9	276	150	No	-3.7	+6.0
		Approach	E	67.3			Approach	E	66.6					
		Int.	**F**	**84.9**			**Int.**	**F**	**87.2**					

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service
For unsignalized intersections, results are only reported for the controlled movements.

Table F-13 (Cont'd)
No Build vs. Build with Improvements LOS Comparison – Weekday Afternoon

#	Intersection & Approach	No Build					Build with Improvements					Impacts		
		Lane	LOS	Delay (sec)	95th Percentile Queue Length (ft)	Storage Length / Link Distance (ft)	Lane	LOS	Delay (sec)	95th Percentile Queue Length (ft)	Storage Length / Link Distance (ft)	Change in LOS	Project Delay (s)	Queue Length (ft)
	Glenn Curtiss Boulevard & Merrick Avenue													
5	Eastbound	LT	C	25.8	162	729	LT	C	26.8	181	729	No	+1.0	+19.0
		R	A	9.2	208	729	R	A	9.2	214	729	No	0.0	+6.0
		Approach	B	11.3			Approach	B	11.6					
	Westbound	LTR	B	13.9	49	211	LTR	B	16.7	52	211	No	+2.8	+3.0
		Approach	B	13.9			Approach	B	16.7					
	Northbound	L	B	18.3	120	450	L	B	19.0	121	450	No	+0.7	+1.0
		T	B	14.6	146	1015	T	B	14.3	146	1015	No	-0.3	0.0
		TR	B	11.0	134	1015	TR	B	11.1	151	1015	No	+0.1	+17.0
		Approach	B	14.8			Approach	B	14.7					
	Southbound	L	C	27.7	117	100	L	C	27.6	101	100	No	-0.1	-16.0
		T	D	35.8	404	1285	T	C	33.1	409	1285	D → C	-2.7	+5.0
		TR	D	36.1	418	1285	TR	C	34.1	424	1285	D → C	-2.0	+6.0
		Approach	D	35.7			Approach	C	33.4					
		Int.	**C**	**21.3**			**Int.**	**C**	**20.7**					
	Charles Lindbergh Boulevard & Merrick Avenue													
6	Eastbound	L	B	16.0	72	1300	L	B	14.6	73	1300	No	-1.4	+1.0
		Approach	B	14.0			Approach	B	12.4					
	Northbound	L	C	30.7	105	225	L	D	35.2	173	225	C → D	+4.5	+68.0
		T	B	10.7	160	775	T	B	12.3	175	775	No	+1.6	+15.0
		Approach	B	12.8			Approach	B	16.0					
	Southbound	T	B	18.5	290	2560	T	C	27.2	398	2560	B → C	+8.7	+108.0
		R	A	2.4	135	180	R	A	2.9	257	180	No	+0.5	+122.0
		Approach	B	13.6			Approach	B	19.3					
		Int.	**B**	**13.5**			**Int.**	**B**	**17.3**					
	Eastbound Charles Lindbergh Boulevard & James Doolittle Boulevard													
7	Eastbound	Unsignalized					T	B	16.2	188	1020			
							R	A	2.1	55	700			
							Approach	B	11.2					
	Westbound						L	A	8.4	66	265			
							T	A	4.4	0	1115			
							Approach	A	4.3					
	Northbound	R	A	0.2	0	709	R	A	2.4	0	375	No	+2.2	0.0
							Approach	A	2.4					
							Int.	**A**	**7.7**					
8	**Eastbound Charles Lindbergh Boulevard & Site Northern Access Drive (Unsignalized)**													
	Northbound	R	Access gate closed during this peak hour				R	Intersection eliminated						
9	**Charles Lindbergh Boulevard & Westbound U-Turn (Uncontrolled)**													
	Eastbound	T	Intersection is uncontrolled				T	Intersection is uncontrolled						
	Westbound Charles Lindbergh Boulevard & Earle Ovington Boulevard													
10	Westbound	L	C	20.2	250	140	L	C	21.4	244	140	No	+1.2	-6.0
		LT	C	30.8	297	1300	LT	C	30.3	293	1300	No	-0.5	-4.0
		TR	C	32.0	299	1300	TR	C	33.7	304	1300	No	+1.7	+5.0
		R	A	9.3	239	1300	R	B	14.2	260	1300	A → B	+4.9	+21.0
		Approach	C	25.8			Approach	C	26.6					
	Northbound	L	D	47.4	241	540	L	D	47.7	261	540	No	+0.3	+20.0
		T	B	15.2	192	540	T	B	15.5	188	540	No	+0.3	-4.0
		Approach	C	24.3			Approach	C	25.0					
	Southbound	T	C	30.8	199	665	T	C	29.3	201	665	No	-1.5	+2.0
		TR	B	10.5	189	665	TR	B	11.3	195	665	No	+0.8	+6.0
		Approach	B	20.0			Approach	B	20.0					
		Int.	**C**	**24.1**			**Int.**	**C**	**24.8**					
	Eastbound Charles Lindbergh Boulevard / Coliseum VIP & Earle Ovington Boulevard													
11	Eastbound	L	D	51.7	518	1085	L	F	107.5	903	1085	D → F	+55.8	+385.0
		T	D	53.9	62	1085	T	E	68.7	105	1085	D → E	+14.8	+43.0
		R	A	0.3	0	1085	R	A	0.4	0	1085	No	+0.1	0.0
		Approach	D	38.4			Approach	E	79.2					
	Westbound	L	F	88.8	19	284	L	E	58.5	80	232	F → E	-30.3	+61.0
		R	A	2.3	26	284	R	A	2.9	0	348	No	+0.6	-26.0
		Approach	A	4.3			Approach	C	22.5					
	Northbound	T	E	70.0	389	534	T	E	68.3	402	545	No	-1.7	+13.0
		R	B	10.5	80	534	R	A	8.5	83	545	B → A	-2.0	+3.0
		Approach	E	60.5			Approach	E	57.1					
	Southbound	UL	D	48.2	252	175	UL	E	58.4	390	300	D → E	+10.2	+138.0
		T	E	71.4	571	940	T	E	63.8	524	940	No	-7.6	-47.0
		Approach	D	54.1			Approach	D	54.8					
		Int.	**D**	**49.0**			**Int.**	**E**	**61.2**					

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service
For unsignalized intersections, results are only reported for the controlled movements.

Table F-13 (Cont'd)
No Build vs. Build with Improvements LOS Comparison – Weekday Afternoon

#	Intersection & Approach	No Build					Build with Improvements					Impacts		
		Lane	LOS	Delay (sec)	95th Percentile Queue Length (ft)	Storage Length / Link Distance (ft)	Lane	LOS	Delay (sec)	95th Percentile Queue Length (ft)	Storage Length / Link Distance (ft)	Change in LOS	Project Delay (s)	Queue Length (ft)
12	**Media / Staff Parking & Earle Ovington Boulevard (Unsignalized)**													
	Westbound	R	No volume observed during this peak hour				R	No volume observed during this peak hour						
13	**Hofstra University / Coliseum Prepaid & Earle Ovington Boulevard**													
	Eastbound	LT	C	22.6	52	343	LT	D	39.8	75	344	C → D	+17.2	+23.0
		R	A	6.5	53	343	R	A	6.9	50	344	No	+0.4	-3.0
		Approach	B	16.3			Approach	C	27.3					
	Westbound	L	C	31.9	14	432	L	D	36.0	44	312	C → D	+4.1	+30.0
		T	D	39.2	12	432	TR	A	8.2	42	312	D → A	-31.0	+30.0
		R	A	5.1	25	432								
		Approach	C	21.3			Approach	C	21.5					
	Northbound	L	D	51.3	109	150	L	B	17.7	61	150	D → B	-33.6	-48.0
		T	B	14.4	169	846	T	B	13.9	31	881	No	-0.5	-138.0
		R	A	1.3	0	500	R	A	0.9	0	500	No	-0.4	0.0
		Approach	B	14.9			Approach	B	10.2					
	Southbound	L	C	20.2	10	150	L	D	36.0	24	450	C → D	+15.8	+14.0
		T	A	6.1	97	870	T	A	7.5	161	870	No	+1.4	+64.0
		TR	A	5.6	83	520	TR	A	7.4	148	520	No	+1.8	+65.0
		Approach	A	5.6			Approach	A	7.6					
		Int.	**B**	**10.1**			**Int.**	**A**	**9.6**					
14	**James Doolittle Boulevard & Hotel North Drive (Unsignalized)**													
	Eastbound	LR	A	3.5	44	124	LR	A	3.4	44	124	No	-0.1	0.0
15	**James Doolittle Boulevard & Hotel Center Drive (Unsignalized)**													
	Eastbound	LR	A	3.3	34	183	LR	A	3.7	34	183	No	+0.4	0.0
16	**James Doolittle Boulevard & Hotel South Drive (Unsignalized)**													
	Eastbound	LR	A	3.7	45	270	LR	A	3.7	43	270	No	0.0	-2.0
17	**Hempstead Turnpike & New South Site Access Drive**													
	Eastbound	Intersection Does Not Exist					L	C	34.7	159	225			
							T	A	10.0	0	992			
							Approach	B	10.4					
	Westbound						T	D	46.8	846	798			
							R	A	2.6	406	300			
							Approach	D	42.4					
	Southbound						R	D	42.1	70	326			
							Approach	D	38.6					
							Int.	**C**	**27.4**					

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service
For unsignalized intersections, results are only reported for the controlled movements.

Table F-14
No Build vs. Build with Improvements LOS Comparison – Weekday Pre-Event

#	Intersection & Approach	No Build					Build with Improvements					Impacts		
		Lane	LOS	Delay (sec)	95th Percentile Queue Length (ft)	Storage Length / Link Distance (ft)	Lane	LOS	Delay (sec)	95th Percentile Queue Length (ft)	Storage Length / Link Distance (ft)	Change in LOS	Project Delay (s)	Queue Length (ft)
1	**Hempstead Turnpike & Earle Ovington Boulevard / Uniondale Avenue**													
	Eastbound	L	F	303.2	422	240	L	F	237.8	459	240	No	-65.4	+37.0
		T	F	153.8	1292	1415	T	F	102.4	1185	1415	No	-51.4	-107.0
		R	C	30.6	210	200	R	C	28.9	125	300	No	-1.7	-85.0
		Approach	F	113.1			Approach	F	84.5					
	Westbound	L	F	81.6	134	150	L	E	73.6	158	150	F → E	-8.0	+24.0
		T	D	47.3	200	1856	T	D	49.4	249	992	No	+2.1	+49.0
		R	A	2.7	0	210	R	A	2.9	93	210	No	+0.2	+93.0
		Approach	C	33.8			Approach	C	34.4					
	Northbound	L	F	85.2	182	75	L	F	90.4	177	75	No	+5.2	-5.0
		LT	F	145.9	251	142	T	F	123.9	266	142	No	-22.0	+15.0
		TR	F	156.2	229	142	TR	F	148.7	228	142	No	-7.5	-1.0
		Approach	F	140.7			Approach	F	127.9					
	Southbound	L	D	43.3	284	200	L	D	50.1	307	882	No	+6.8	+23.0
		LT	E	58.1	327	846	LT	E	63.3	333	881	No	+5.2	+6.0
		TR	E	58.5	309	846	T	E	65.0	322	881	No	+6.5	+13.0
		R	E	56.5	272	846	R	D	43.5	281	882	E → D	-13.0	+9.0
		Approach	D	54.1			Approach	D	53.8					
		Int.	**E**	**79.9**			**Int.**	**E**	**68.1**					
2	**Hempstead Turnpike & Glenn Curtiss Boulevard**													
	Eastbound	L	F	85.9	216	250	L	F	115.2	223	250	No	+29.3	+7.0
		T	B	16.3	181	1856	T	B	15.0	271	798	No	-1.3	+90.0
		R	A	2.5	0	0	R	A	3.0	0	350	No	+0.5	0.0
		Approach	C	23.0			Approach	C	21.9					
	Westbound	UL	D	53.8	113	540	UL	D	53.0	121	540	No	-0.8	+8.0
		L	F	81.6	138	540	L	F	86.3	137	540	No	+4.7	-1.0
		T	B	18.5	242	1325	T	E	59.5	744	1325	B → E	+41.0	+502.0
		TR	D	39.6	773	1325								
		R	A	1.7	102	150	R	A	9.0	863	626	No	+7.3	+761.0
		Approach	C	22.2			Approach	D	37.8					
	Northbound	L	F	110.1	542	1600	L	F	156.0	635	1600	No	+45.9	+93.0
		LT	F	298.6	553	1600	LT	F	324.5	498	1600	No	+25.9	-55.0
		TR	F	317.8	561	1600	TR	F	307.9	538	1600	No	-9.9	-23.0
		R	F	276.1	551	1600	R	F	133.3	489	1600	No	-142.8	-62.0
		Approach	F	266.3			Approach	F	249.3					
	Southbound	L	F	98.3	16	153	L	E	75.3	126	504	F → E	-23.0	+110.0
		LT	E	67.6	15	153								
							T	D	53.3	26	404			
		TR	E	77.2	21	153	TR	E	60.2	89	404	No	-17.0	+68.0
		R	F	115.0	11	153								
		Approach	F	84.8			Approach	E	65.2					
		Int.	**E**	**55.8**			**Int.**	**E**	**55.2**					
3	**Hempstead Turnpike & James Doolittle Boulevard (Unsignalized)**													
	Southbound	R	F	3252.9	485	408	R	A	1.7	0	0	F → A	-3251.2	-485.0
4	**Hempstead Turnpike & Merrick Avenue**													
	Eastbound	L	F	86.4	257	165	L	F	89.1	262	165	No	+2.7	+5.0
		T	D	47.3	509	625	T	D	55.0	570	625	No	+7.7	+61.0
		R	A	6.7	166	165	R	A	7.3	202	165	No	+0.6	+36.0
		Approach	D	37.1			Approach	D	42.4					
	Westbound	L	E	71.9	189	480	L	E	71.2	163	480	No	-0.7	-26.0
		T	D	40.8	346	1070	T	D	46.6	366	1070	No	+5.8	+20.0
		TR	C	23.0	145	140	TR	C	26.7	168	140	No	+3.7	+23.0
		Approach	D	37.8			Approach	D	41.8					
	Northbound	L	E	79.6	243	325	L	E	78.6	247	325	No	-1.0	+4.0
		T	D	51.0	210	807	T	D	51.2	261	807	No	+0.2	+51.0
		TR	E	58.2	248	807	TR	E	56.5	285	807	No	-1.7	+37.0
		Approach	E	62.8			Approach	E	61.3					
	Southbound	L	F	86.0	202	898	L	F	86.2	223	898	No	+0.2	+21.0
		T	E	59.0	345	1715	T	E	56.9	393	1715	No	-2.1	+48.0
		R	D	35.4	242	150	R	C	30.0	267	150	D → C	-5.4	+25.0
		Approach	E	59.0			Approach	E	56.1					
		Int.	**D**	**45.9**			**Int.**	**D**	**48.3**					

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service
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Table F-14 (Cont'd)
No Build vs. Build with Improvements LOS Comparison – Weekday Pre-Event

#	Intersection & Approach	No Build					Build with Improvements					Impacts		
		Lane	LOS	Delay (sec)	95th Percentile Queue Length (ft)	Storage Length / Link Distance (ft)	Lane	LOS	Delay (sec)	95th Percentile Queue Length (ft)	Storage Length / Link Distance (ft)	Change in LOS	Project Delay (s)	Queue Length (ft)
	Glenn Curtiss Boulevard & Merrick Avenue													
5	Eastbound	LT	C	24.9	128	729	LT	C	23.4	133	729	No	-1.5	+5.0
		R	A	6.0	153	729	R	A	7.0	171	729	No	+1.0	+18.0
		Approach	A	9.0			Approach	A	9.5					
	Westbound	LTR	B	15.7	43	211	LTR	B	18.3	43	211	No	+2.6	0.0
		Approach	B	15.0			Approach	B	19.0					
	Northbound	L	B	13.6	96	450	L	B	13.6	84	450	No	0.0	-12.0
		T	B	12.6	106	1015	T	B	12.5	114	1015	No	-0.1	+8.0
		TR	A	8.0	92	1015	TR	A	7.9	105	1015	No	-0.1	+13.0
		Approach	B	11.6			Approach	B	11.3					
	Southbound	L	B	20.0	90	100	L	C	26.9	81	100	B → C	+6.9	-9.0
		T	C	20.5	264	1285	T	C	24.4	339	1285	No	+3.9	+75.0
		TR	B	19.3	282	1285	TR	C	23.5	343	1285	B → C	+4.2	+61.0
		Approach	B	19.8			Approach	C	24.0					
		Int.	**B**	**13.9**			**Int.**	**B**	**15.7**					
	Charles Lindbergh Boulevard & Merrick Avenue													
6	Eastbound	L	B	17.4	64	1300	L	B	17.9	65	1300	No	+0.5	+1.0
		Approach	B	17.4			Approach	B	15.1					
	Northbound	L	B	19.1	88	225	L	C	20.8	144	225	B → C	+1.7	+56.0
		T	A	7.9	112	775	T	A	8.6	114	775	No	+0.7	+2.0
		Approach	A	9.4			Approach	B	11.5					
	Southbound	T	A	9.7	163	2560	T	B	12.4	185	2560	A → B	+2.7	+22.0
		R	A	1.7	47	180	R	A	1.6	67	180	No	-0.1	+20.0
		Approach	A	7.3			Approach	A	10.0					
		Int.	**A**	**9.4**			**Int.**	**B**	**11.3**					
	Eastbound Charles Lindbergh Boulevard & James Doolittle Boulevard													
7	Eastbound	Unsignalized					T	C	26.9	168	1020			
							R	C	20.7	196	700			
							Approach	C	21.4					
	Westbound						L	A	8.7	167	265			
							T	A	5.7	10	1115			
							Approach	A	6.2					
	Northbound	R	A	0.2	0	709	R	A	3.3	0	375	No	+3.1	0.0
							Approach	A	3.3					
							Int.	**A**	**9.9**					
8	**Eastbound Charles Lindbergh Boulevard & Site Northern Access Drive (Unsignalized)**													
	Northbound	R	Access gate closed during this peak hour				R	Intersection eliminated						
9	**Charles Lindbergh Boulevard & Westbound U-Turn (Uncontrolled)**													
	Eastbound	T	Intersection is uncontrolled				T	Intersection is uncontrolled						
	Westbound Charles Lindbergh Boulevard & Earle Ovington Boulevard													
10	Westbound	L	B	15.5	248	140	L	B	18.0	263	140	No	+2.5	+15.0
		LT	C	22.7	287	1300	LT	C	29.1	358	1300	No	+6.4	+71.0
		TR	C	31.3	306	1300	TR	D	53.3	369	1300	C → D	+22.0	+63.0
		R	A	7.8	237	1300	R	B	11.2	308	1300	A → B	+3.4	+71.0
		Approach	C	20.6			Approach	C	27.0					
	Northbound	L	D	35.1	153	540	L	D	37.4	168	540	No	+2.3	+15.0
		T	B	13.6	57	540	T	B	14.7	55	540	No	+1.1	-2.0
		Approach	C	25.6			Approach	C	28.2					
	Southbound	T	C	28.6	127	665	T	C	31.2	127	665	No	+2.6	0.0
		TR	B	10.5	92	665	TR	B	12.2	93	665	No	+1.7	+1.0
		Approach	B	19.9			Approach	C	22.0					
		Int.	**C**	**21.5**			**Int.**	**C**	**26.7**					
	Eastbound Charles Lindbergh Boulevard / Coliseum VIP & Earle Ovington Boulevard													
11	Eastbound	L	C	31.8	243	1085	L	C	30.6	220	1085	No	-1.2	-23.0
		T	C	33.8	141	1085	T	D	40.8	179	1085	C → D	+7.0	+38.0
		R	A	1.0	0	1085	R	A	0.9	0	1085	No	-0.1	0.0
		Approach	C	20.6			Approach	C	21.6					
	Westbound	L	D	41.9	59	284	L	D	49.4	87	232	No	+7.5	+28.0
		R	A	2.0	0	284	R	A	3.1	0	348	No	+1.1	0.0
		Approach	B	14.4			Approach	C	24.4					
	Northbound	T	D	39.0	248	534	T	D	46.4	241	545	No	+7.4	-7.0
		R	A	8.6	95	534	R	A	5.9	91	545	No	-2.7	-4.0
		Approach	C	32.0			Approach	D	36.4					
	Southbound	UL	B	18.9	204	175	UL	C	24.2	288	300	B → C	+5.3	+84.0
		T	B	14.7	209	940	T	C	21.0	291	940	B → C	+6.3	+82.0
		Approach	B	15.2			Approach	C	20.6					
		Int.	**C**	**21.7**			**Int.**	**C**	**25.1**					

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service
For unsignalized intersections, results are only reported for the controlled movements.

Table F-14 (Cont'd)
No Build vs. Build with Improvements LOS Comparison – Weekday Pre-Event

#	Intersection & Approach	No Build					Build with Improvements					Impacts		
		Lane	LOS	Delay (sec)	95th Percentile Queue Length (ft)	Storage Length / Link Distance (ft)	Lane	LOS	Delay (sec)	95th Percentile Queue Length (ft)	Storage Length / Link Distance (ft)	Change in LOS	Project Delay (s)	Queue Length (ft)
12	**Media / Staff Parking & Earle Ovington Boulevard (Unsignalized)**													
	Westbound	R	A	3.8	34	201	R	A	2.9	30	46			
13	**Hofstra University / Coliseum Prepaid & Earle Ovington Boulevard**													
	Eastbound	LT	C	21.3	41	343	LT	D	37.3	52	344	C → D	+16.0	+11.0
		R	A	5.7	56	343	R	A	6.5	58	344	No	+0.8	+2.0
		Approach	B	10.1			Approach	B	16.2					
	Westbound	L	C	27.2	16	432	L	D	41.3	49	312	C → D	+14.1	+33.0
		T	A	0.0	0	432	TR	A	3.6	42	312	No	+3.6	+42.0
		R	A	4.0	48	432								
		Approach	A	7.3			Approach	B	18.6					
	Northbound	L	B	20.0	35	150	L	B	11.0	32	150	No	-9.0	-3.0
		T	B	15.9	38	846	T	C	23.3	126	881	B → C	+7.4	+88.0
		R	A	1.6	3	500	R	A	2.6	7	500	No	+1.0	+4.0
		Approach	B	11.0			Approach	B	14.8					
	Southbound	L	D	47.8	238	150	L	C	30.5	203	450	D → C	-17.3	-35.0
		T	A	9.0	230	870	T	A	5.1	75	870	No	-3.9	-155.0
		TR	A	3.9	35	520	TR	A	4.8	57	520	No	+0.9	+22.0
		Approach	B	15.0			Approach	A	9.8					
		Int.	**B**	**12.9**			**Int.**	**B**	**12.4**					
14	**James Doolittle Boulevard & Hotel North Drive (Unsignalized)**													
	Eastbound	LR	F	111.9	123	124	LR	A	6.0	56	124	F → A	-105.9	-67.0
15	**James Doolittle Boulevard & Hotel Center Drive (Unsignalized)**													
	Eastbound	LR	F	308.7	148	183	LR	A	5.2	44	183	F → A	-303.5	-104.0
16	**James Doolittle Boulevard & Hotel South Drive (Unsignalized)**													
	Eastbound	LR	F	937.5	356	270	LR	A	5.7	49	270	F → A	-931.8	-307.0
17	**Hempstead Turnpike & New South Site Access Drive**													
	Eastbound	Intersection Does Not Exist					L	C	24.6	233	225			
							T	B	10.9	150	992			
							Approach	A	9.3					
	Westbound						T	C	26.9	239	798			
							R	B	14.0	378	300			
							Approach	B	15.1					
	Southbound						R	C	24.4	60	326			
							Approach	C	23.6					
							Int.	**B**	**12.3**					

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service
For unsignalized intersections, results are only reported for the controlled movements.

Table F-15
No Build vs. Build with Improvements LOS Comparison – Saturday Midday

#	Intersection & Approach	No Build					Build with Improvements					Impacts		
		Lane	LOS	Delay (sec)	95th Percentile Queue Length (ft)	Storage Length / Link Distance (ft)	Lane	LOS	Delay (sec)	95th Percentile Queue Length (ft)	Storage Length / Link Distance (ft)	Change in LOS	Project Delay (s)	Queue Length (ft)
1	**Hempstead Turnpike & Earle Ovington Boulevard / Uniondale Avenue**													
	Eastbound	L	F	233.8	391	240	L	F	105.3	389	240	No	-128.5	-2.0
		T	E	66.9	473	1415	T	E	64.8	514	1415	No	-2.1	+41.0
		R	C	31.2	155	200	R	C	30.2	135	300	No	-1.0	-20.0
		Approach	E	70.1			Approach	D	54.1					
	Westbound	L	E	77.5	137	150	L	E	69.2	138	150	No	-8.3	+1.0
		T	F	87.8	237	1856	T	E	69.2	265	992	F → E	-18.6	+28.0
		R	A	4.3	55	210	R	A	3.5	82	210	No	-0.8	+27.0
		Approach	D	36.9			Approach	D	36.2					
	Northbound	L	E	59.2	180	75	L	E	72.1	161	75	No	+12.9	-19.0
		LT	F	116.3	262	142	T	F	95.8	258	142	No	-20.5	-4.0
		TR	F	143.6	229	142	TR	F	141.3	245	142	No	-2.3	+16.0
		Approach	F	124.3			Approach	F	113.7					
	Southbound	L	C	34.2	321	200	L	D	39.8	324	882	C → D	+5.6	+3.0
		LT	D	48.9	381	846	LT	D	53.4	363	881	No	+4.5	-18.0
		TR	D	50.6	348	846	T	D	52.3	339	881	No	+1.7	-9.0
		R	D	39.2	294	846	R	C	31.6	222	882	D → C	-7.6	-72.0
		Approach	D	44.3			Approach	D	43.4					
		Int.	**E**	**57.5**			**Int.**	**D**	**51.3**					
2	**Hempstead Turnpike & Glenn Curtiss Boulevard**													
	Eastbound	L	F	96.9	187	250	L	F	101.5	170	250	No	+4.6	-17.0
		T	C	27.8	322	1856	T	C	25.2	340	798	No	-2.6	+18.0
		R	A	2.6	112	235	R	A	3.5	0	350	No	+0.9	-112.0
		Approach	C	29.8			Approach	C	26.0					
	Westbound	UL	F	90.8	156	540	UL	E	75.8	128	540	F → E	-15.0	-28.0
		L	E	76.7	135	540	L	E	68.2	117	540	No	-8.5	-18.0
		T	C	23.8	541	1325	T	F	82.6	767	1325	C → F	+58.8	+226.0
		TR	E	62.1	870	1325								
		R	A	2.1	364	150	R	B	11.1	855	626	A → B	+9.0	+491.0
		Approach	C	32.8			Approach	D	50.2					
	Northbound	L	E	64.4	184	1600	L	E	61.9	220	1600	No	-2.5	+36.0
		LT	F	80.0	253	1600	LT	F	141.3	427	1600	No	+61.3	+174.0
		TR	E	64.6	207	1600	TR	F	80.7	325	1600	E → F	+16.1	+118.0
		R	D	40.0	125	1600	R	D	37.7	178	1600	No	-2.3	+53.0
		Approach	E	68.7			Approach	F	99.8					
	Southbound	L	E	64.2	93	153	L	E	65.5	138	504	No	+1.3	+45.0
		LT	D	41.0	49	153								
							T	D	47.9	34	404			
		TR	D	51.4	31	153	TR	D	50.6	85	404	No	-0.8	+54.0
		R	E	66.7	31	153								
		Approach	E	59.9			Approach	E	57.0					
		Int.	**D**	**35.1**			**Int.**	**D**	**45.0**					
3	**Hempstead Turnpike & James Doolittle Boulevard (Unsignalized)**													
	Southbound	R	F	2788.5	448	408	R	A	1.4	11	408	F → A	-2787.1	-437.0
4	**Hempstead Turnpike & Merrick Avenue**													
	Eastbound	L	F	221.5	217	165	L	F	191.8	217	165	No	-29.7	0.0
		T	F	522.3	875	625	T	F	416.3	788	625	No	-106.0	-87.0
		R	A	2.2	141	165	R	A	3.0	170	165	No	+0.8	+29.0
		Approach	F	97.8			Approach	F	91.6					
	Westbound	L	F	276.0	586	480	L	F	182.8	411	480	No	-93.2	-175.0
		T	E	55.4	864	1070	T	D	48.6	442	1070	E → D	-6.8	-422.0
		TR	B	18.3	235	140	TR	C	20.8	257	140	B → C	+2.5	+22.0
		Approach	E	57.0			Approach	D	49.0					
	Northbound	L	E	65.5	214	325	L	E	70.0	215	325	No	+4.5	+1.0
		T	D	49.5	226	807	T	D	47.8	270	807	No	-1.7	+44.0
		TR	E	57.0	262	807	TR	D	53.2	292	807	E → D	-3.8	+30.0
		Approach	E	56.7			Approach	E	55.7					
	Southbound	L	D	47.7	135	898	L	D	52.5	131	898	No	+4.8	-4.0
		T	D	54.7	198	1715	T	D	52.1	240	1715	No	-2.6	+42.0
		R	D	35.3	176	150	R	C	31.6	211	150	D → C	-3.7	+35.0
		Approach	D	45.7			Approach	D	45.1					
		Int.	**E**	**66.4**			**Int.**	**E**	**61.7**					

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service
For unsignalized intersections, results are only reported for the controlled movements.

Table F-15 (Cont'd)
No Build vs. Build with Improvements LOS Comparison – Saturday Midday

#	Intersection & Approach	No Build					Build with Improvements					Impacts		
		Lane	LOS	Delay (sec)	95th Percentile Queue Length (ft)	Storage Length / Link Distance (ft)	Lane	LOS	Delay (sec)	95th Percentile Queue Length (ft)	Storage Length / Link Distance (ft)	Change in LOS	Project Delay (s)	Queue Length (ft)
	Glenn Curtiss Boulevard & Merrick Avenue													
5	Eastbound	LT	C	22.3	44	729	LT	C	24.2	49	729	No	+1.9	+5.0
		R	A	2.9	72	729	R	A	3.3	82	729	No	+0.4	+10.0
		Approach	A	4.6			Approach	A	5.2					
	Westbound	LTR	B	11.7	44	211	LTR	A	9.8	45	211	B → A	-1.9	+1.0
		Approach	B	12.2			Approach	B	10.2					
	Northbound	L	A	7.5	67	450	L	A	9.1	70	450	No	+1.6	+3.0
		T	A	9.3	122	1015	T	A	10.0	139	1015	No	+0.7	+17.0
		TR	A	4.9	103	1015	TR	A	5.7	118	1015	No	+0.8	+15.0
		Approach	A	7.4			Approach	A	8.1					
	Southbound	L	B	13.0	17	100	L	B	10.4	14	100	No	-2.6	-3.0
		T	B	10.4	134	1285	T	B	12.6	161	1285	No	+2.2	+27.0
		TR	A	8.2	150	1285	TR	B	11.0	184	1285	A → B	+2.8	+34.0
		Approach	A	9.0			Approach	B	11.6					
		Int.	**A**	**7.6**			**Int.**	**A**	**9.0**					
	Charles Lindbergh Boulevard & Merrick Avenue													
6	Eastbound	L	C	21.8	62	1300	L	B	19.1	64	1300	C → B	-2.7	+2.0
		Approach	C	21.0			Approach	B	17.6					
	Northbound	L	B	12.0	50	225	L	B	16.3	105	225	No	+4.3	+55.0
		T	A	6.4	124	775	T	A	7.7	138	775	No	+1.3	+14.0
		Approach	A	6.6			Approach	A	9.0					
	Southbound	T	A	9.5	120	2560	T	B	11.0	141	2560	A → B	+1.5	+21.0
		R	A	2.6	87	180	R	A	3.5	159	180	No	+0.9	+72.0
		Approach	A	5.4			Approach	A	7.2					
		Int.	**A**	**7.2**			**Int.**	**A**	**9.0**					
	Eastbound Charles Lindbergh Boulevard & James Doolittle Boulevard													
7	Eastbound	Unsignalized					T	C	20.3	136	1020			
							R	B	10.9	112	700			
							Approach	B	15.1					
	Westbound						L	A	8.1	142	265			
							T	A	3.7	0	1115			
							Approach	A	5.8					
	Northbound	R	A	0.2	0	709	R	A	3.1	0	375	No	+2.9	0.0
							Approach	A	3.1					
							Int.	**A**	**8.6**					
8	**Eastbound Charles Lindbergh Boulevard & Site Northern Access Drive**													
	Northbound	R	Access gate closed during this peak hour				R	Intersection eliminated						
9	**Charles Lindbergh Boulevard & Westbound U-Turn (Uncontrolled)**													
	Eastbound	T	Intersection is uncontrolled				T	Intersection is uncontrolled						
	Westbound Charles Lindbergh Boulevard & Earle Ovington Boulevard													
10	Westbound	L	B	18.3	95	140	L	B	19.6	137	140	No	+1.3	+42.0
		LT	C	22.8	125	1300	LT	C	22.0	152	1300	No	-0.8	+27.0
		TR	B	19.0	105	1300	TR	C	22.1	131	1300	B → C	+3.1	+26.0
		R	B	11.1	23	1300	R	A	5.3	28	1300	B → A	-5.8	+5.0
		Approach	C	20.6			Approach	C	21.0					
	Northbound	L	C	31.6	156	540	L	C	34.6	178	540	No	+3.0	+22.0
		T	A	8.2	74	540	T	A	8.1	80	540	No	-0.1	+6.0
		Approach	B	19.6			Approach	C	21.0					
	Southbound	T	C	23.1	220	665	T	C	27.3	230	665	No	+4.2	+10.0
		TR	B	15.3	180	665	TR	B	16.2	205	665	No	+0.9	+25.0
		Approach	C	20.5			Approach	C	23.3					
		Int.	**C**	**20.2**			**Int.**	**C**	**21.8**					
	Eastbound Charles Lindbergh Boulevard / Coliseum VIP & Earle Ovington Boulevard													
11	Eastbound	L	C	21.9	122	1085	L	C	23.4	119	1085	No	+1.5	-3.0
		T	C	31.9	72	1085	T	C	33.1	88	1085	No	+1.2	+16.0
		R	A	0.8	0	1085	R	A	0.6	0	1085	No	-0.2	0.0
		Approach	B	11.5			Approach	B	13.7					
	Westbound	L	C	29.6	98	284	L	D	38.3	102	232	C → D	+8.7	+4.0
		R	A	2.0	0	284	R	A	3.1	0	348	No	+1.1	0.0
		Approach	B	14.9			Approach	B	20.0					
	Northbound	T	C	24.8	218	534	T	D	40.6	259	545	C → D	+15.8	+41.0
		R	A	4.0	60	534	R	A	5.1	72	545	No	+1.1	+12.0
		Approach	C	21.4			Approach	C	33.7					
	Southbound	UL	B	13.4	116	175	UL	C	22.1	200	300	B → C	+8.7	+84.0
		T	A	8.7	111	940	T	B	15.5	170	940	A → B	+6.8	+59.0
		Approach	A	9.6			Approach	B	16.9					
		Int.	**B**	**14.6**			**Int.**	**C**	**21.7**					

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service
For unsignalized intersections, results are only reported for the controlled movements.

Table F-15 (Cont'd)
No Build vs. Build with Improvements LOS Comparison – Saturday Midday

#	Intersection & Approach	No Build					Build with Improvements					Impacts		
		Lane	LOS	Delay (sec)	95th Percentile Queue Length (ft)	Storage Length / Link Distance (ft)	Lane	LOS	Delay (sec)	95th Percentile Queue Length (ft)	Storage Length / Link Distance (ft)	Change in LOS	Project Delay (s)	Queue Length (ft)
12	**Media / Staff Parking & Earle Ovington Boulevard (Unsignalized)**													
	Westbound	R	No volume observed during this peak hour				R	No volume observed during this peak hour						
13	**Hofstra University / Coliseum Prepaid & Earle Ovington Boulevard**													
	Eastbound	LT	B	19.6	49	343	LT	C	32.7	60	344	B → C	+13.1	+11.0
		R	A	4.8	48	343	R	A	5.5	50	344	No	+0.7	+2.0
		Approach	B	11.7			Approach	B	19.5					
	Westbound	L	C	25.0	33	432	L	C	29.9	66	312	No	+4.9	+33.0
		T	A	0.0	0	432	TR	A	4.8	41	312	No	+4.8	+41.0
		R	A	4.4	30	432								
		Approach	B	17.3			Approach	B	19.4					
	Northbound	L	B	14.2	30	150	L	B	11.4	27	150	No	-2.8	-3.0
		T	C	27.5	40	846	T	D	35.7	68	881	C → D	+8.2	+28.0
		R	A	2.5	22	500	R	A	7.0	46	500	No	+4.5	+24.0
		Approach	B	12.8			Approach	B	18.8					
	Southbound	L	F	101.2	292	150	L	C	28.7	161	450	F → C	-72.5	-131.0
		T	C	27.6	353	870	T	A	5.3	57	870	C → A	-22.3	-296.0
		TR	A	3.6	25	520	TR	A	5.2	52	520	No	+1.6	+27.0
		Approach	C	29.1			Approach	A	9.8					
		Int.	**B**	**19.7**			**Int.**	**B**	**14.8**					
14	**James Doolittle Boulevard & Hotel North Drive (Unsignalized)**													
	Eastbound	LR	F	125.3	131	124	LR	A	4.1	57	124	F → A	-121.2	-74.0
15	**James Doolittle Boulevard & Hotel Center Drive (Unsignalized)**													
	Eastbound	LR	A	0.0	0	183	LR	A	0.0	0	183	No	0.0	0.0
16	**James Doolittle Boulevard & Hotel South Drive (Unsignalized)**													
	Eastbound	LR	F	2288.2	349	270	LR	A	3.4	42	270	F → A	-2284.8	-307.0
17	**Hempstead Turnpike & New South Site Access Drive**													
	Eastbound	Intersection Does Not Exist					L	C	21.6	187	225			
							T	B	10.2	44	992			
							Approach	A	8.4					
	Westbound						T	C	20.3	255	798			
							R	A	5.8	170	300			
							Approach	B	11.4					
	Southbound						R	C	23.6	73	326			
							Approach	C	22.4					
							Int.	**B**	**10.1**					

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service
For unsignalized intersections, results are only reported for the controlled movements.

PARKING GENERATION AND SHARED PARKING ANALYSIS

A parking demand analysis was developed for the Proposed NEC Project using both existing zoning requirements as described in the Town of Hempstead Building Zone Ordinance and a shared parking analysis, based on parking ratios from the Urban Land Institute (ULI) *Shared Parking, 2nd Edition*. As in the trip generation, for the shared parking analysis a 5 percent transit mode (drive ratio) credit was applied to all land uses (except for the Coliseum), and a 25 percent linked trips (non-captive ratio) credit was applied to the retail and restaurant land uses.

For a maximum capacity, 13,000-person event at the arena, overall peak parking demand for the Proposed NEC Project in the shared parking analysis for a typical weekday and weekend is projected to be 5,022 and 5,205 spaces, respectively. However, events with 13,000 attendees are expected to happen rarely, with a typical large event expected to draw approximately 10,000 attendees. During a typical weekday and weekend with a 10,000-person event at the arena, the peak parking demand in the shared parking analysis is projected to be 4,205 and 4,307 spaces, respectively.

The total number of parking spaces that would be provided on the redeveloped site is 5,668; therefore, the site would be able to accommodate the peak projected demand of the Proposed NEC Project during both a typical large Coliseum event and with a full-capacity event. A summary of the parking generation results is presented in **Table F-16** and **Table F-17**.

Table F-16
Comparison of Shared Parking Demand and Zoning Requirements

Land Use	Size	Town of Hempstead Requirements[1]		ULI Shared Parking[2]			
				Weekday Base Parking Ratio		Weekend Base Parking Ratio	
		Ratio	Spaces	Ratio[1]	Spaces	Ratio[1]	Spaces
Arena							
Visitor	13,000 Seats	1/3 Seats	4,333	0.27/Seats	3,510	0.30/Seats	3,900
Employee				0.03/Seats	390	0.03/Seats	390
Retail							
Visitor	170,000 SF	1/200 SF	850	2.90/KSF	493	3.20/KSF	544
Employee				0.70/KSF	119	0.80/KSF	136
Restaurant	38,000 SF	1/3 Seats and 1/4 Employees	496				
Visitor	1,400 Seats			15.25/KSF	580	17.00/KSF	646
Employee	116 Emploees			2.75/KSF	105	3.00/KSF	114
Cinema							
Visitor	1,500 Seats	1/3 Seats	500	0.19/Seats	285	0.26/Seats	390
Employee				0.01/Seats	15	0.01/Seats	15
Recreation							
Visitor	120,000 SF	1/200 SF	600	6.60/KSF	792	5.50/KSF	660
Employee				0.40/KSF	48	0.25/KSF	30
		Total	**6,779**		**6,336**		**6,825**

Notes:

1. Derived from Town of Hempstead, NY Building Zone Ordinance: § 319 Accessory parking. <http://ecode360.com/14497515 >
2. Sources for ULI Shared Parking:

Arena	Base Parking Ratio and Time-of-Day Factors derived using Arena land use from Urban Land Institute *Shared Parking* , 2nd Edition (2005), Tables 2-2, 2-5 and 2-6.
Retail	Base Parking Ratio and Time-of-Day Factors derived using Community Shopping Center (<400,000 sq. ft.) land use from Urban Land Institute *Shared Parking* , 2nd Edition (2005), Tables 2-1, 2-5 and 2-6.
Restaurant	Base Parking Ratio and Time-of-Day Factors derived using Fine/Casual Dining land use from Urban Land Institute *Shared Parking* , 2nd Edition (2005), Tables 2-2, 2-5 and 2-6.
Cinema	Base Parking Ratio and Time-of-Day Factors derived using Cineplex land use from Urban Land Institute *Shared Parking* , 2nd Edition (2005), Tables 2-2, 2-5 and 2-6.
Recreation	Base Parking Ratio and Time-of-Day Factors derived using Health Club land use from Urban Land Institute *Shared Parking* , 2nd Edition (2005), Tables 2-2, 2-5 and 2-6.

Table F-17
Detailed Shared Parking Analysis – Weekday & Weekend

Weekday Shared Parking Analysis

Land Use	Unit[4]	Size	Unadjusted Demand	Monthly Adjustment (December)	Time of Day Adjustment (8:00 pm)	Non-Captive Ratio	Drive Ratio Daytime	Demand (December 8:00 pm)
Arena								
Visitor	0.27/Seats	13,000 Seats	3,510	95%	100%	100%	95%	3,168
Employee	0.03/Seats		390	100%	100%	100%	95%	371
Retail								
Visitor	2.90/KSF	170,000 SF	493	100%	80%	75%	95%	282
Employee	0.70/KSF		119	100%	90%	75%	95%	77
Restaurant								
Visitor	15.25/KSF	38,000 SF	580	100%	100%	75%	95%	413
Employee	2.75/KSF		105	100%	100%	75%	95%	75
Cinema								
Visitor	0.19/Seats	1,500 Seats	285	23%	100%	100%	95%	63
Employee	0.01/Seats		15	50%	100%	100%	95%	8
Recreation								
Visitor	6.60/KSF	120,000 SF	792	90%	80%	100%	95%	542
Employee	0.40/KSF		48	100%	50%	100%	95%	23
		Total	**6,336**					**5,022**

Weekend Shared Parking Analysis

Land Use	Unit[4]	Size	Unadjusted Demand	Monthly Adjustment (December)	Time of Day Adjustment (8:00 pm)	Non-Captive Ratio	Drive Ratio Daytime	Demand (December 8:00 pm)
Arena								
Visitor	0.30/Seats	13,000 Seats	3,900	95%	100%	100%	95%	3,520
Employee	0.03/Seats		390	100%	100%	100%	95%	371
Retail								
Visitor	3.20/KSF	170,000 SF	544	100%	65%	75%	95%	252
Employee	0.80/KSF		136	100%	75%	75%	95%	73
Restaurant								
Visitor	17.00/KSF	38,000 SF	646	100%	100%	75%	95%	461
Employee	3.00/KSF		114	100%	100%	75%	95%	82
Cinema								
Visitor	0.26/Seats	1,500 Seats	390	67%	100%	100%	95%	249
Employee	0.01/Seats		15	80%	100%	100%	95%	12
Recreation								
Visitor	5.50/KSF	120,000 SF	660	90%	30%	100%	95%	170
Employee	0.25/KSF		30	100%	50%	100%	95%	15
		Total	**6,825**					**5,205**

Notes:

1. Monthly adjustment factors from Urban Land Institute Shared Parking, 2nd Edition (2005), Tables 2-3 and 2-4 for December.
2. Time of day adjustment factors from Urban Land Institute Shared Parking, 2nd Edition (2005), Tables 2-5 and 2-6 at 8 pm.
3. Drive Ratio Daytime from the Lighthouse at Long Island FGEIS (October 2010) Appendix E-1.
4. Sources:

Arena	Base Parking Ratio and Time-of-Day Factors derived using Arena land use from Urban Land Institute *Shared Parking* , 2nd Edition (2005), Tables 2-2, 2-5 and 2-6.
Retail	Base Parking Ratio and Time-of-Day Factors derived using Community Shopping Center (<400,000 sq. ft.) land use from Urban Land Institute *Shared Parking* , 2nd Edition (2005), Tables 2-1, 2-5 and 2-6.
Restaurant	Base Parking Ratio and Time-of-Day Factors derived using Fine/Casual Dining land use from Urban Land Institute *Shared Parking* , 2nd Edition (2005), Tables 2-2, 2-5 and 2-6.
Cinema	Base Parking Ratio and Time-of-Day Factors derived using Cineplex land use from Urban Land Institute *Shared Parking* , 2nd Edition (2005), Tables 2-2, 2-5 and 2-6.
Recreation	Base Parking Ratio and Time-of-Day Factors derived using Health Club land use from Urban Land Institute *Shared Parking* , 2nd Edition (2005), Tables 2-2, 2-5 and 2-6.

PARKING OPERATIONS

A total of 5,668 parking spaces would be provided on the redeveloped site of the Proposed NEC Project. The project includes modifications to the existing parking lot in order to accommodate the new mixed-use development and revised internal roadway network. New internal roadways would facilitate the circulation of vehicles within the project site. Since parking for Coliseum visitors is anticipated to be pre-paid as a part of an event ticket, the new roadways and removal of payment booths at the site access points would alleviate queuing that currently occurs for entering vehicles during the pre-event periods.

During non-event times, the new north/south roadway and two east/west roadways would allow vehicles entering the site from any access point to easily reach a parking area adjacent to their specific destination. These new roadways would also allow for traffic traveling between Hempstead Turnpike, Charles Lindbergh Boulevard, and Earle Ovington Boulevard to circulate through the site.

During Coliseum events, the parking lot would be managed by staff to accommodate arena visitors while maintaining space for the other uses on the site. Areas of the parking lot would be designated as retail parking that could be controlled by temporary payment booths and on-site staff to prevent event parkers from utilizing them.

To prevent Coliseum visitors from using spaces reserved for other site uses, a ticketing system would be established. Clear signage would notify drivers entering certain sections of the parking lot if it is reserved for a non-arena use and when a driver enters they would receive a parking ticket to be used when exiting the lot. The driver would have the ticket validated when visiting one of the non-arena uses and would have to present the validated ticket when exiting the parking lot to avoid a parking fee. Drivers without a validated ticket would be forced to pay a high parking fee to be allowed to exit. This system would be described clearly to customers when visiting the Coliseum website and with on-site signage. Similar systems are in place at other large event venues that share parking with adjacent retail uses. ✷

A. INTRODUCTION

This attachment summarizes the Proposed NEC Project's construction plans and assesses the potential impacts related to construction including hazardous materials, traffic and parking, noise and vibration, and air quality. The proposed project is substantially smaller in area and scale compared with the development scenario that was analyzed under the MFM District Alternative in the FGEIS for the Lighthouse at Long Island (see Table A-2 in Attachment A). The smaller land area of the proposed project site, lower density, and smaller-scale development would reduce the impacts associated with construction compared with the MFM District Alternative, including hazardous materials, traffic and parking, noise and vibration, and air quality.

B. DRAFT CONSTRUCTION MANAGEMENT PLAN

CONSTRUCTION SCHEDULE, PHASING, AND ACTIVITIES

The Proposed NEC Project would be constructed in a single phase (from approximately summer 2015 to the first quarter 2017), and is anticipated to last for a period of approximately 18 months. The construction period for the Coliseum would last approximately 15 months (from summer 2015 to fourth quarter 2016) and the construction period for the retail/entertainment component would last approximately 18 months (from summer 2015 to first quarter 2017).[1] The construction periods for the Coliseum and the retail/entertainment component would overlap for approximately 15 months. No part of the project site would be available for public access during the construction period.

The Coliseum construction activities would include installation of structural steel (i.e. the steel required to support the new Coliseum façade) and new façade elements on the exterior of the Coliseum, as well as interior renovation of the main concourse, event level, ticket office, entry lobby, and bowl, which would involve, among other things, work on the mechanical, electrical, and plumbing (MEP) systems; new flooring, walls, and ceiling; removal/replacement of seats; and other bowl modifications.

The components of the retail/entertainment construction are contemplated to include a movie theater, large and small restaurants, retail space, recreational facilities, a pedestrian plaza, and a grass area with a prominent memorial. With the exception of the pedestrian plaza, grass area, and memorial, each of the retail/entertainment components would proceed in the following construction stages, some of which would overlap: excavation and foundations, superstructure,

[1] As required by the lease, construction would start with the Coliseum improvements and approximately 188,000 sf of the proposed cinema, retail, restaurant, and recreation use. The start of construction of the remaining approximately 200,000 sf of retail and recreation use would be staggered, with the entire NEC Project complete and operational in 2017.

exterior shell, interior fit out, and site work. Portions of the existing surface parking area would first be demolished within the building footprints followed by soil excavation and any required remediation thereof, and the construction of the foundations. When the below-grade construction is completed, superstructure construction (the building's beams, columns, and floor decks) would begin. Next, the exterior façade and the roof of the structure would be placed and interior fit-out would commence. The interior fit-out would include the construction of non-structural building elements such as interior partitions and interior finishes (i.e., flooring, painting, etc.) and of all mechanical systems (HVAC, Electrical, Plumbing, Sprinkler, and Fire Alarm). Once the interior fit-out task is substantially completed, site work would begin. The site work task would include the installation of landscaped areas, ground surfaces, and sidewalks, and the repaving of any roads or parking lots as necessary. The pedestrian plaza and the open lawn would only require the excavation and site work construction stages.

During the construction period, there would be employee parking, trailers, and laydown/staging areas on a portion of the existing asphalt parking lots surrounding the Coliseum. Public parking would not be available. Typical construction fencing would be installed along the northern, southern, and eastern sides of the proposed buildings. A worker entrance/egress to the proposed project site and a truck entrance/egress for the Coliseum component is anticipated to be provided from Earle Ovington Boulevard, and a truck entrance/egress for the retail/entertainment component is proposed from Hempstead Turnpike at Glenn Curtiss Boulevard (see **Figure G-1**).

It is anticipated that construction would take place between the hours of 7 AM and 6 PM on weekdays, in accordance with Town of Hempstead regulations. Construction work would typically begin at 7 AM on weekdays, with most workers arriving between 6 AM and 7 AM. Normally, weekday work would end by 3:30 PM.

GRADING AND EROSION SEDIMENT CONTROL AND WATER QUALITY

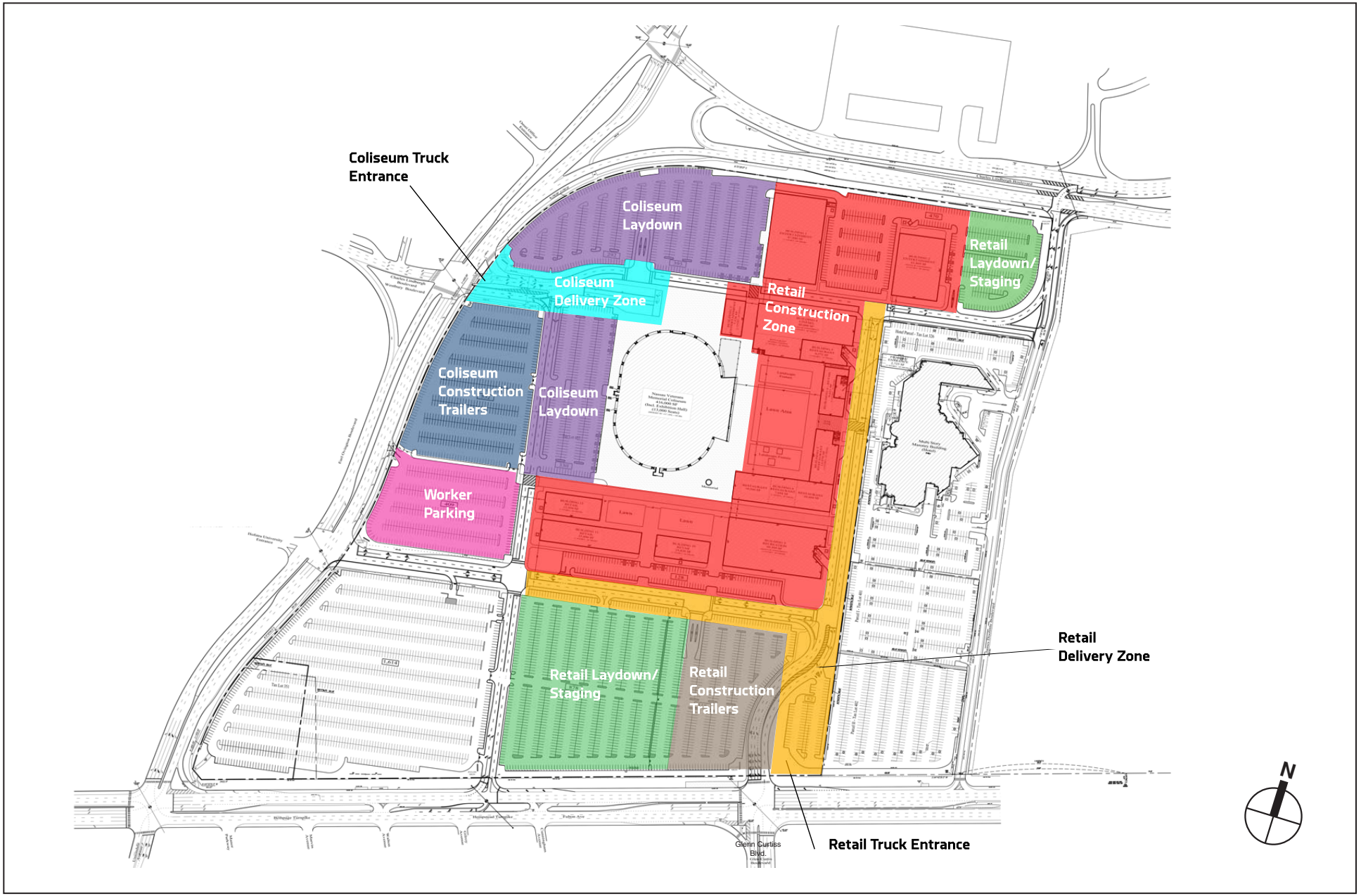
Contractors would implement typical dust mitigation measures such as water trucks and covering of storage piles, which would limit dust emissions. Stormwater mitigation measures, as described in Attachment D, "Stormwater Management," would also contribute to dust reduction and avoid any adverse impacts to water quality. For instance, perimeter erosion control measures may include silt fencing, hay bales, and the maintenance of construction entrances to prevent sediment from being transported off-site. Various types of inlet protection would be used to protect on-site drainage inlets and stockpiling and clearing would be controlled to minimize the erosion potential of the site. Moreover, proper maintenance of the recharge structures would be employed to ensure that the system operates correctly and would prevent any discharge to surface waters.

EXCAVATION AND FILL MATERIALS AND QUANTITIES

Approximately 16,742 cubic yards (25,113 tons) of material (including earth, sediments, etc.) are expected to be removed from the site during the excavation periods (from summer 2015 to first quarter 2016 and from early fourth quarter 2016 to late fourth quarter 2016).

HAZARDOUS MATERIALS HANDLING AND PUBLIC SAFETY

See Attachment B, "Geology, Subsurface Conditions, Soils and Topography." As explained in Attachment B, a Construction Health and Safety Plan (CHASP) will be prepared prior to renovation, to address known and potential concerns (e.g., unexpected petroleum storage tanks or petroleum-contaminated soil). The CHASP will include measures for worker and community



FOR ILLUSTRATIVE PURPOSES ONLY

Preliminary Site Logistics Plan

NASSAU EVENTS CENTER PROJECT

Figure G-1

protection, including personal protective equipment, dust control, air monitoring (including a Community Air Monitoring Plan), and emergency response procedures.

CONSTRUCTION TRAFFIC AND PARKING AND EMERGENCY ACCESS

As mentioned above, during the construction period, there would be employee parking, trailers, and laydown/staging areas on a portion of the asphalt parking lots surrounding the Coliseum. Public parking would not be available. Worker and truck entrances/egresses and emergency access to the proposed project site are anticipated to be provided from Earle Ovington Boulevard. Construction workers would arrive and depart during off-peak hours (generally 6 AM to 7 AM and 3 PM to 4 PM, respectively). Construction vehicle trips would be temporary, as they will cease upon completion of construction.

Construction workers traveling by private automobile would enter the proposed project site through designated access points and park within designated parking areas surrounding the Coliseum. Parking of construction vehicles or construction workers' personal vehicles would not be permitted outside the boundaries of the proposed project site. The smaller land area of the proposed project site, lower density, and smaller-scale development would reduce the impacts associated with construction, including those related to traffic and parking, compared with the MFM District Alternative.

The primary through route for construction deliveries and soil removal would be the Long Island Expressway (LIE). Trucks approaching the site would take LIE exit 41S and make a right turn onto New York State Route 107 (North Broadway) South for approximately 0.8 miles, then a slight right onto New York State Route 106 (Newbridge Road) for approximately 3.5 miles, then a right onto New York State Route 24 West (West Hempstead Bethpage Turnpike) for approximately 2.6 miles to the site entrance at Glenn Curtiss Boulevard. The proposed project is expected to average 25-30 truck trips per day over the course of the construction period with a peak of 50-60 truck trips per day.

NOISE AND VIBRATION

The construction activities associated with the proposed project would likely cause temporary noise that would affect local noise levels during construction. These effects primarily result from the operation of equipment and truck traffic associated with the labor force and delivery and removal of supplies and materials. Blasting and pile drive would not occur. Noise from construction activities is regulated by the Code of the Town of Hempstead. The Town's noise regulations would be followed to ensure that noise created during construction would be minimized.

The primary source of vibration from the proposed project would be expected to be short-term construction operations that include large construction vehicles.

The impacts of noise and vibration during construction of the proposed project would be similar to that analyzed for the MFM District Alternative in the GEIS, except for the shorter construction duration due to the smaller area of the proposed project site and the smaller scale of the proposed development.

AIR QUALITY

The construction activities associated with the proposed project would result in air pollutant emissions that would affect air quality levels. These effects would primarily result from the

operation of diesel equipment and fugitive dust emissions. Traffic associated with the labor force and supplies/materials could also affect local air quality. As with the MFM District Alternative, to ensure that air quality effects during construction would be minimized, appropriate fugitive dust control measures would be implemented, including water trucks and covering of storage piles.

As with the MFM District Alternative, impacts to air quality from the proposed construction activities would be expected to be short-term and relatively minor.

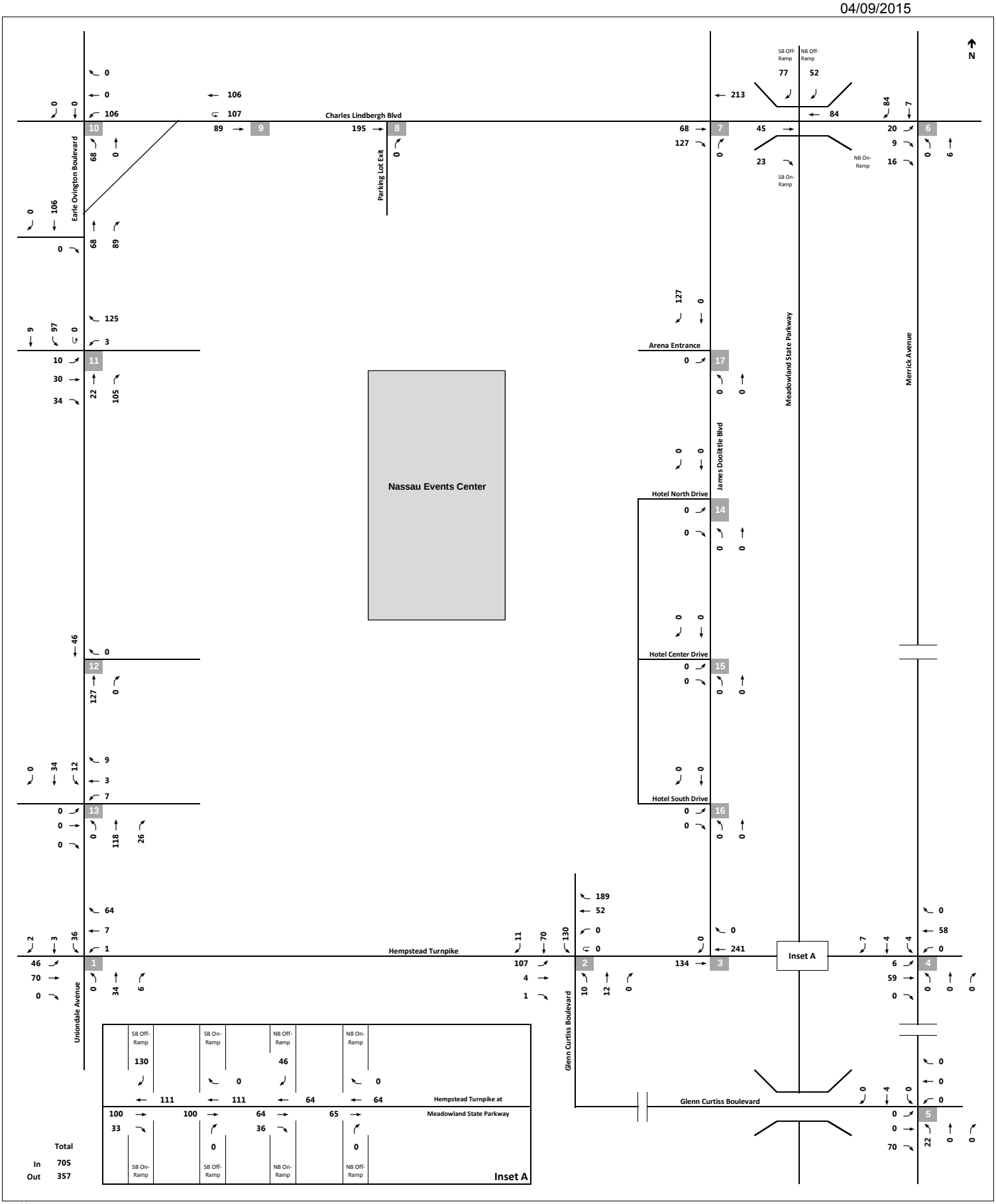
C. CONCLUSION

The draft construction management plan presented in this attachment is consistent with the findings of the FGEIS for the Lighthouse at Long Island with respect to reduction or elimination of construction impacts. In accordance with the FGEIS (page 71), the draft construction management plan addresses potential temporary impacts related to construction, including hazardous materials, traffic and parking, noise and vibration, and air quality. The proposed project is substantially smaller in area and scale compared with the development scenario that was analyzed under the MFM District Alternative (see Table A-2 in Attachment A). Therefore, no significant adverse construction impacts are anticipated, and the proposed project is consistent with the previous FGEIS conclusions regarding construction. í

APPENDIX

Appendix Figures

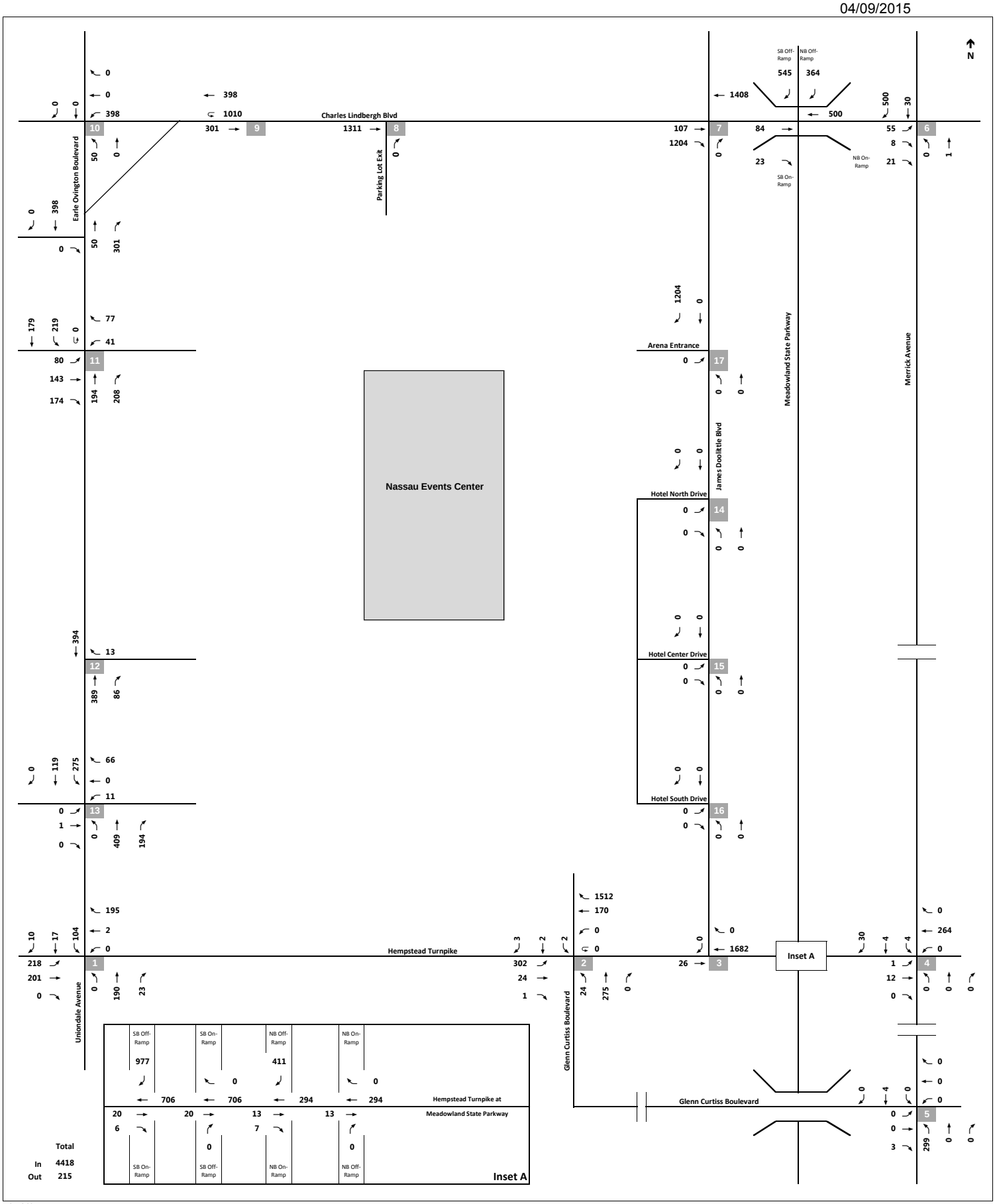
Figure #	Title	Peak Hour	Description
Figure 1	Existing Arena Traffic Volumes (17,700 Seats)	Weekday Afternoon Peak Hour	
Figure 2	Existing Arena Traffic Volumes (17,700 Seats)	Weekday Pre-Event Peak Hour	Based on 2013 Existing Arena Traffic Volumes
Figure 3	Existing Arena Traffic Volumes (17,700 Seats)	Saturday Midday Peak Hour	
Figure 4	No Build Background Growth Traffic Volumes	Weekday Afternoon Peak Hour	
Figure 5	No Build Background Growth Traffic Volumes	Weekday Pre-Event Peak Hour	
Figure 6	No Build Background Growth Traffic Volumes	Saturday Midday Peak Hour	
Figure 7	No Build Project Traffic Volumes - Roosevelt Field Mall Expansion	Weekday Afternoon Peak Hour	
Figure 8	No Build Project Traffic Volumes - Roosevelt Field Mall Expansion	Weekday Pre-Event Peak Hour	
Figure 9	No Build Project Traffic Volumes - Roosevelt Field Mall Expansion	Saturday Midday Peak Hour	
Figure 10	No Build Project Traffic Volumes - Courtyard by Marriott	Weekday Afternoon Peak Hour	
Figure 11	No Build Project Traffic Volumes - Courtyard by Marriott	Weekday Pre-Event Peak Hour	
Figure 12	No Build Project Traffic Volumes - Courtyard by Marriott	Saturday Midday Peak Hour	
Figure 13	No Build Project Traffic Volumes - Hofstra North Shore - LIJ School of Medicine Expansion	Weekday Afternoon Peak Hour	
Figure 14	No Build Project Traffic Volumes - Hofstra North Shore - LIJ School of Medicine Expansion	Weekday Pre-Event Peak Hour	
Figure 15	No Build Project Traffic Volumes - Hofstra North Shore - LIJ School of Medicine Expansion	Saturday Midday Peak Hour	
Figure 16	No Build Project Traffic Volumes	Weekday Afternoon Peak Hour	
Figure 17	No Build Project Traffic Volumes	Weekday Pre-Event Peak Hour	
Figure 18	No Build Project Traffic Volumes	Saturday Midday Peak Hour	
Figure 19	Non-Arena Inbound Trip Distribution	Weekday Afternoon Peak Hour	
Figure 20	Non-Arena Outbound Trip Distribution	Weekday Afternoon Peak Hour	
Figure 21	Non-Arena Inbound Trip Distribution	Weekday Pre-Event Peak Hour	
Figure 22	Non-Arena Outbound Trip Distribution	Weekday Pre-Event Peak Hour	
Figure 23	Non-Arena Inbound Trip Distribution	Saturday Midday Peak Hour	
Figure 24	Non-Arena Outbound Trip Distribution	Saturday Midday Peak Hour	
Figure 25	Future Arena Traffic Volumes without Diversion (13,000 Seats)	Weekday Afternoon Peak Hour	
Figure 26	Future Arena Traffic Volumes without Diversion (13,000 Seats)	Weekday Pre-Event Peak Hour	Based on 2013 Existing Arena Traffic Volumes
Figure 27	Future Arena Traffic Volumes without Diversion (13,000 Seats)	Saturday Midday Peak Hour	
Figure 28	Future Arena Traffic Volumes Diversion Only (13,000 Seats)	Weekday Afternoon Peak Hour	Diversion of Arena Volumes to account for new and modified driveways
Figure 29	Future Arena Traffic Volumes Diversion Only (13,000 Seats)	Weekday Pre-Event Peak Hour	
Figure 30	Future Arena Traffic Volumes Diversion Only (13,000 Seats)	Saturday Midday Peak Hour	
Figure 31	Future Arena Traffic Volumes (13,000 Seats)	Weekday Afternoon Peak Hour	Figure 21 + Figure 24
Figure 32	Future Arena Traffic Volumes (13,000 Seats)	Weekday Pre-Event Peak Hour	Figure 22 + Figure 25
Figure 33	Future Arena Traffic Volumes (13,000 Seats)	Saturday Midday Peak Hour	Figure 23 + Figure 26
Figure 34	Non-Arena Traffic Increment	Weekday Afternoon Peak Hour	Based on Non-Arena Trip Distribution from Figure 19/Figure 20 and respective Non-Arena Traffic Volumes
Figure 35	Non-Arena Traffic Increment	Weekday Pre-Event Peak Hour	
Figure 36	Non-Arena Traffic Increment	Saturday Midday Peak Hour	
Figure 37	Charles Lindbergh Boulevard (EB and WB)	Weekday Hourly Volumes	
Figure 38	Earle Ovington Boulevard (NB and SB)	Weekday Hourly Volumes	
Figure 39	James Doolittle Boulevard (NB and SB)	Weekday Hourly Volumes	
Figure 40	Hempstead Turnpike (EB and WB)	Weekday Hourly Volumes	
Figure 41	Charles Lindbergh Boulevard (EB and WB)	Saturday Hourly Volumes	
Figure 42	Earle Ovington Boulevard (NB and SB)	Saturday Hourly Volumes	
Figure 43	James Doolittle Boulevard (NB and SB)	Saturday Hourly Volumes	
Figure 44	Hempstead Turnpike (EB and WB)	Saturday Hourly Volumes	



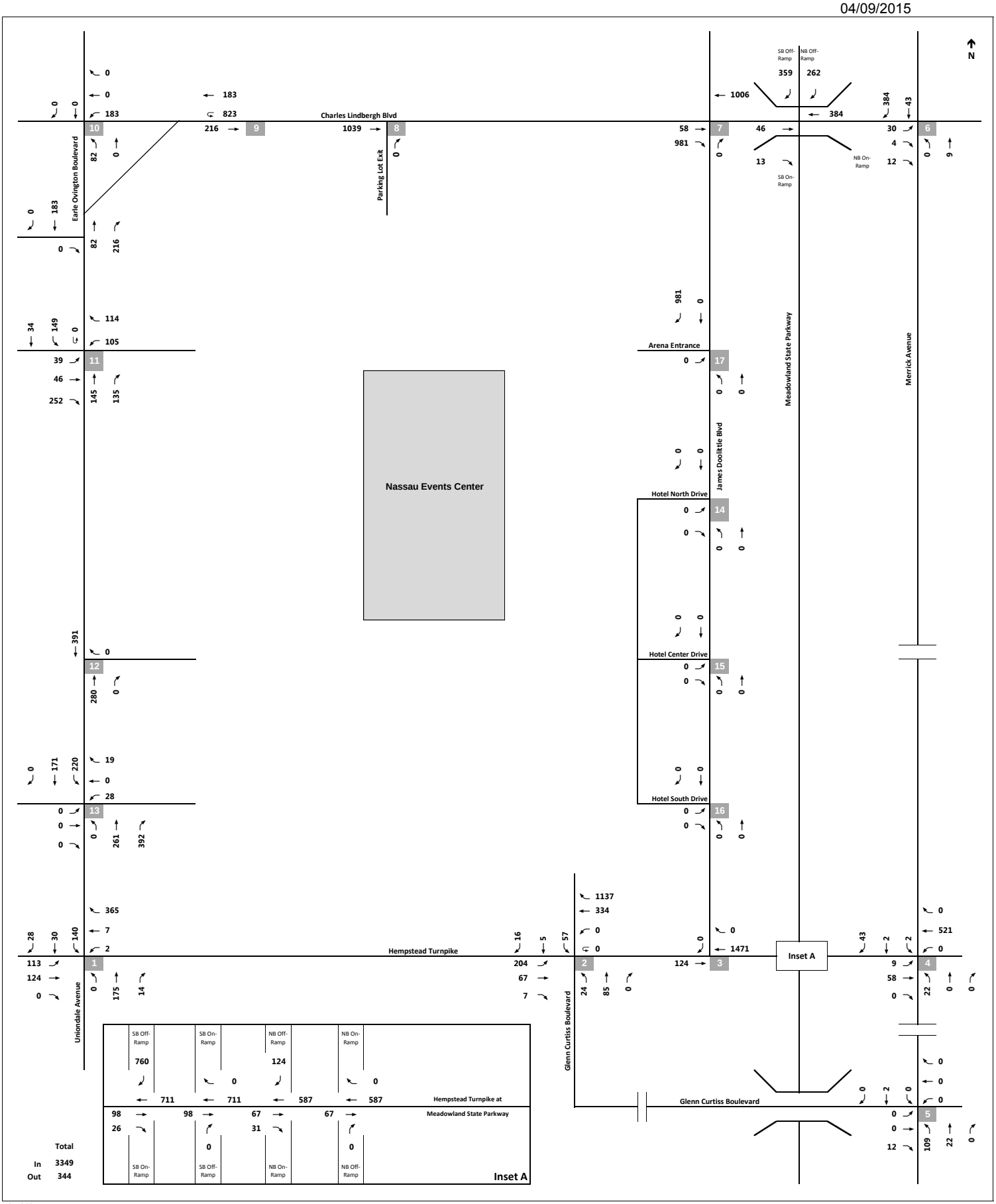
NOT TO SCALE

Existing Arena Traffic Volumes (17,700 Seats)
Weekday Afternoon Peak Hour

Figure 1



Existing Arena Traffic Volumes (17,700 Seats)
Weekday Pre-Event Peak Hour
Figure 2



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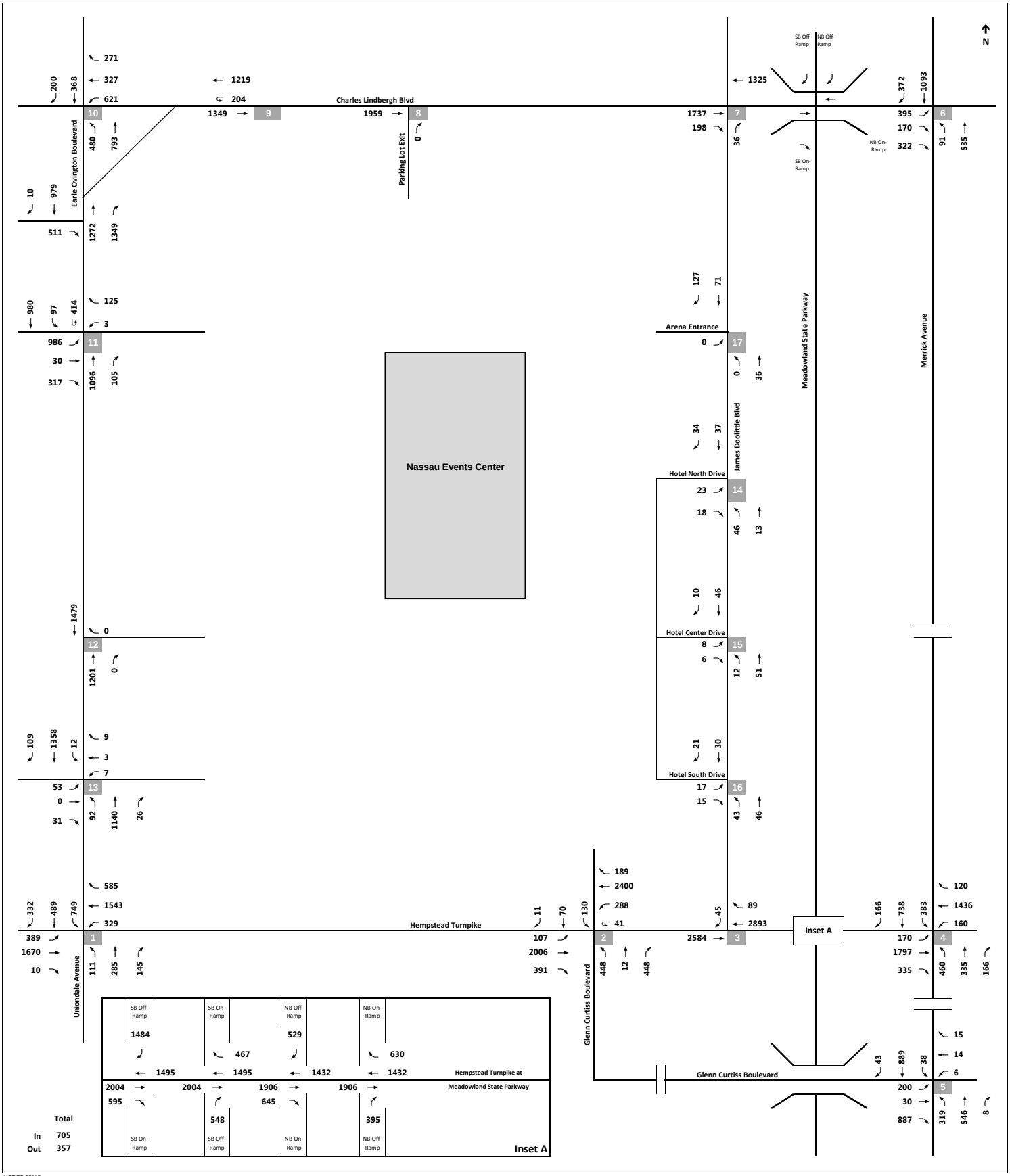
Existing Arena Traffic Volumes (17,700 Seats)
Saturday Midday Peak Hour
Figure 3



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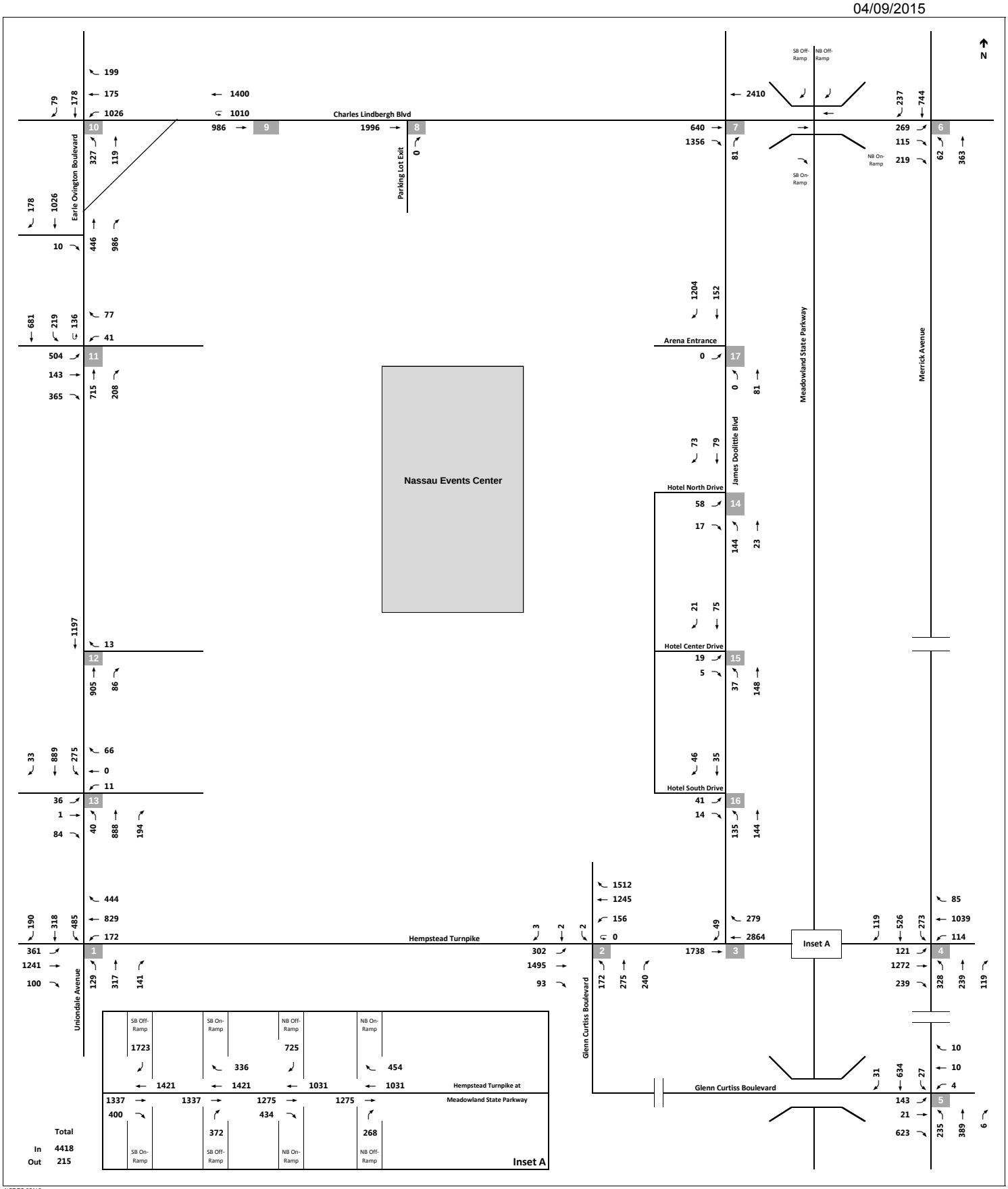
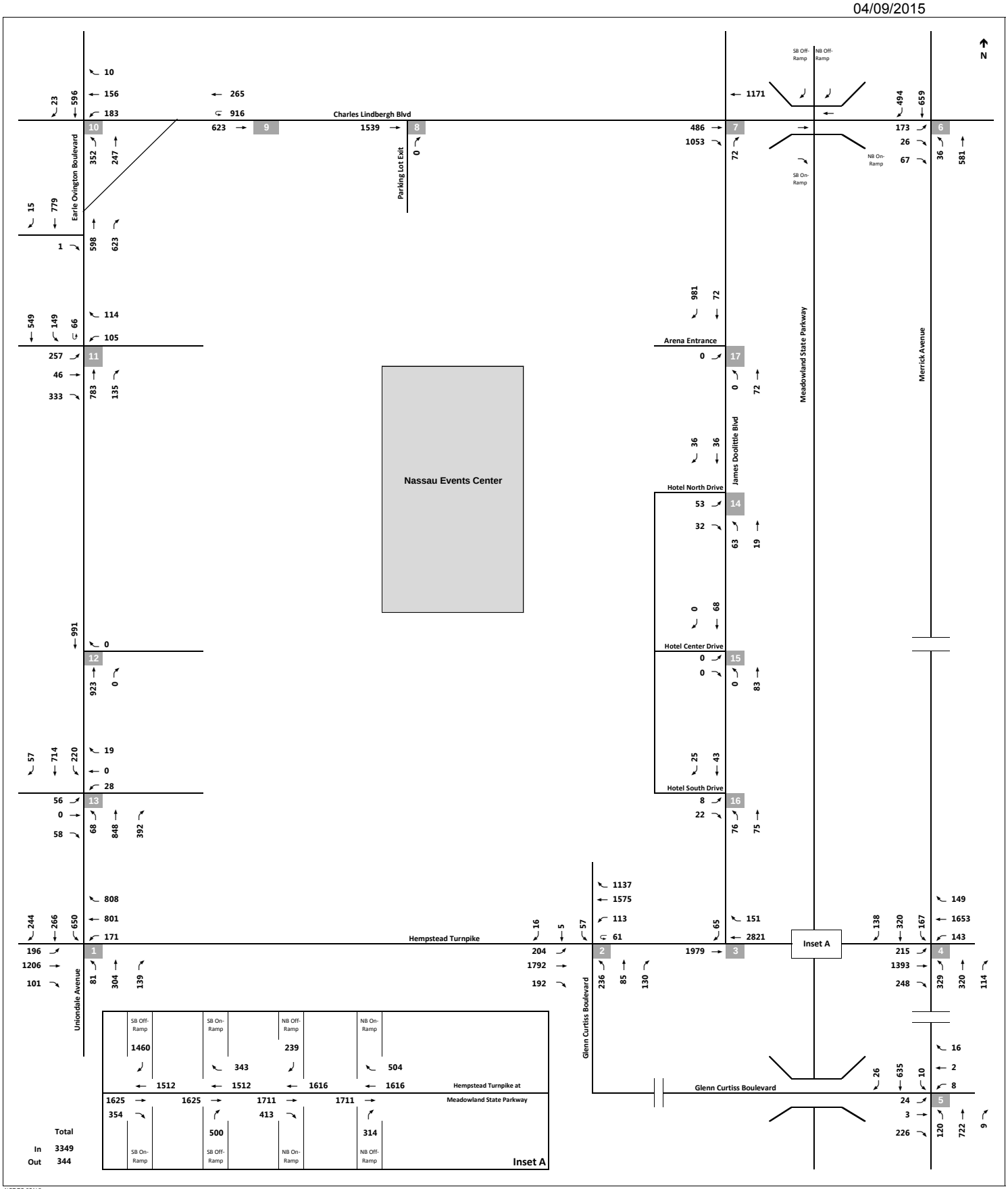
No Build Background Growth Traffic Volumes
Weekday Afternoon Peak Hour

Figure 4

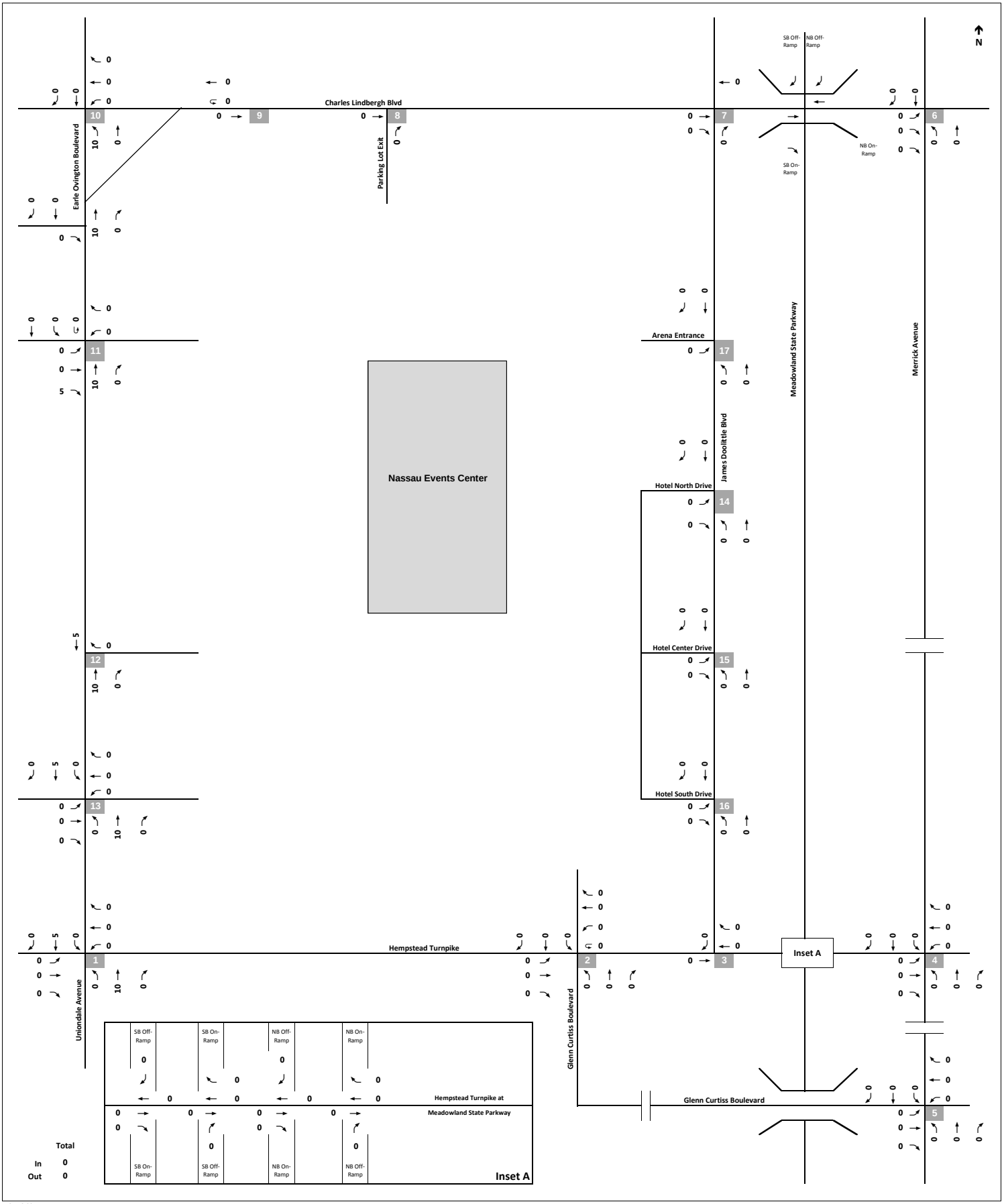


No Build Background Growth Traffic Volumes
Weekday Pre-Event Peak Hour

Figure 5



No Build Background Growth Traffic Volumes
Saturday Midday Peak Hour
Figure 6



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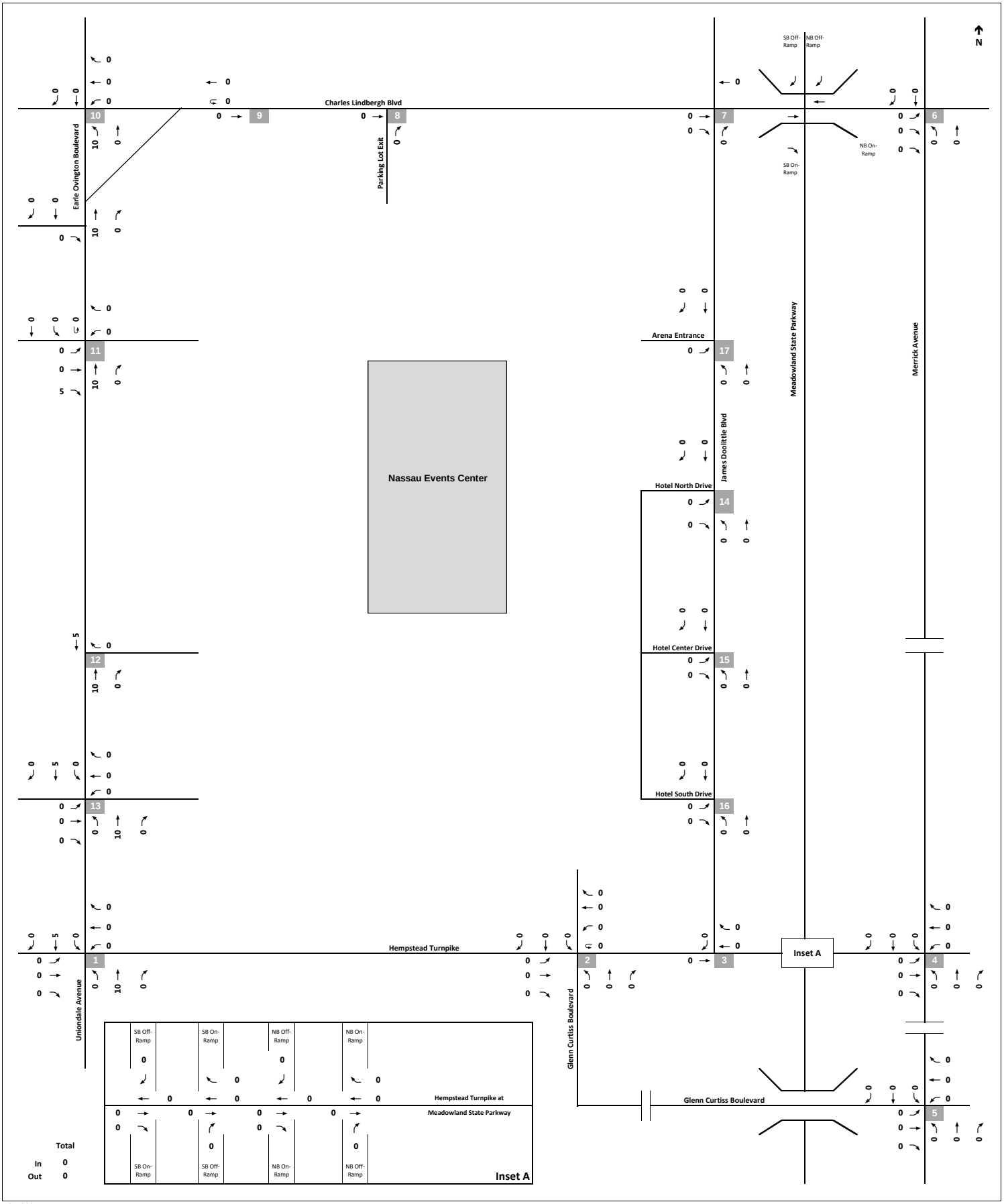
No Build Project Traffic Volumes - Roosevelt Field Mall Expansion
Weekday Afternoon Peak Hour
Figure 7



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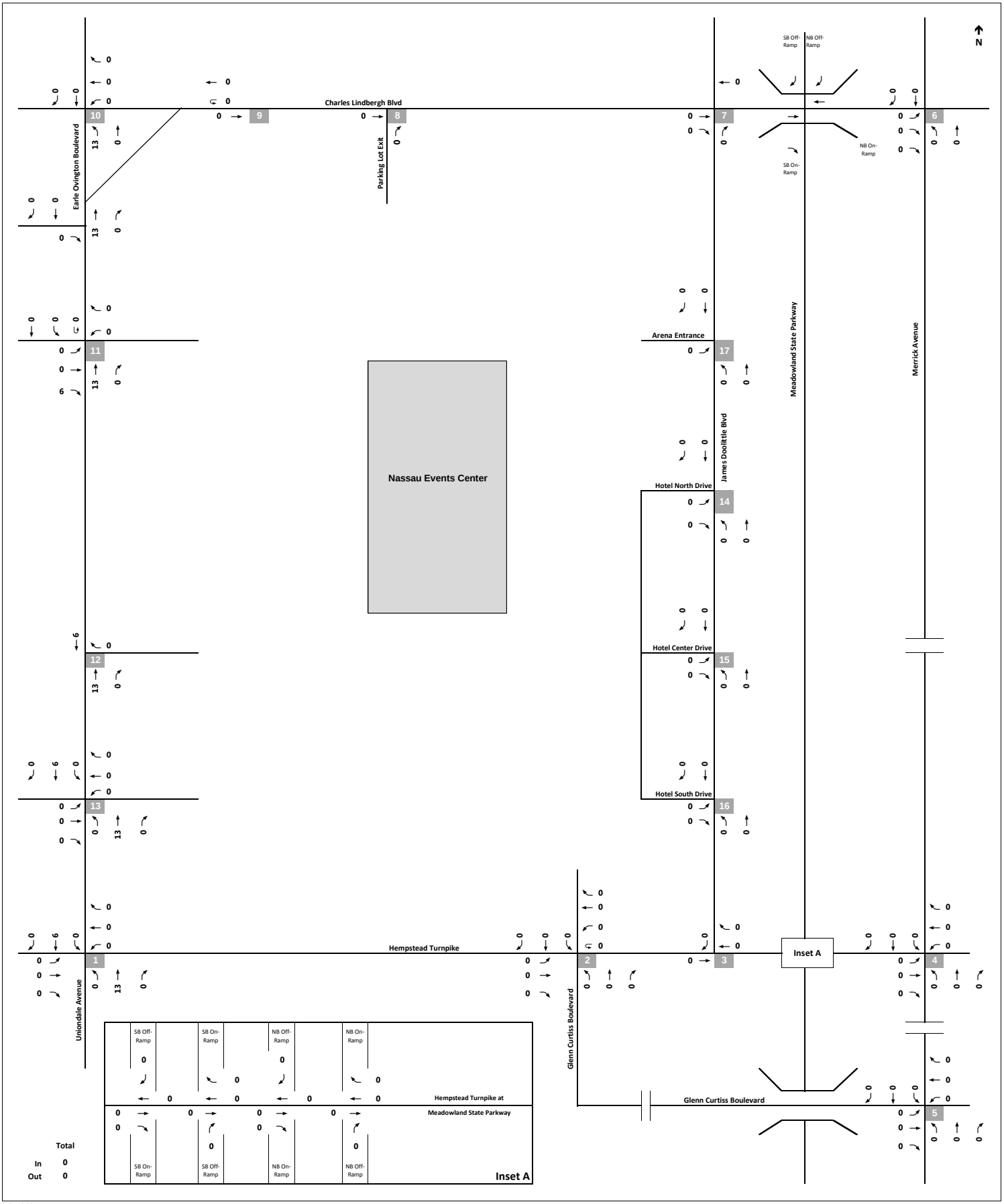
No Build Project Traffic Volumes - Roosevelt Field Mall Expansion
Weekday Pre-Event Peak Hour
Figure 8



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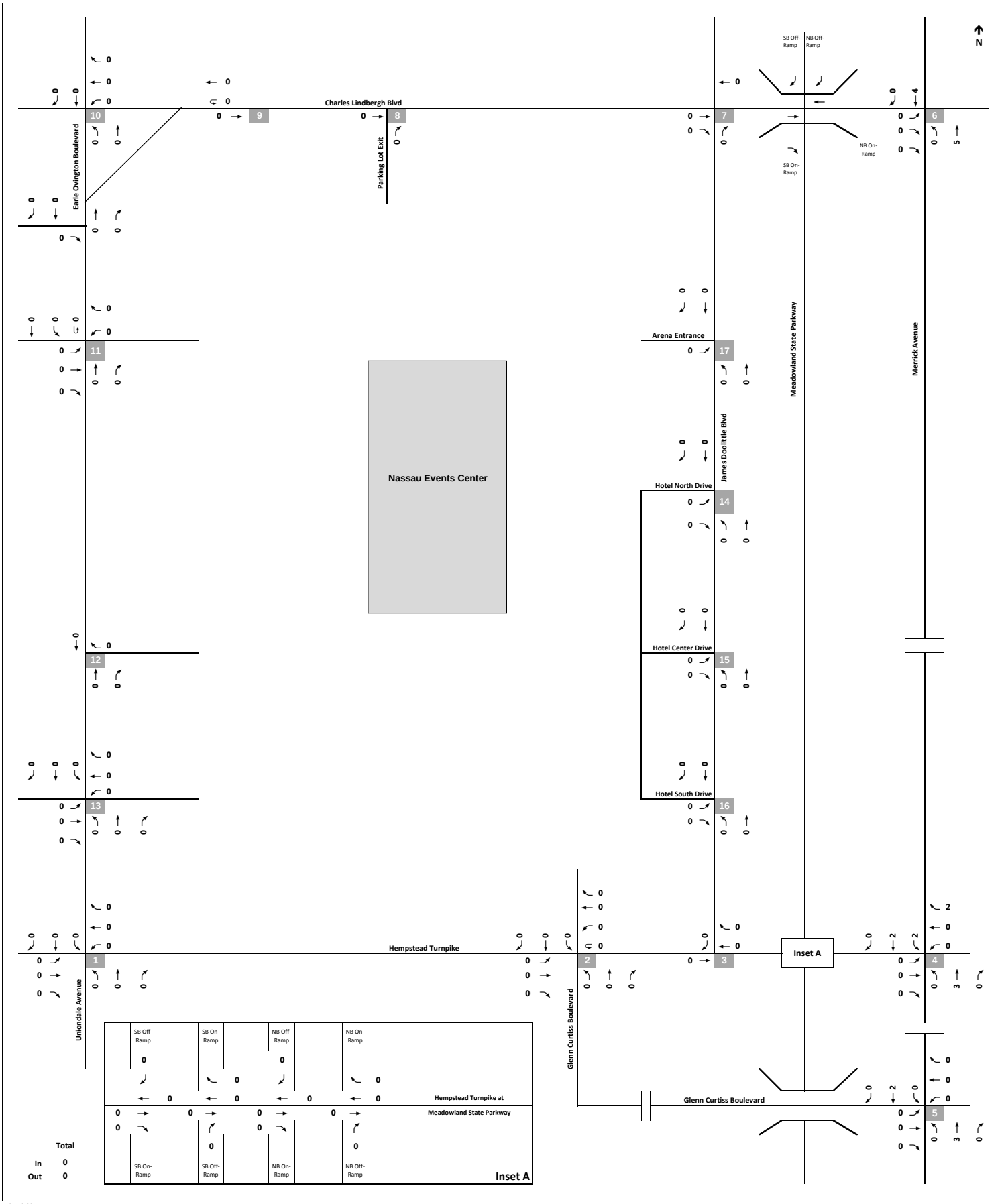
No Build Project Traffic Volumes - Roosevelt Field Mall Expansion
Saturday Midday Peak Hour
Figure 9



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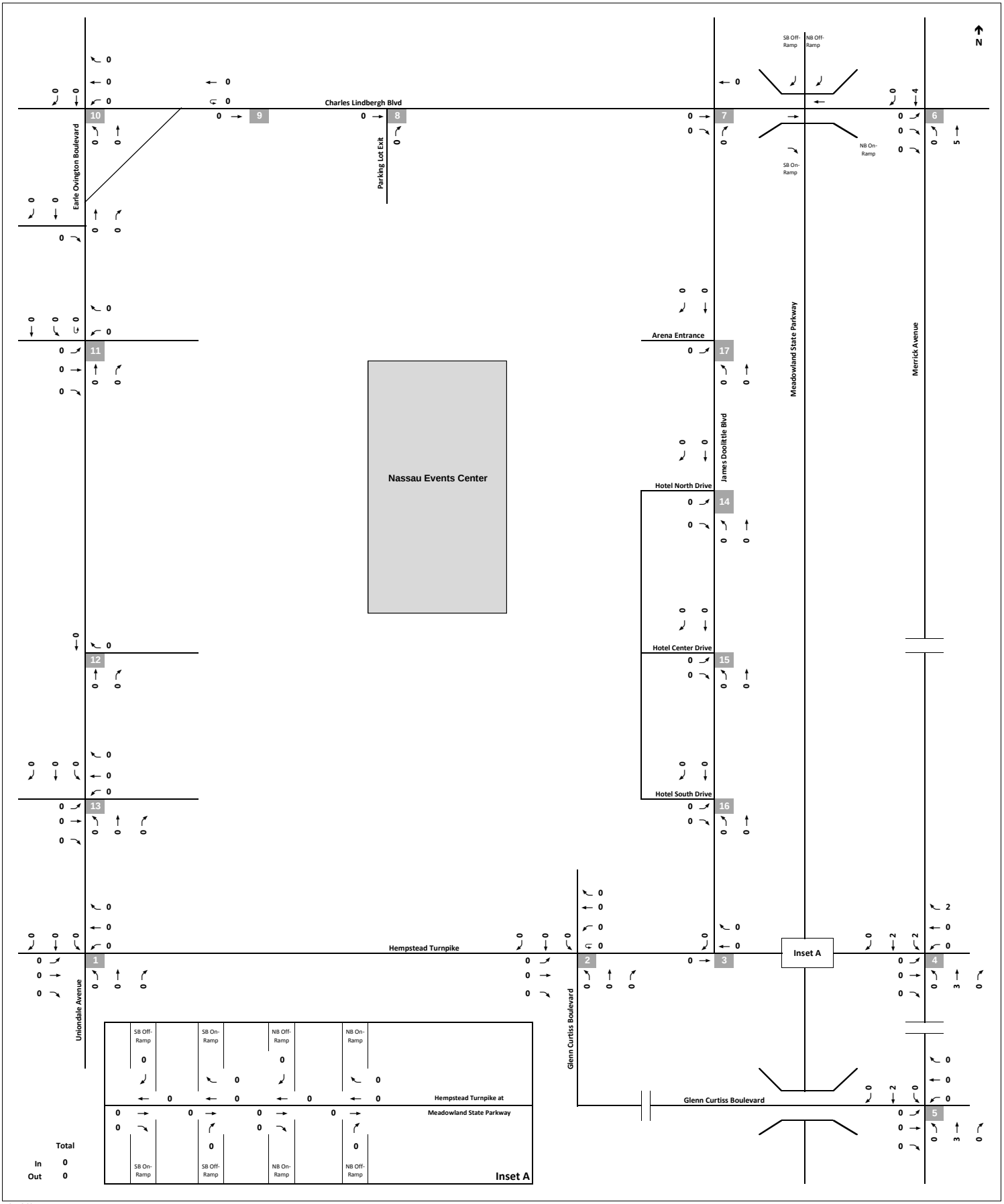
No Build Project Traffic Volumes - Courtyard by Marriott
Weekday Afternoon Peak Hour
Figure 10



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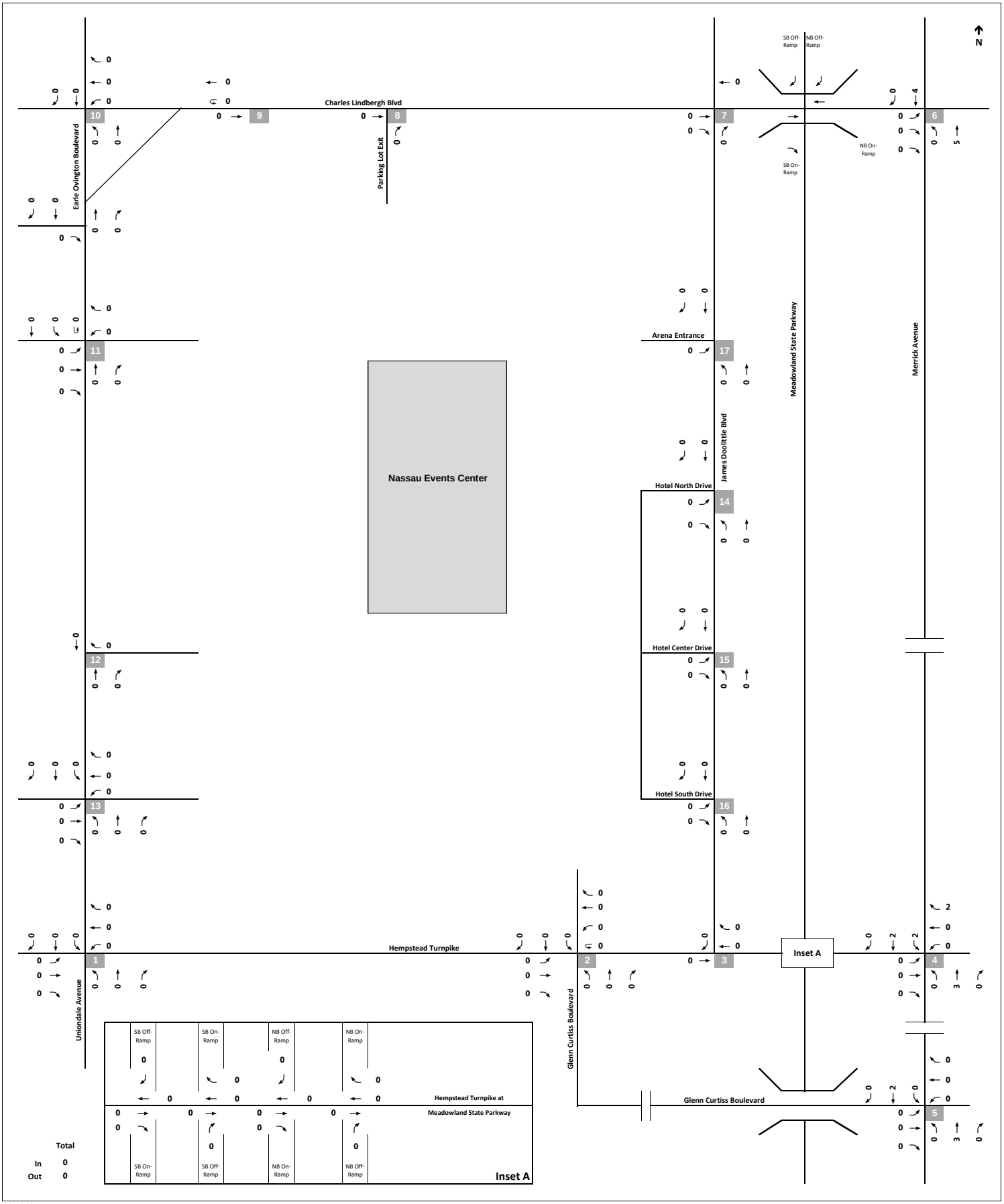
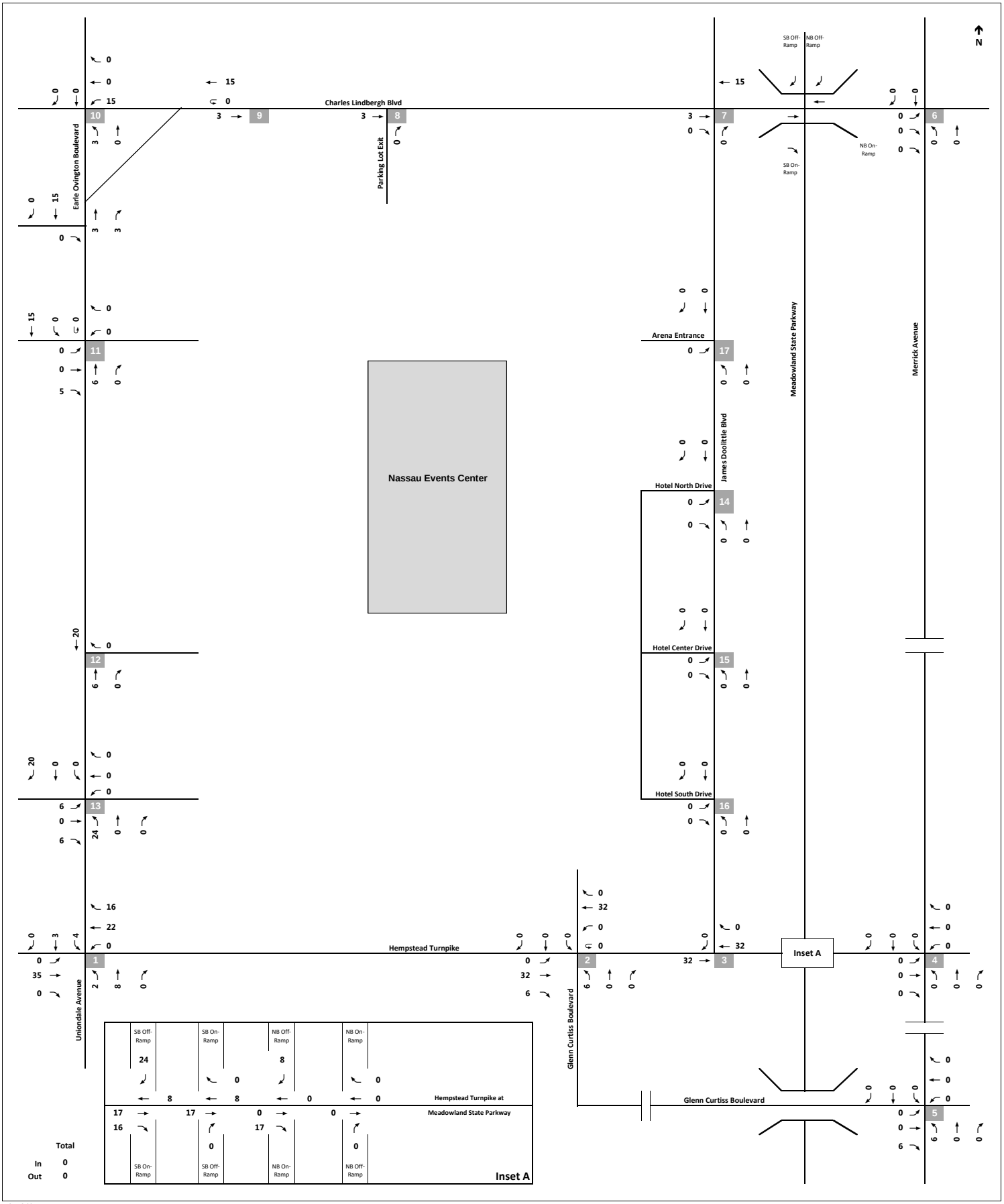
No Build Project Traffic Volumes - Courtyard by Marriott
Weekday Pre-Event Peak Hour
Figure 11



No Build Project Traffic Volumes - Courtyard by Marriott
Saturday Midday Peak Hour
Figure 12



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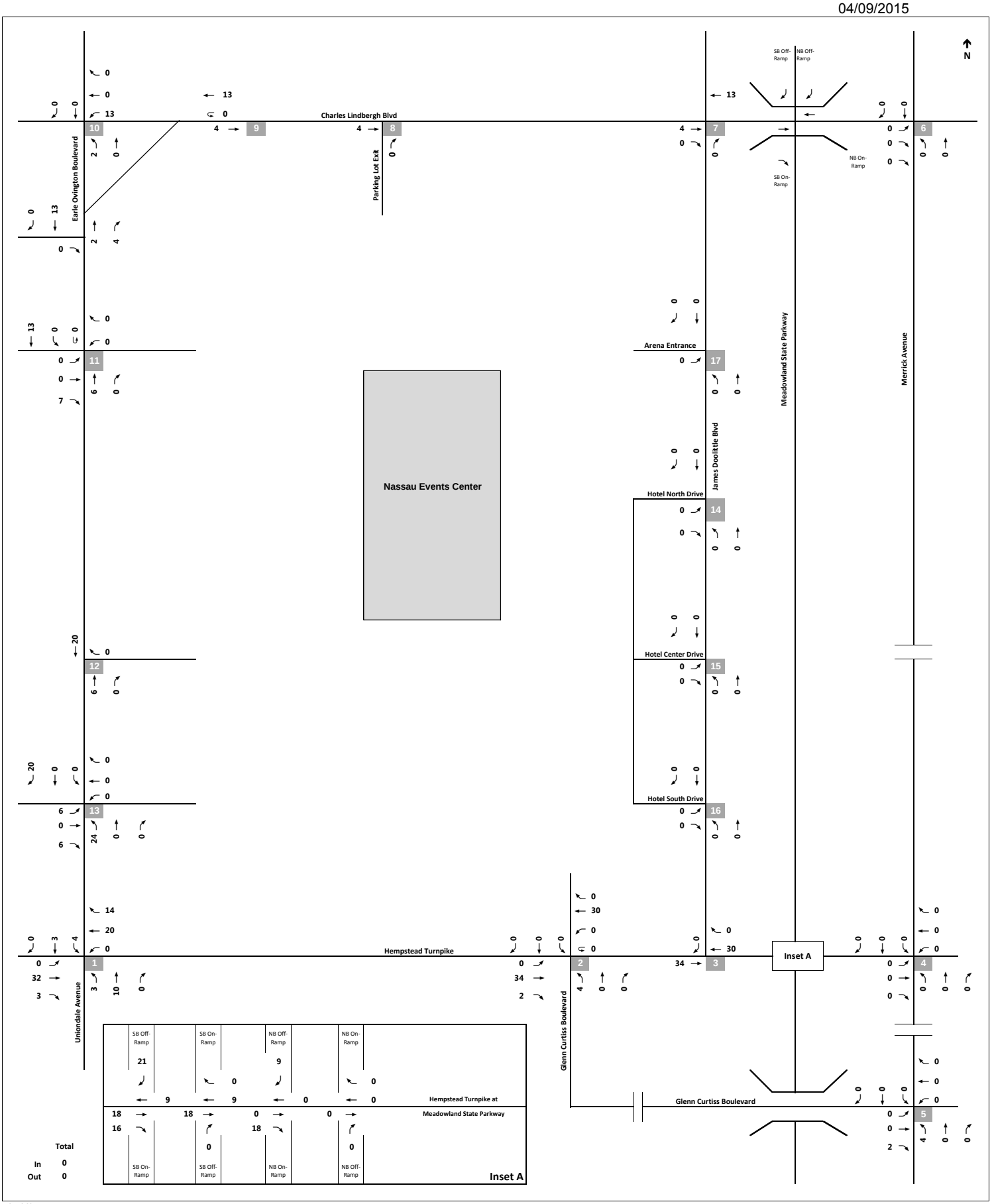
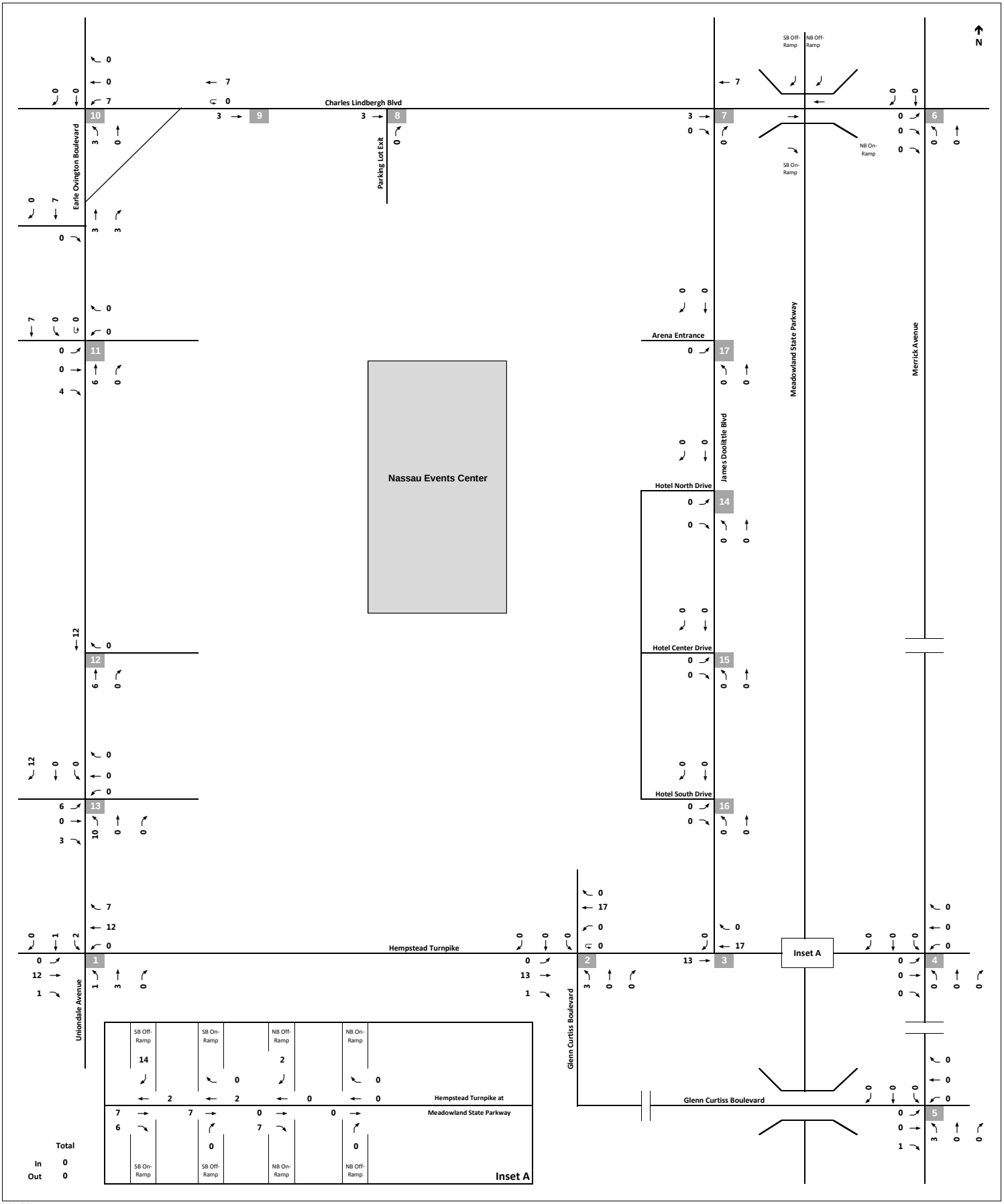
No Build Project Traffic Volumes - Hofstra North Shore - LIJ School of Medicine Expansion
Weekday Afternoon Peak Hour

Figure 13



No Build Project Traffic Volumes - Hofstra North Shore - LIJ School of Medicine Expansion
Weekday Pre-Event Peak Hour

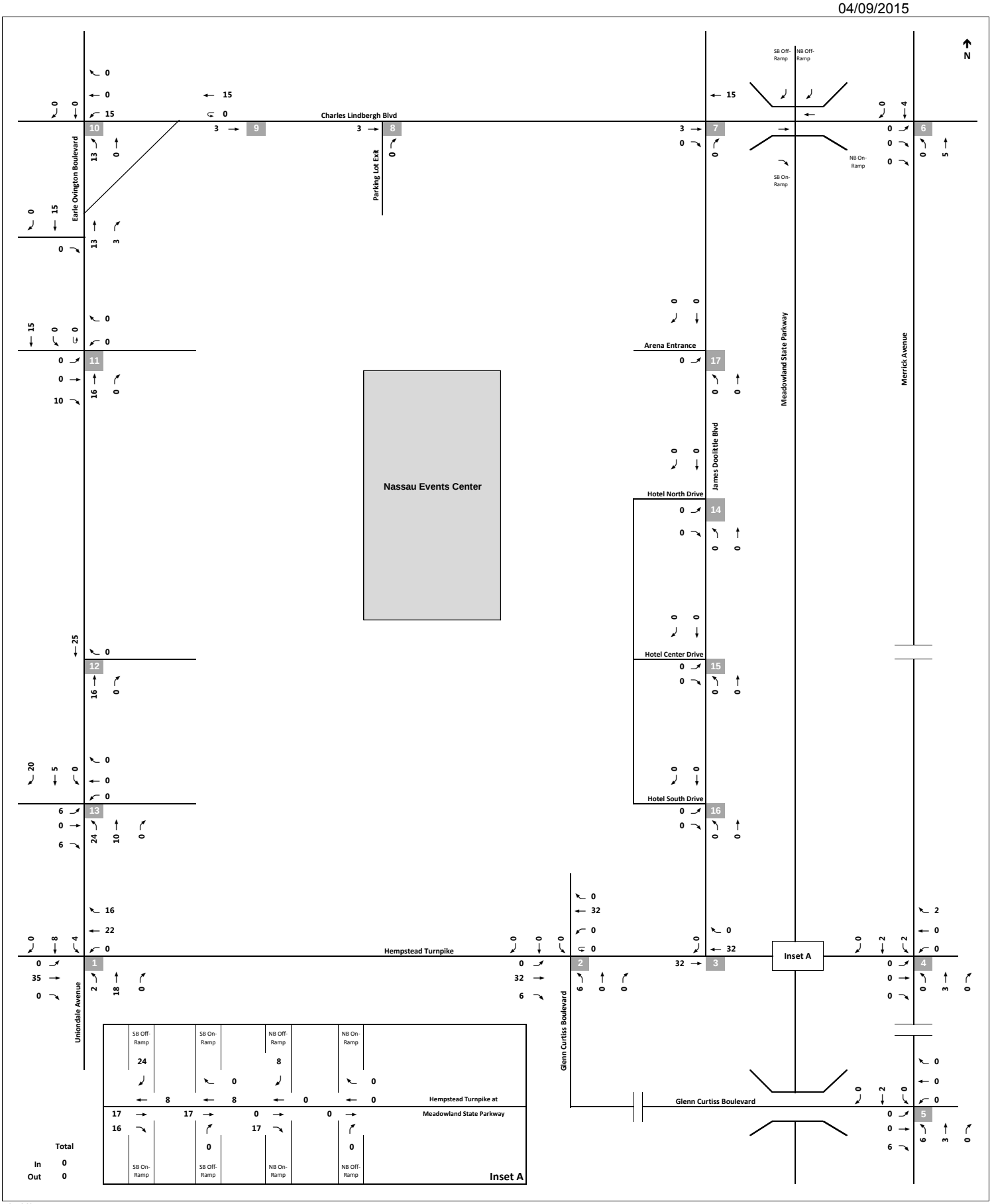
Figure 14



NOT TO SCALE

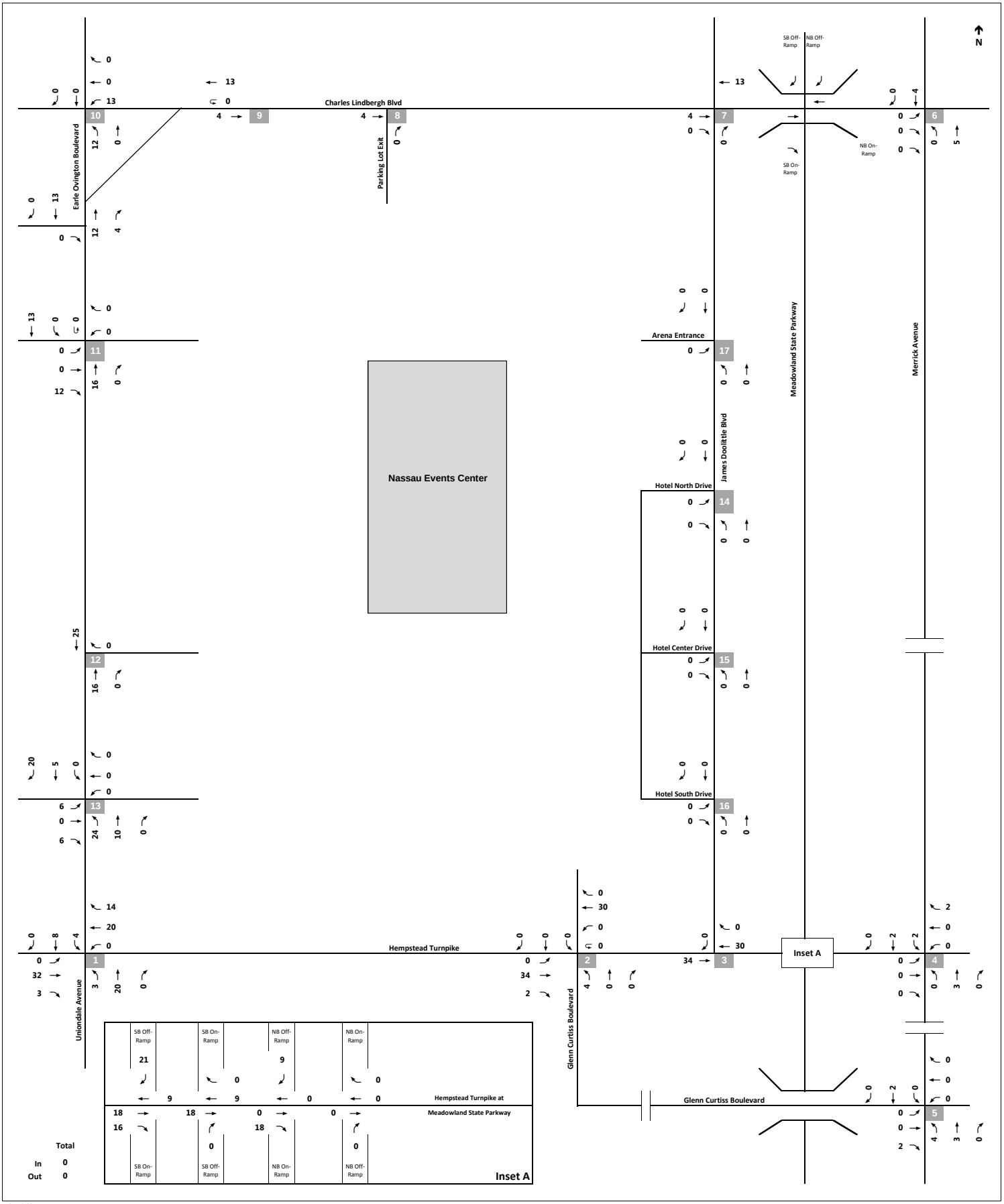
No Build Project Traffic Volumes - Hofstra North Shore - LIJ School of Medicine Expansion
Saturday Midday Peak Hour

Figure 15



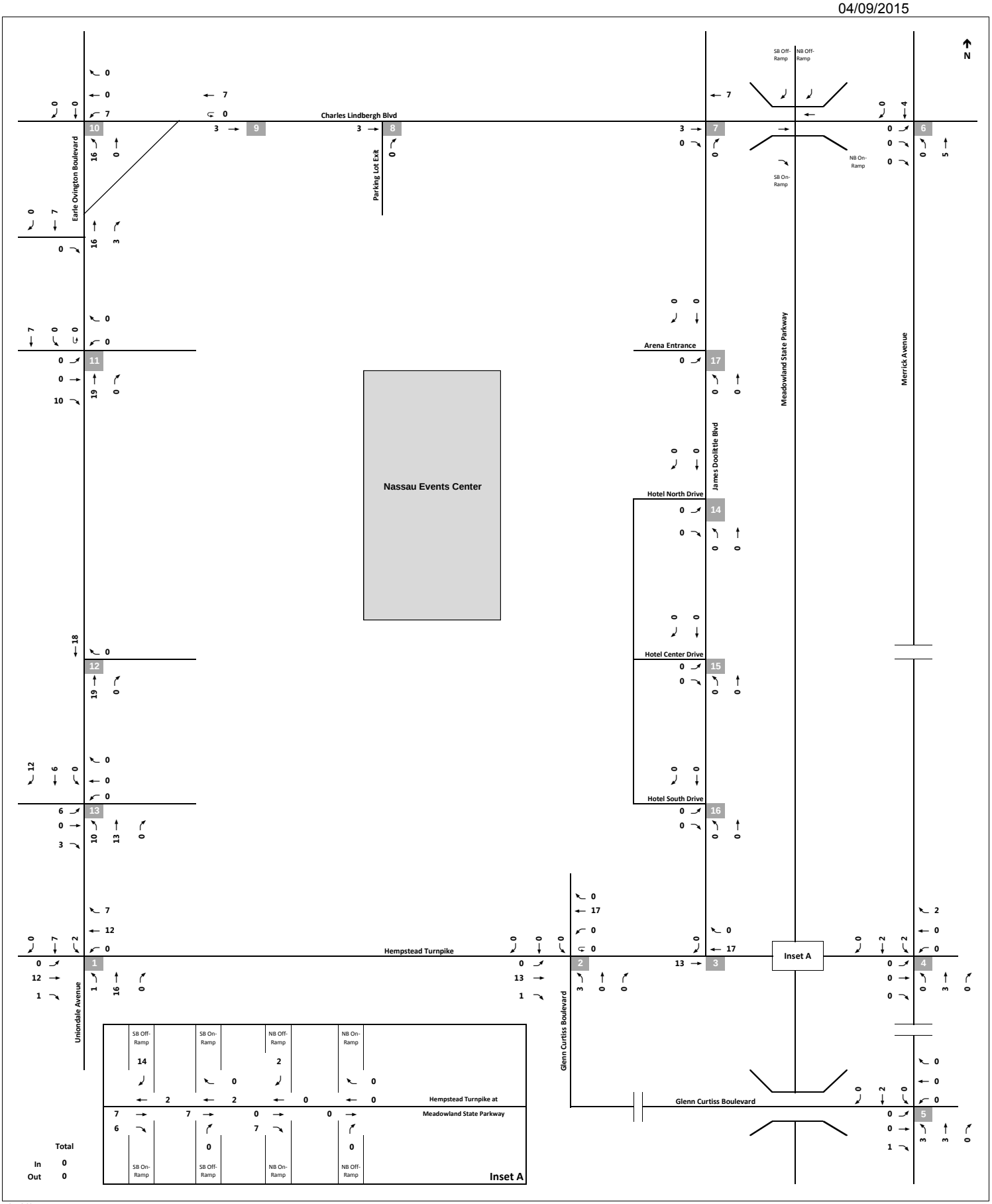
NOT TO SCALE

No Build Project Traffic Volumes
Weekday Afternoon Peak Hour
Figure 16



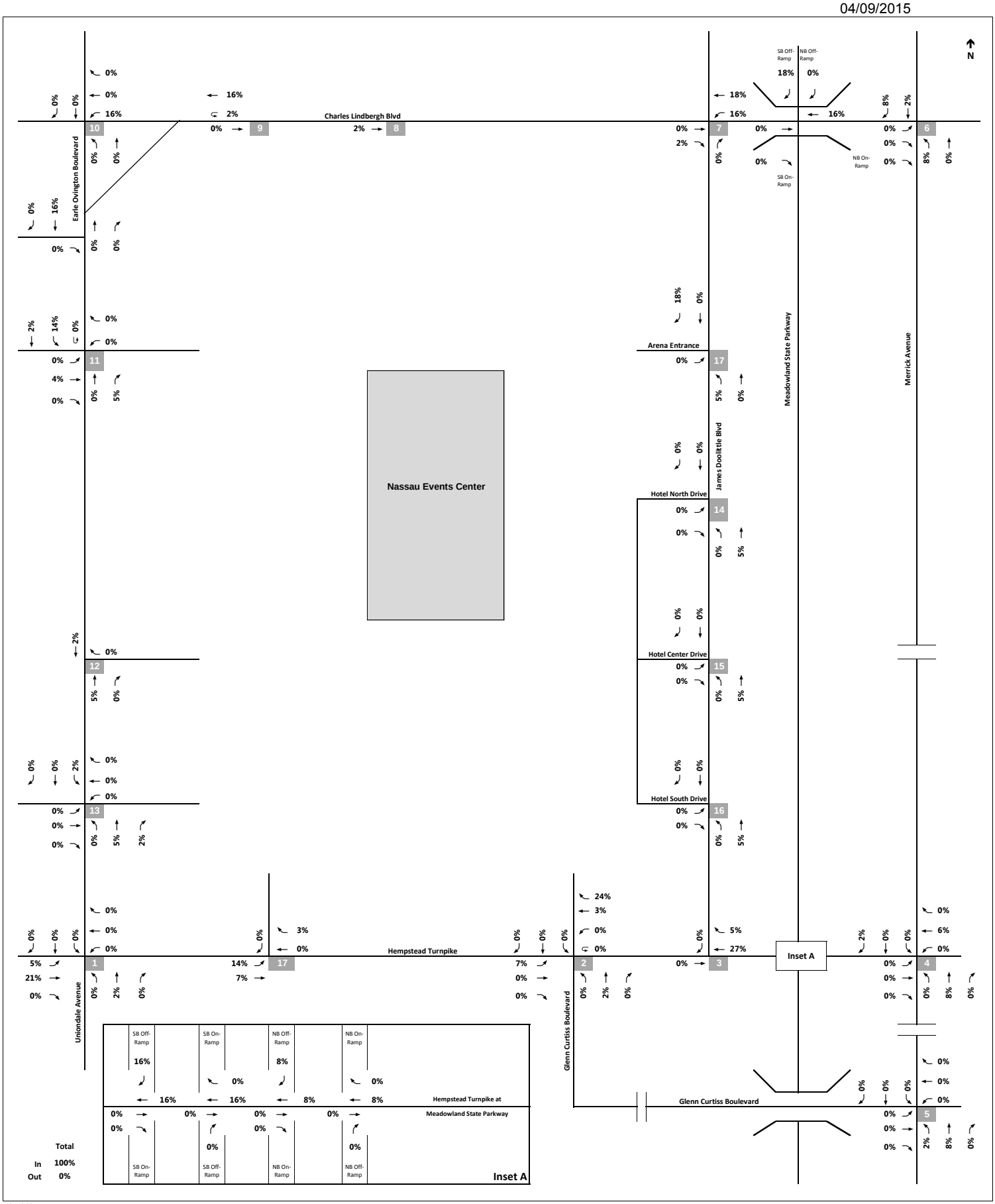
NOT TO SCALE

No Build Project Traffic Volumes
Weekday Pre-Event Peak Hour
Figure 17



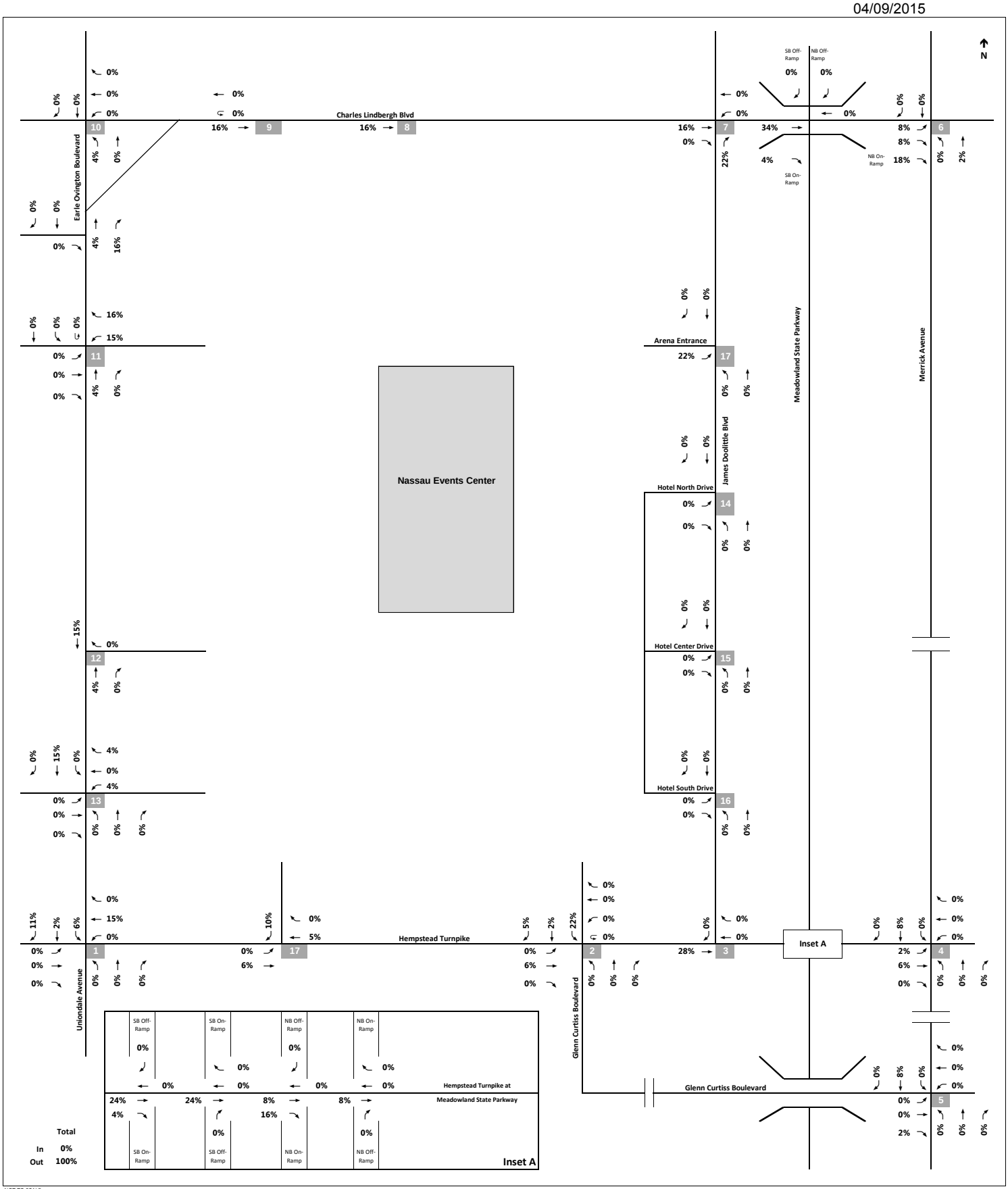
NOT TO SCALE

No Build Project Traffic Volumes
Saturday Midday Peak Hour
Figure 18

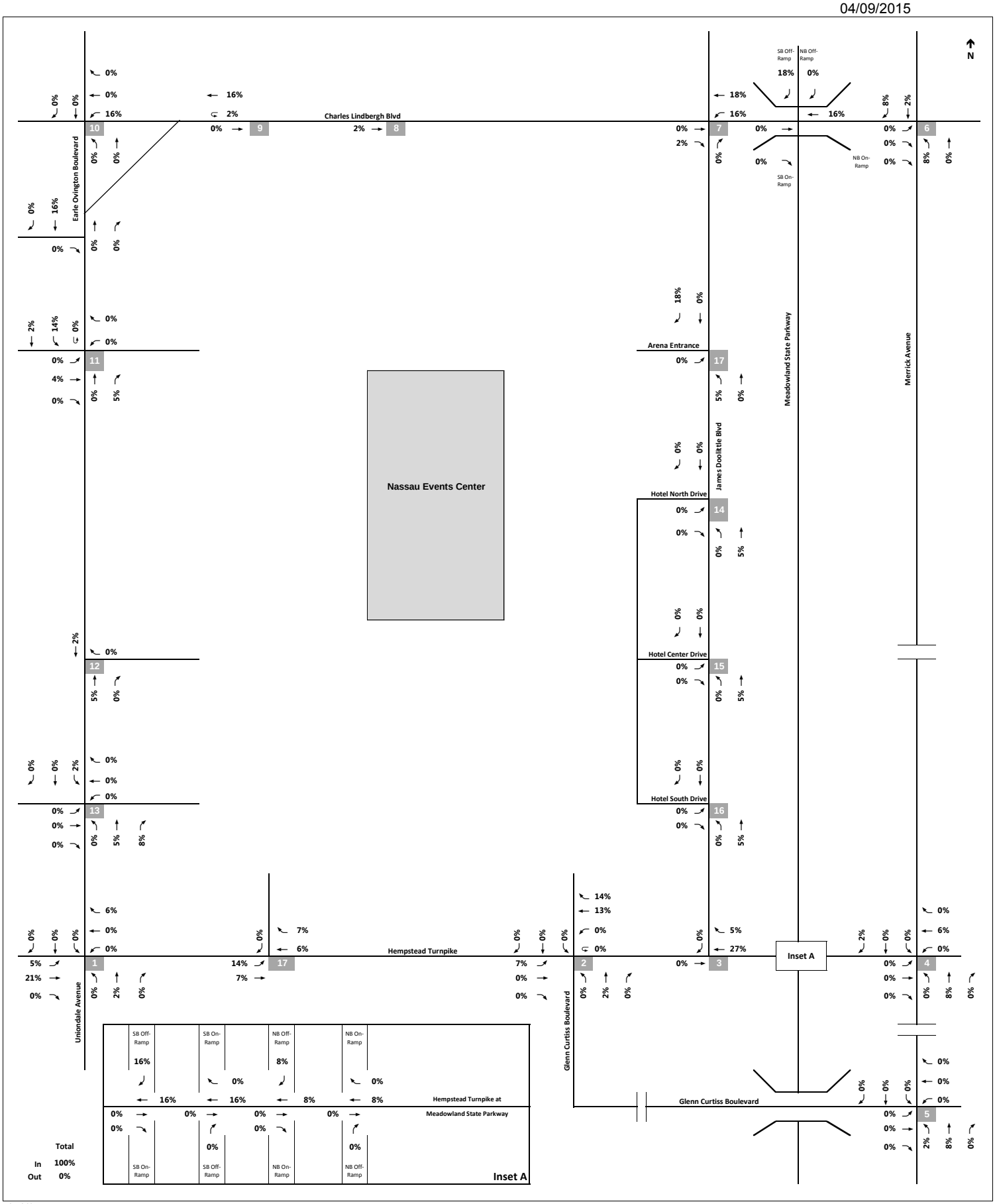


Non-Arena Inbound Trip Distribution
Weekday Afternoon Peak Hour

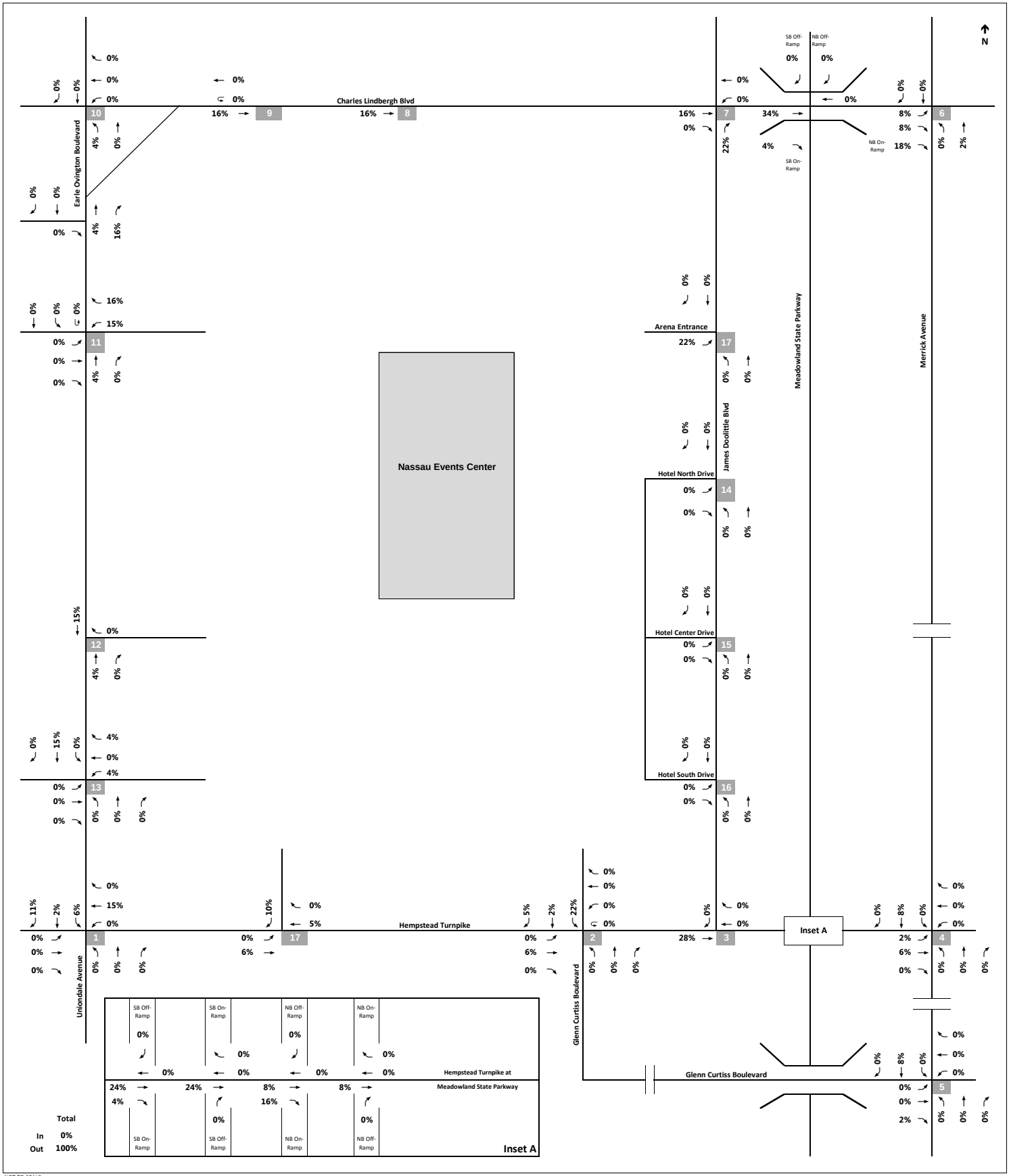
Figure 19



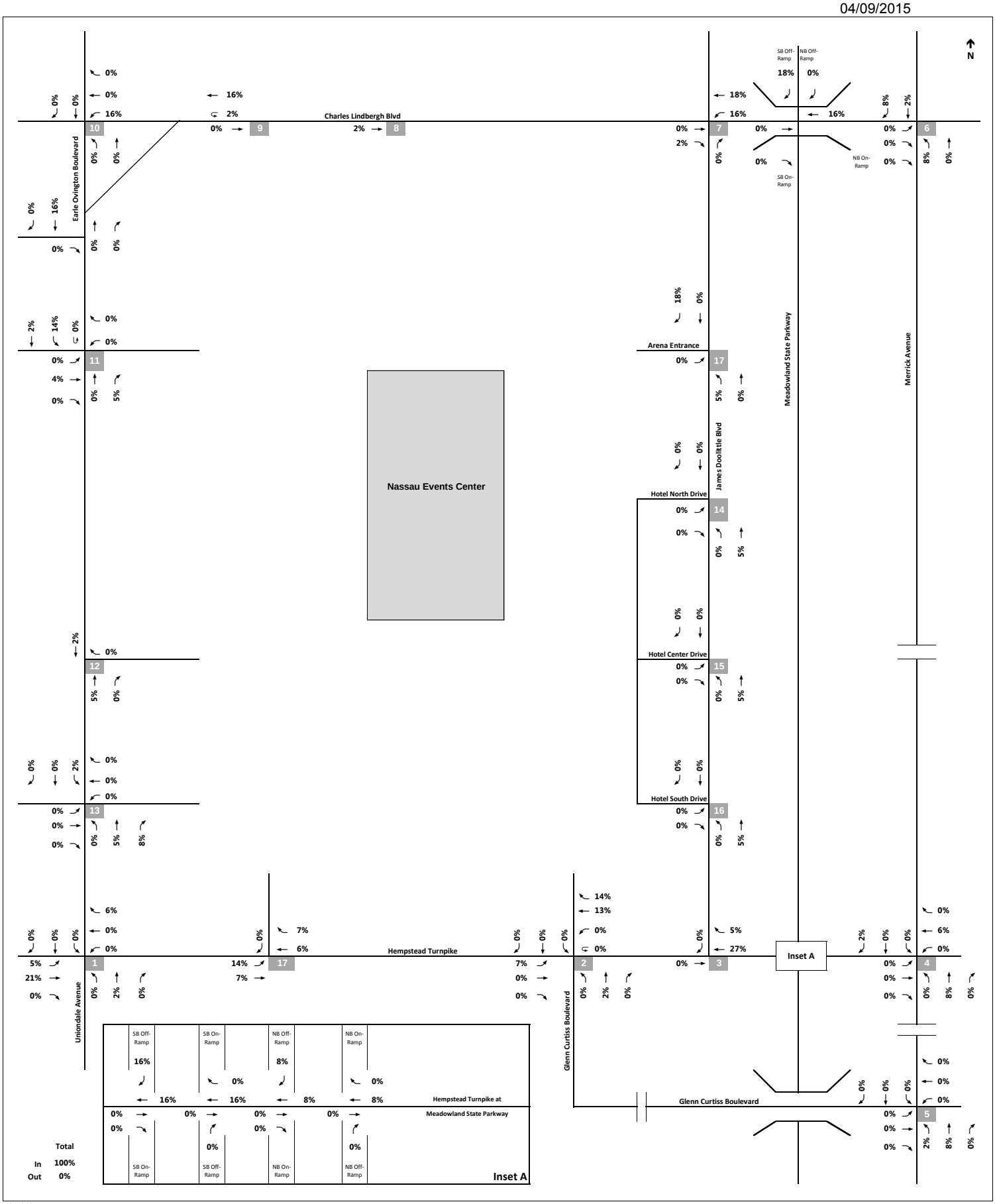
Non-Arena Outbound Trip Distribution
Weekday Afternoon Peak Hour
Figure 20



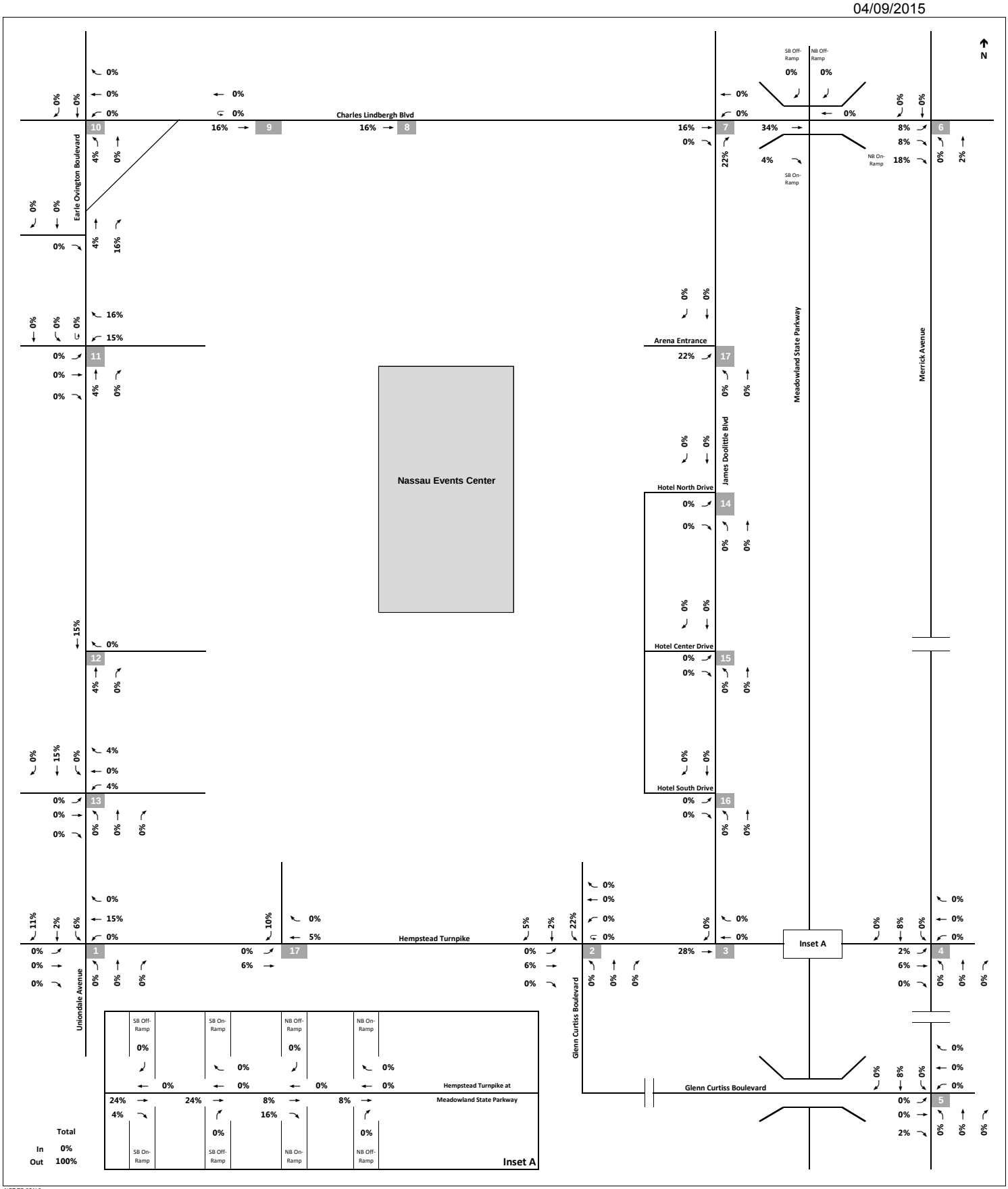
Non-Arena Inbound Trip Distribution
Weekday Pre-Event Peak Hour
Figure 21



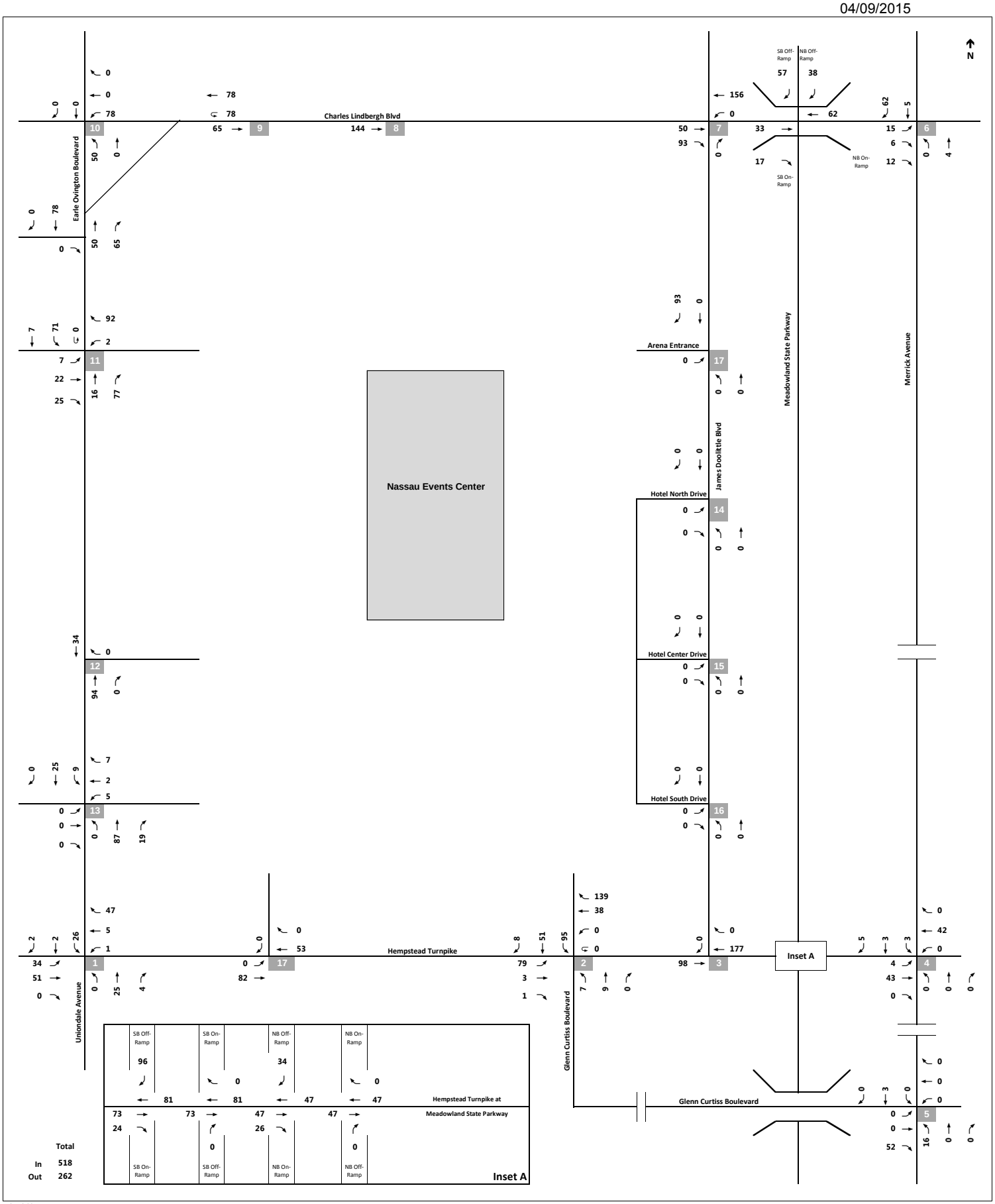
Non-Arena Outbound Trip Distribution
Weekday Pre-Event Peak Hour
Figure 22



Non-Arena Inbound Trip Distribution
Saturday Midday Peak Hour
Figure 23



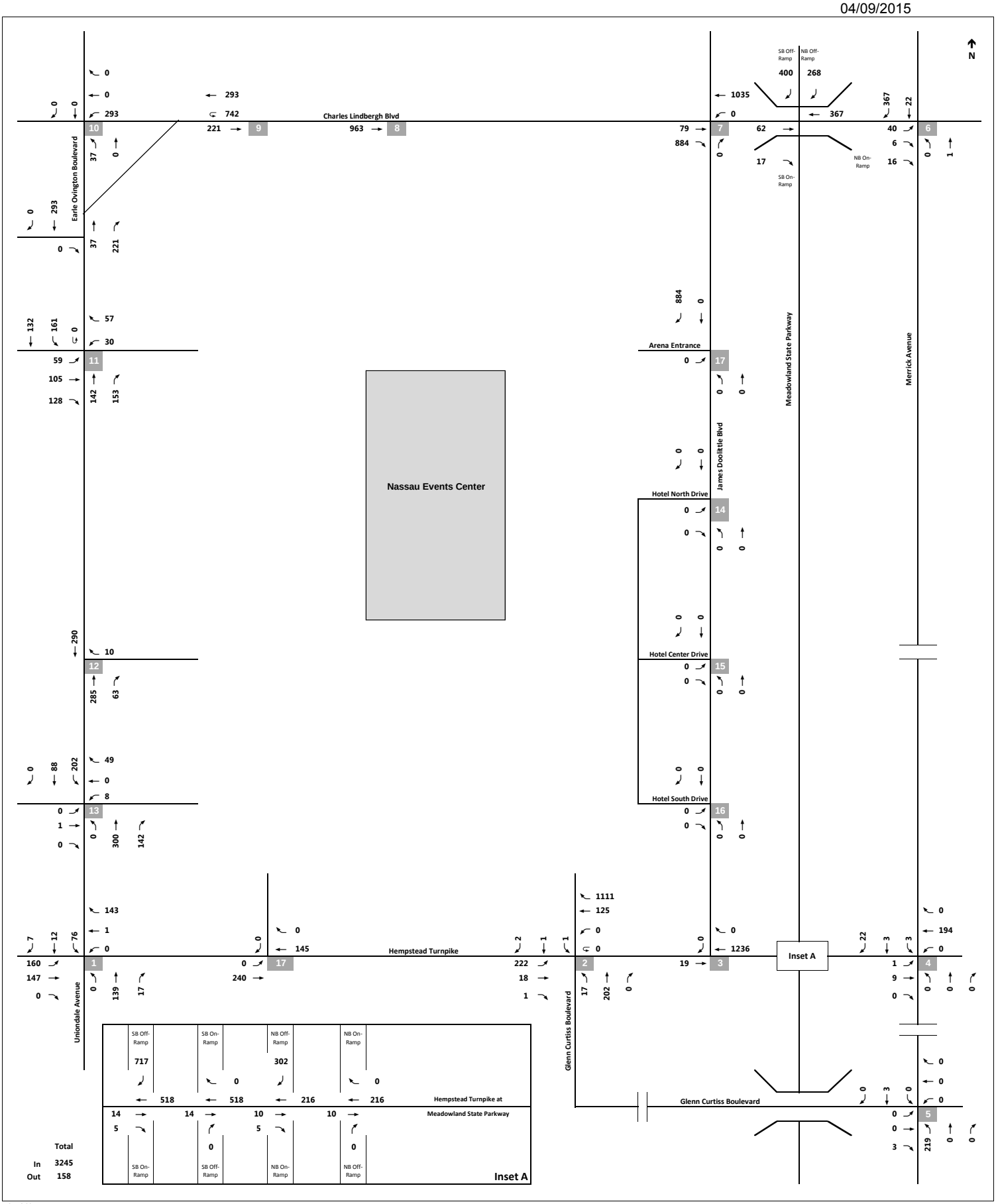
Non-Arena Outbound Trip Distribution
Saturday Midday Peak Hour
Figure 24



NOT TO SCALE

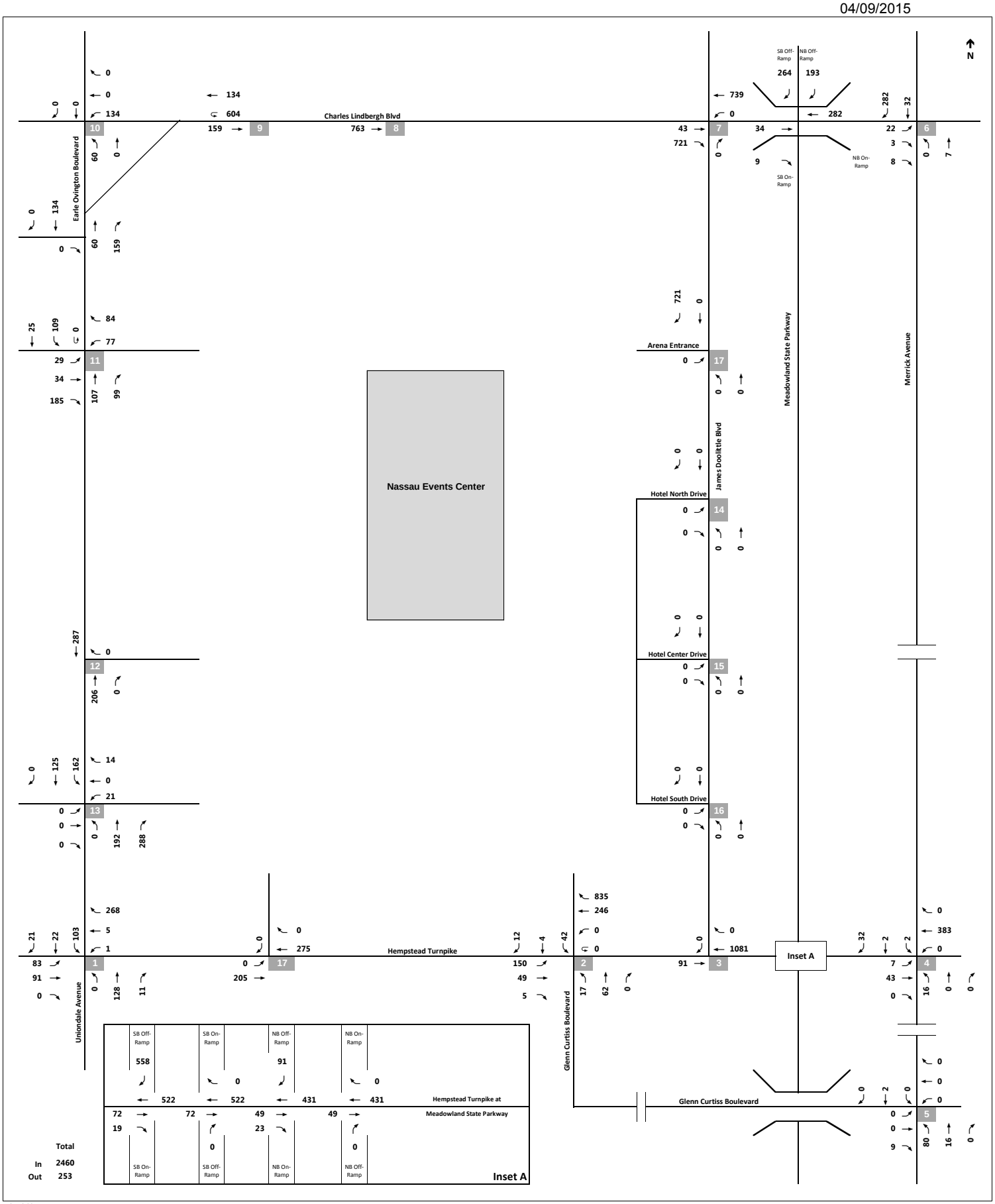
Future Arena Traffic Volumes without Diversion (13,000 Seats)
Weekday Afternoon Peak Hour

Figure 25



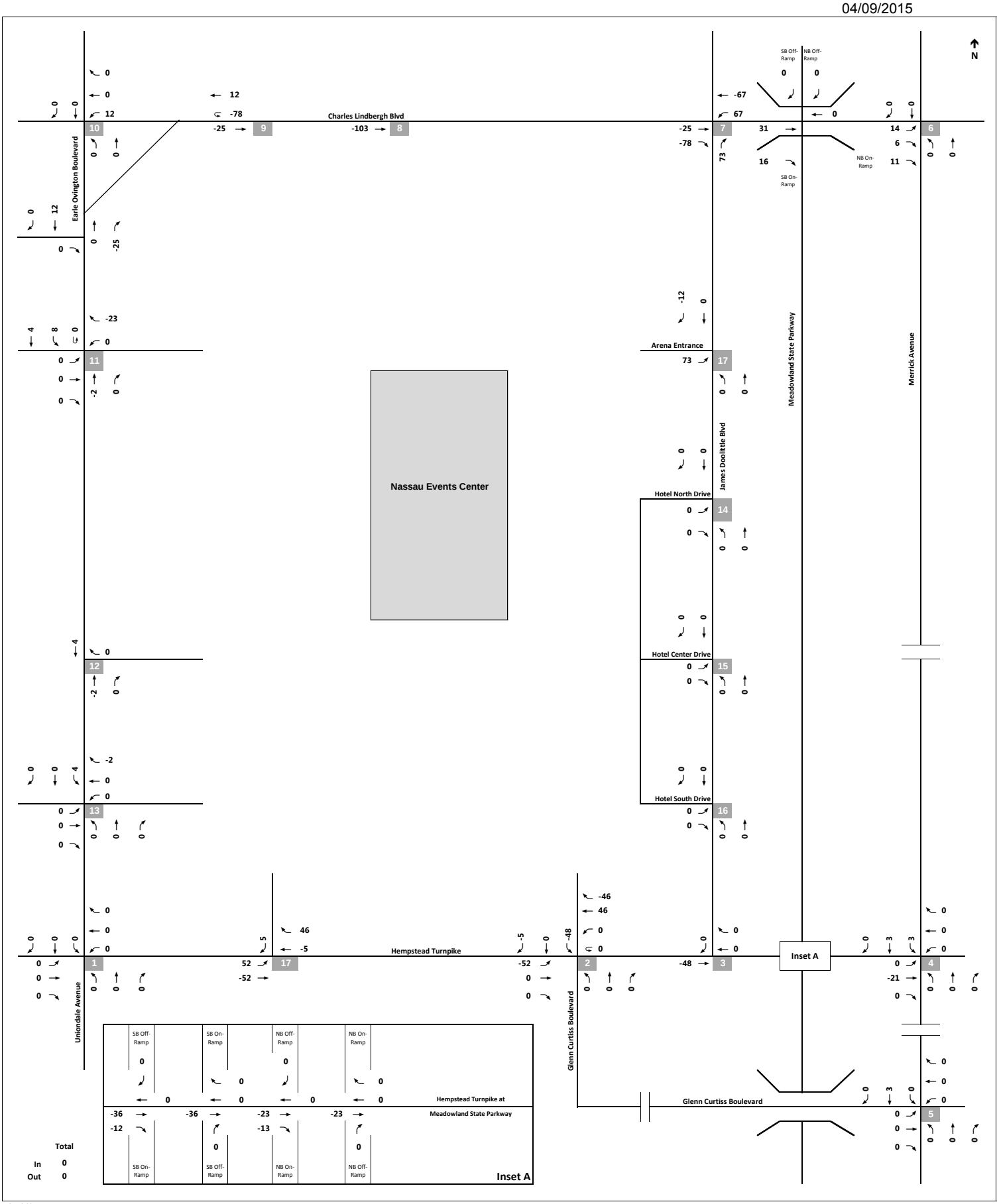
Future Arena Traffic Volumes without Diversion (13,000 Seats)
Weekday Pre-Event Peak Hour

Figure 26



Future Arena Traffic Volumes without Diversion (13,000 Seats)
Saturday Midday Peak Hour

Figure 27



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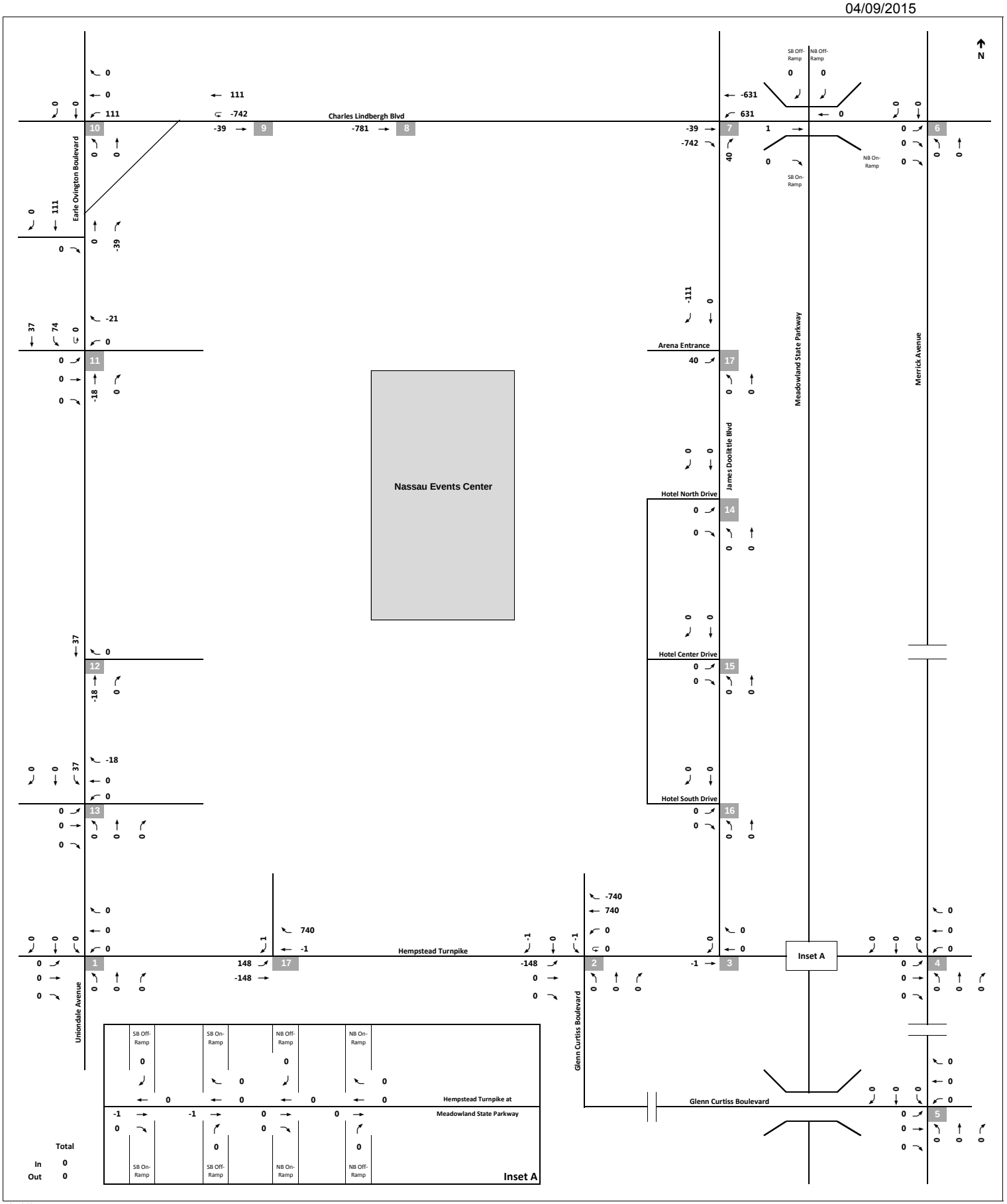
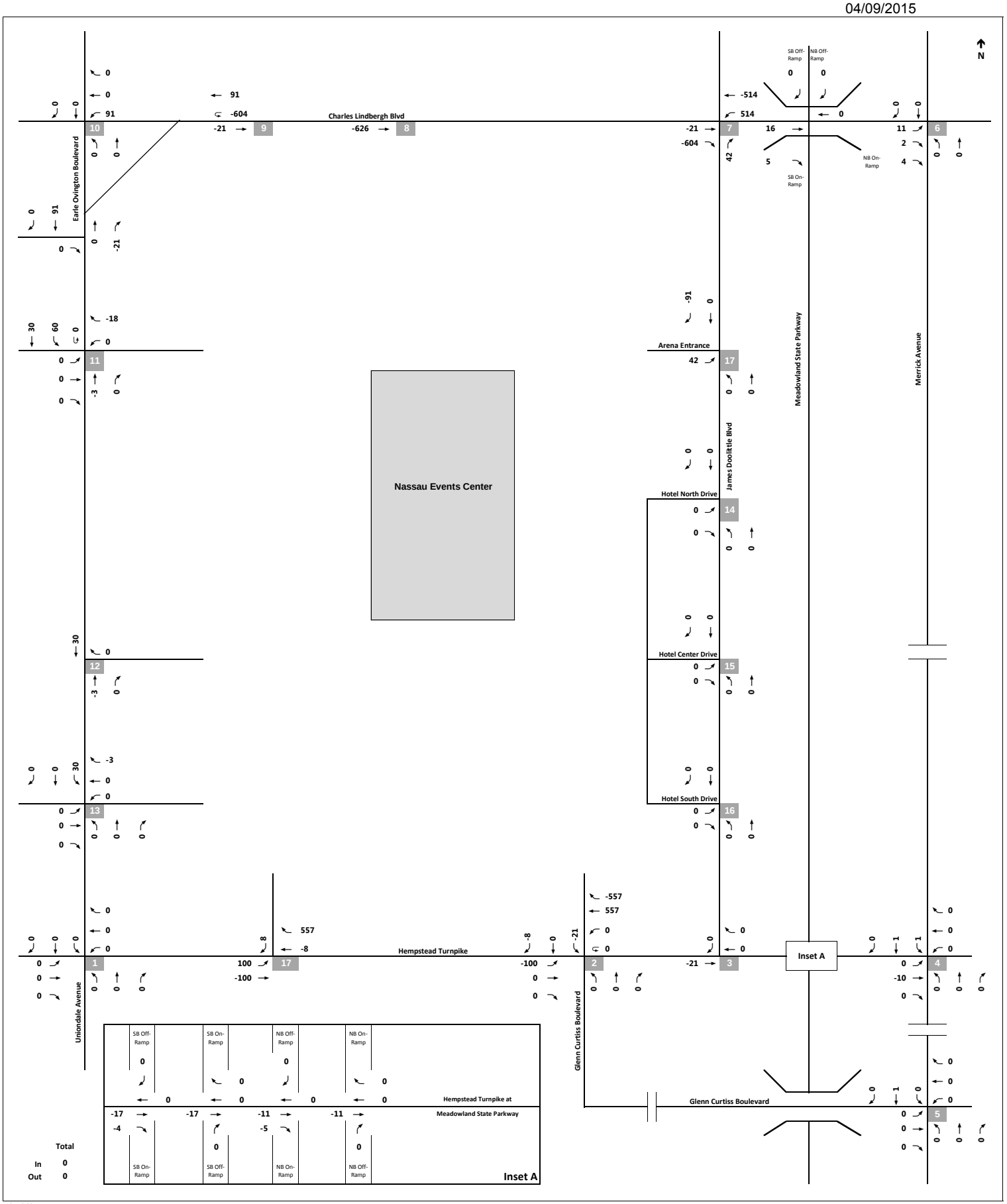
Future Arena Traffic Volumes Diversion Only (13,000 Seats)
Weekday Afternoon Peak Hour



NOT TO SCALE

Future Arena Traffic Volumes Diversion Only (13,000 Seats)
Weekday Pre-Event Peak Hour

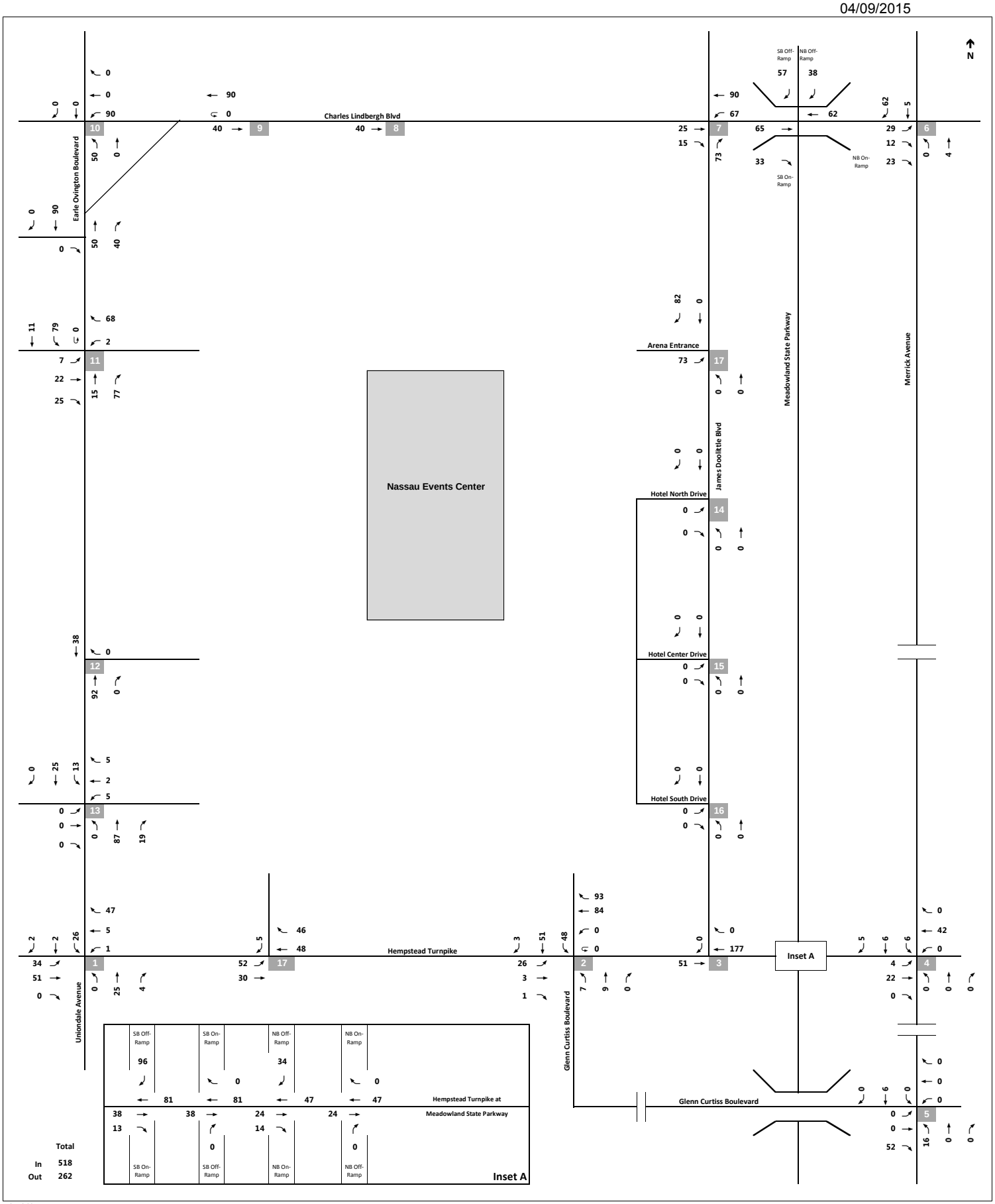
Figure 29



NOT TO SCALE

Future Arena Traffic Volumes Diversion Only (13,000 Seats)
Saturday Midday Peak Hour

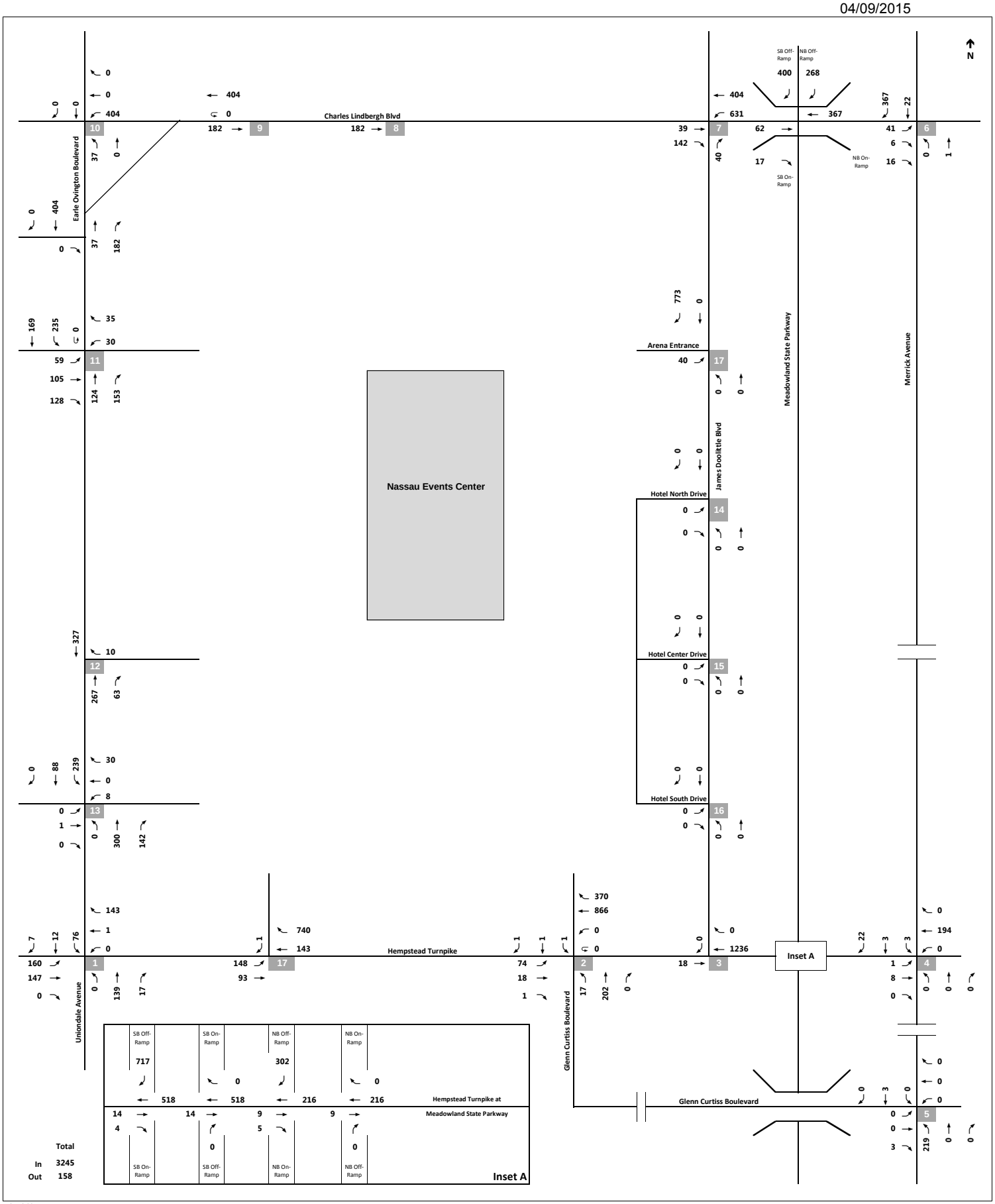
Figure 30



NOT TO SCALE

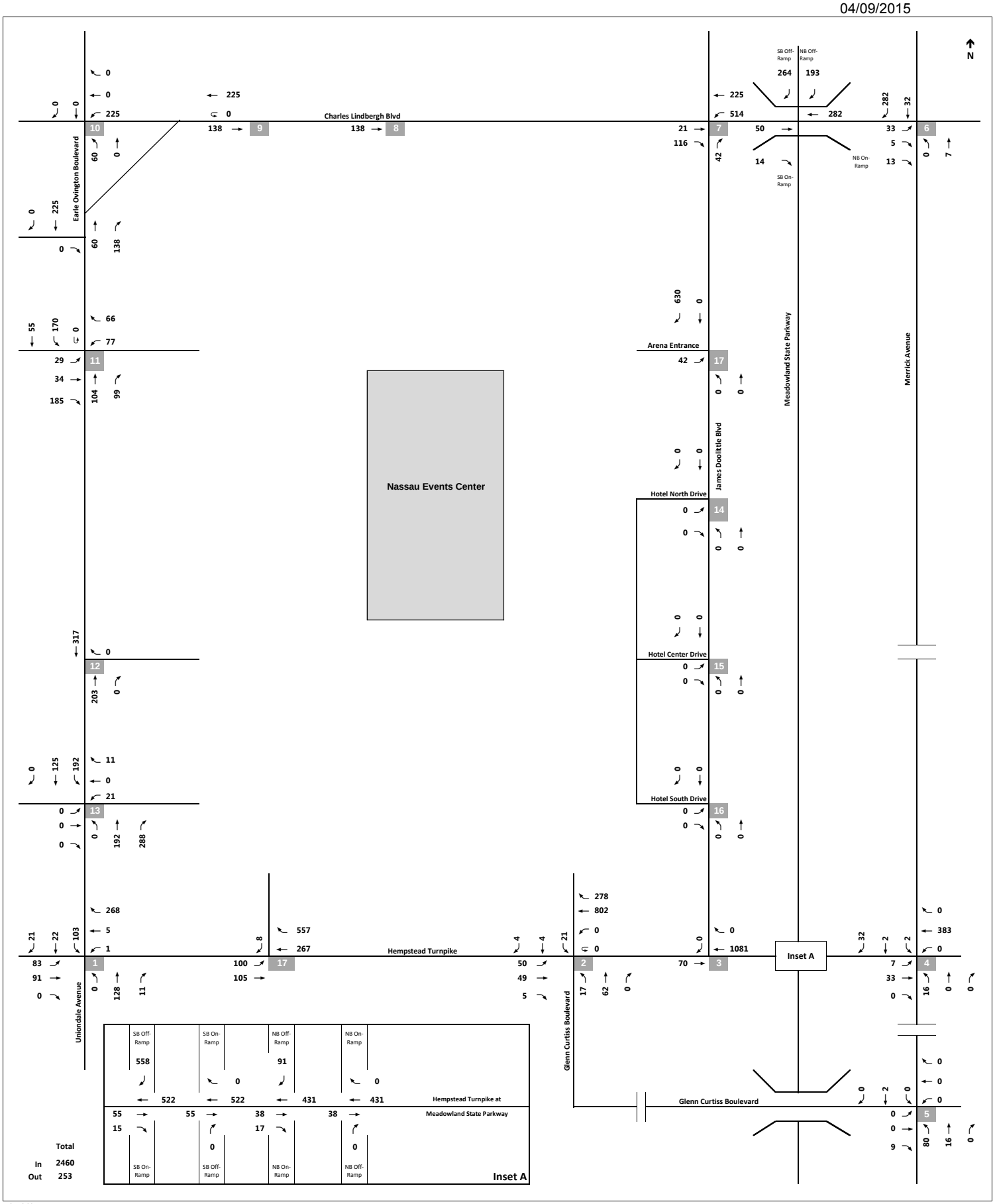
Future Arena Traffic Volumes (13,000 Seats)
Weekday Afternoon Peak Hour

Figure 31

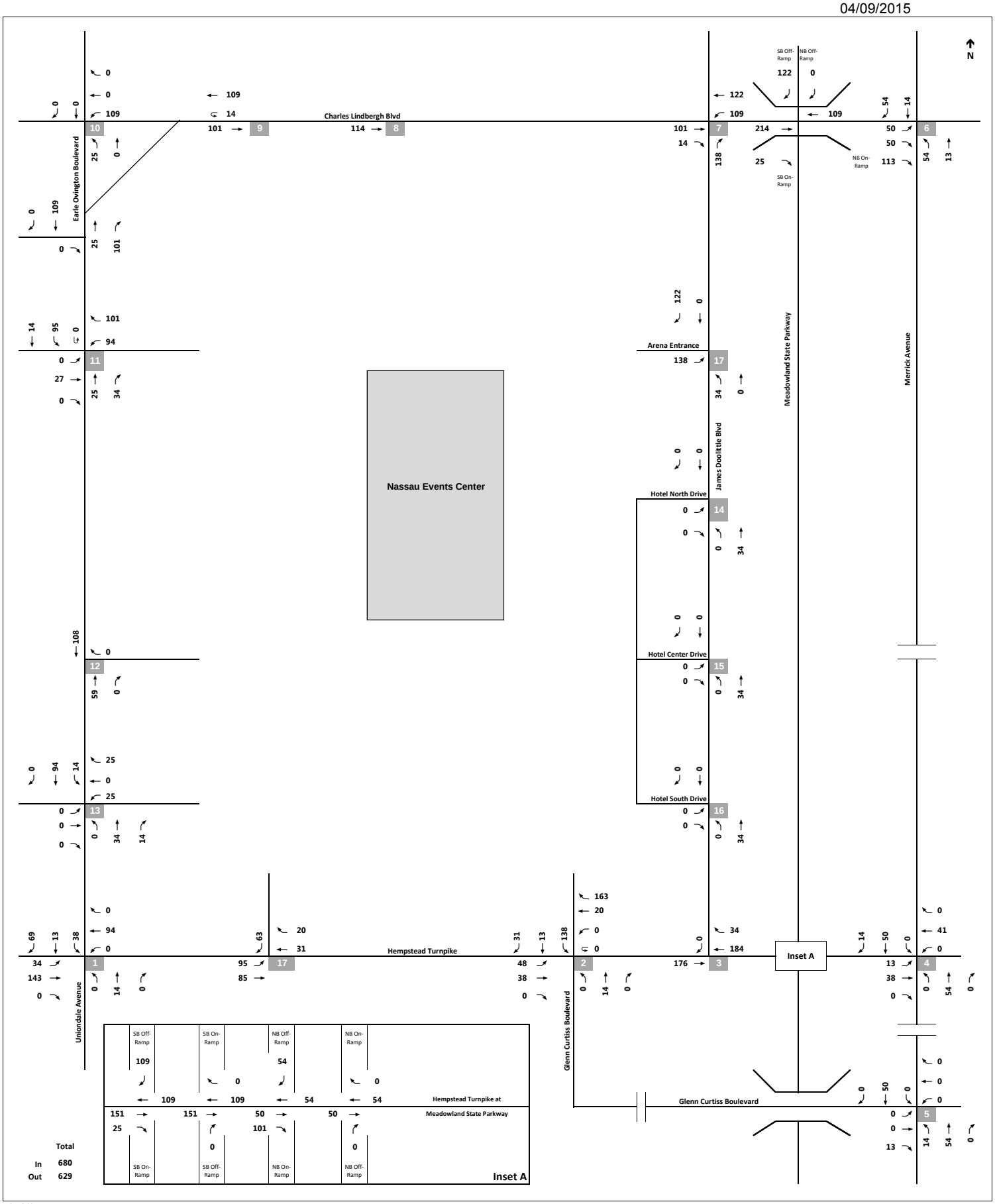


NOT TO SCALE

Future Arena Traffic Volumes (13,000 Seats)
Weekday Pre-Event Peak Hour
Figure 32

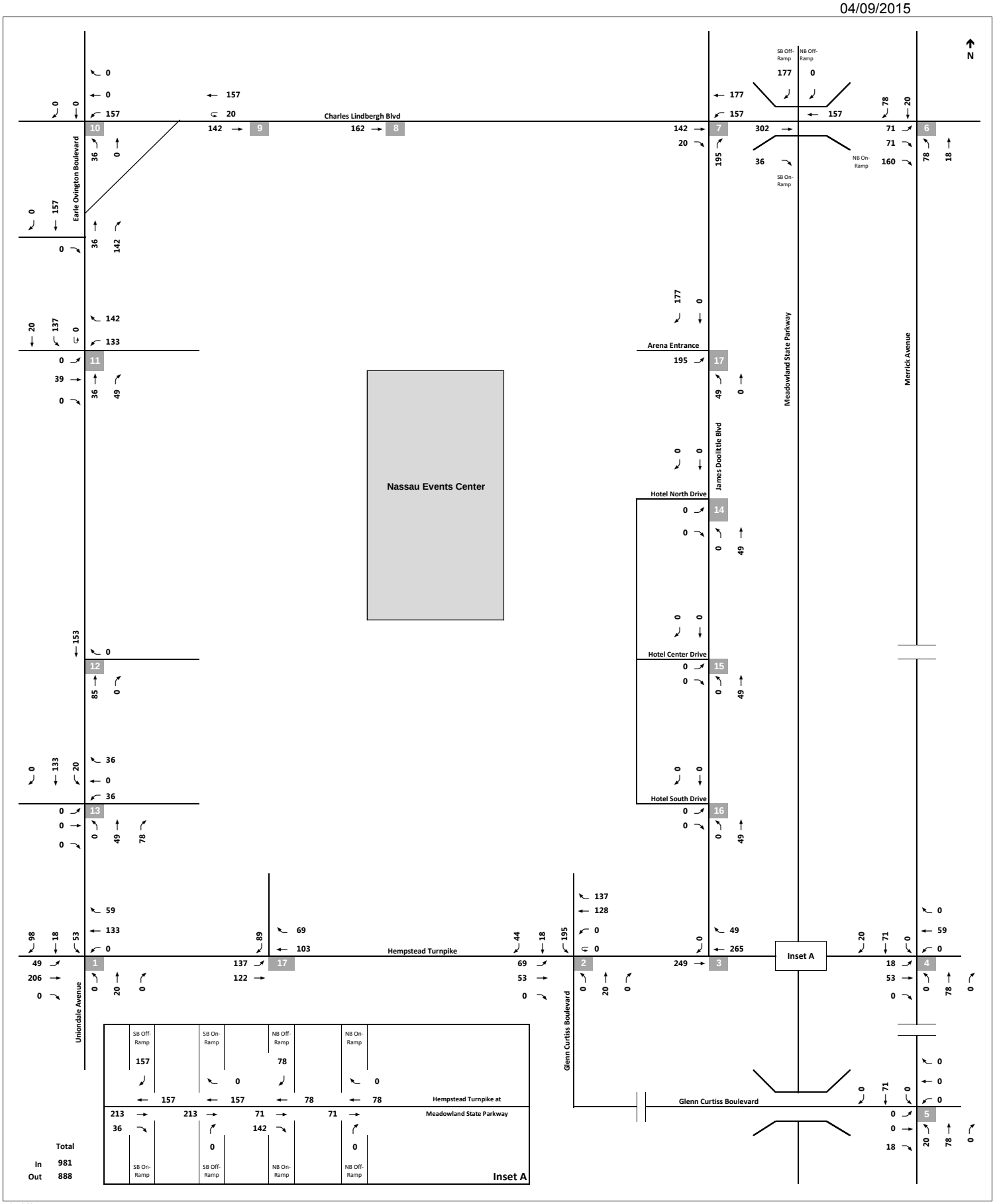


Future Arena Traffic Volumes (13,000 Seats)
Saturday Midday Peak Hour
Figure 33



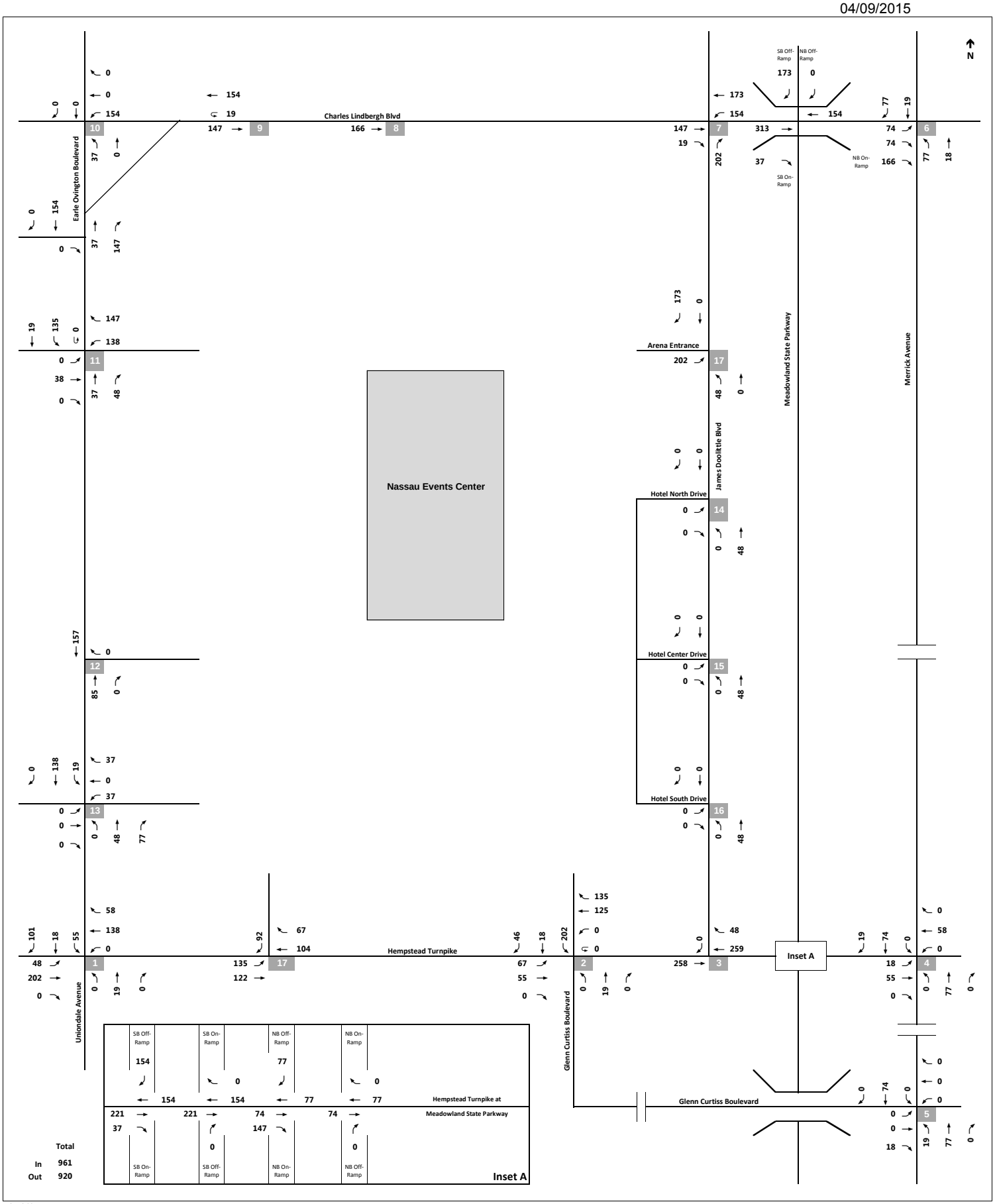
NOT TO SCALE

Non-Arena Traffic Increment
Weekday Afternoon Peak Hour
Figure 34



NOT TO SCALE

Non-Arena Traffic Increment
Weekday Pre-Event Peak Hour
Figure 35



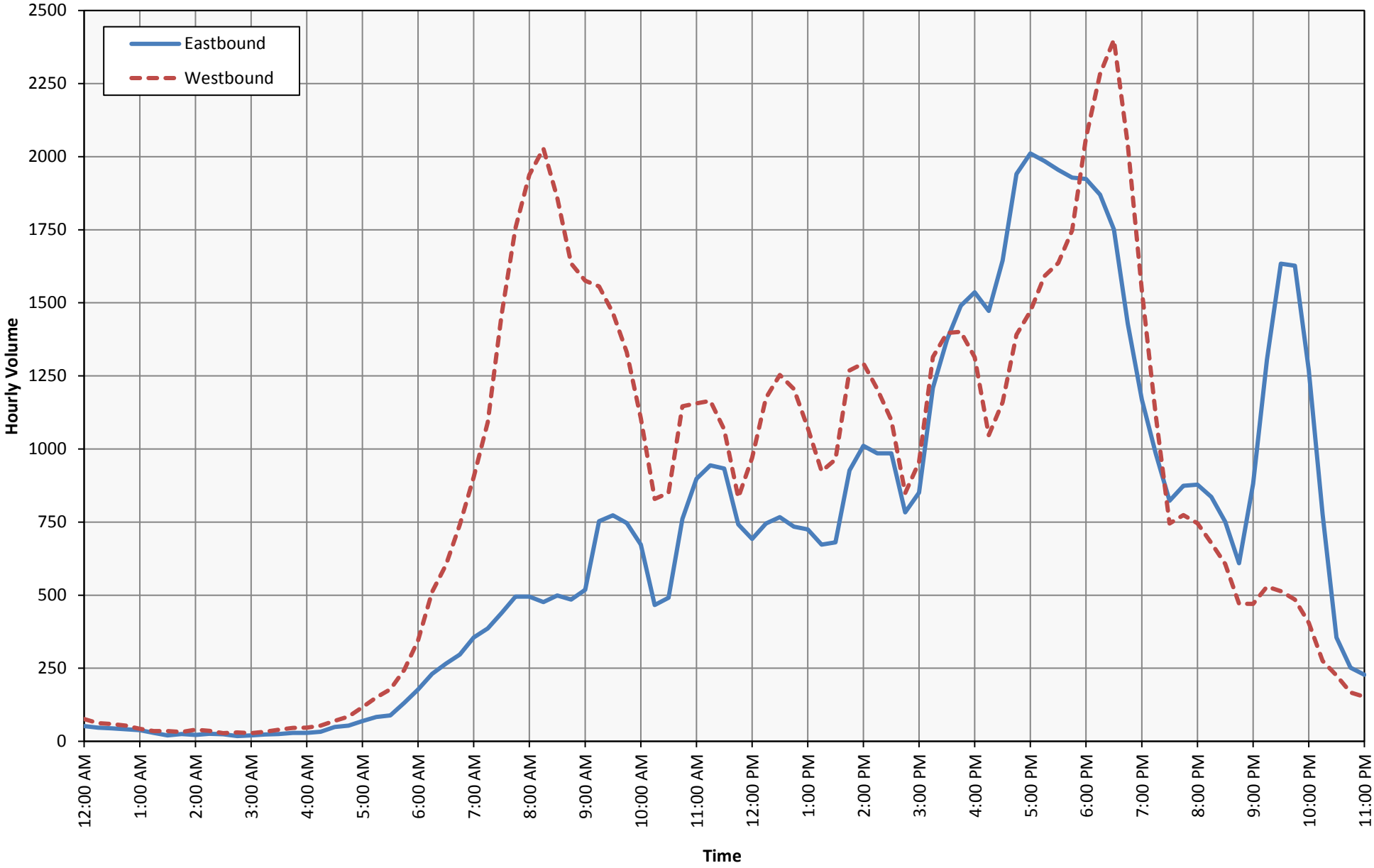
NOT TO SCALE

Non-Arena Traffic Increment
Saturday Midday Peak Hour
Figure 36

Weekday Hourly Volumes
Islanders vs. Rangers: Tuesday, October 29, 2013. 7:00 PM Start

Charles Lindbergh Boulevard

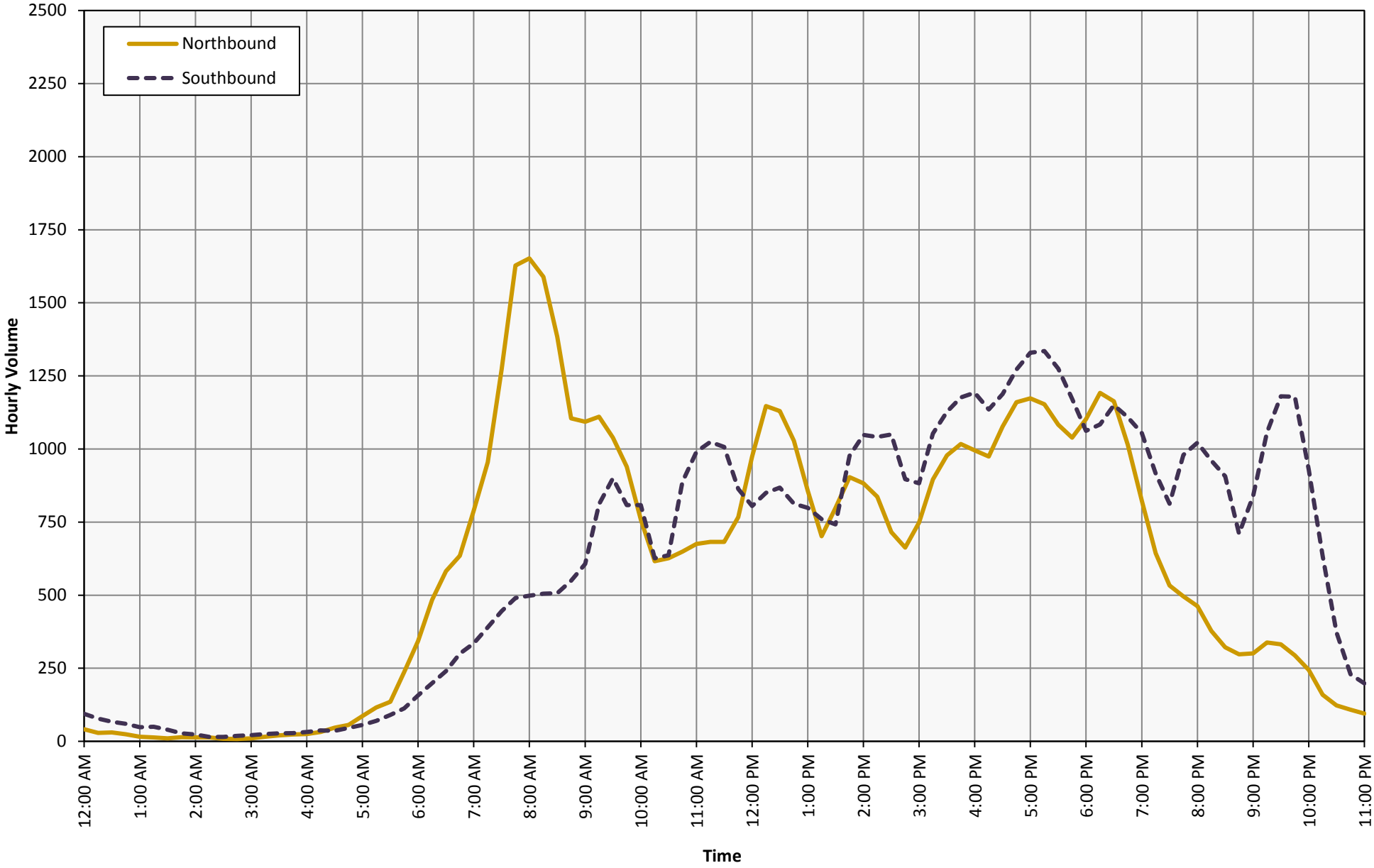
Between Earle Ovington Boulevard and James Doolittle Boulevard



Weekday Hourly Volumes
Islanders vs. Rangers: Tuesday, October 29, 2013. 7:00 PM Start

Earle Ovington Boulevard

Between Charles Lindbergh Boulevard and Hempstead Turnpike

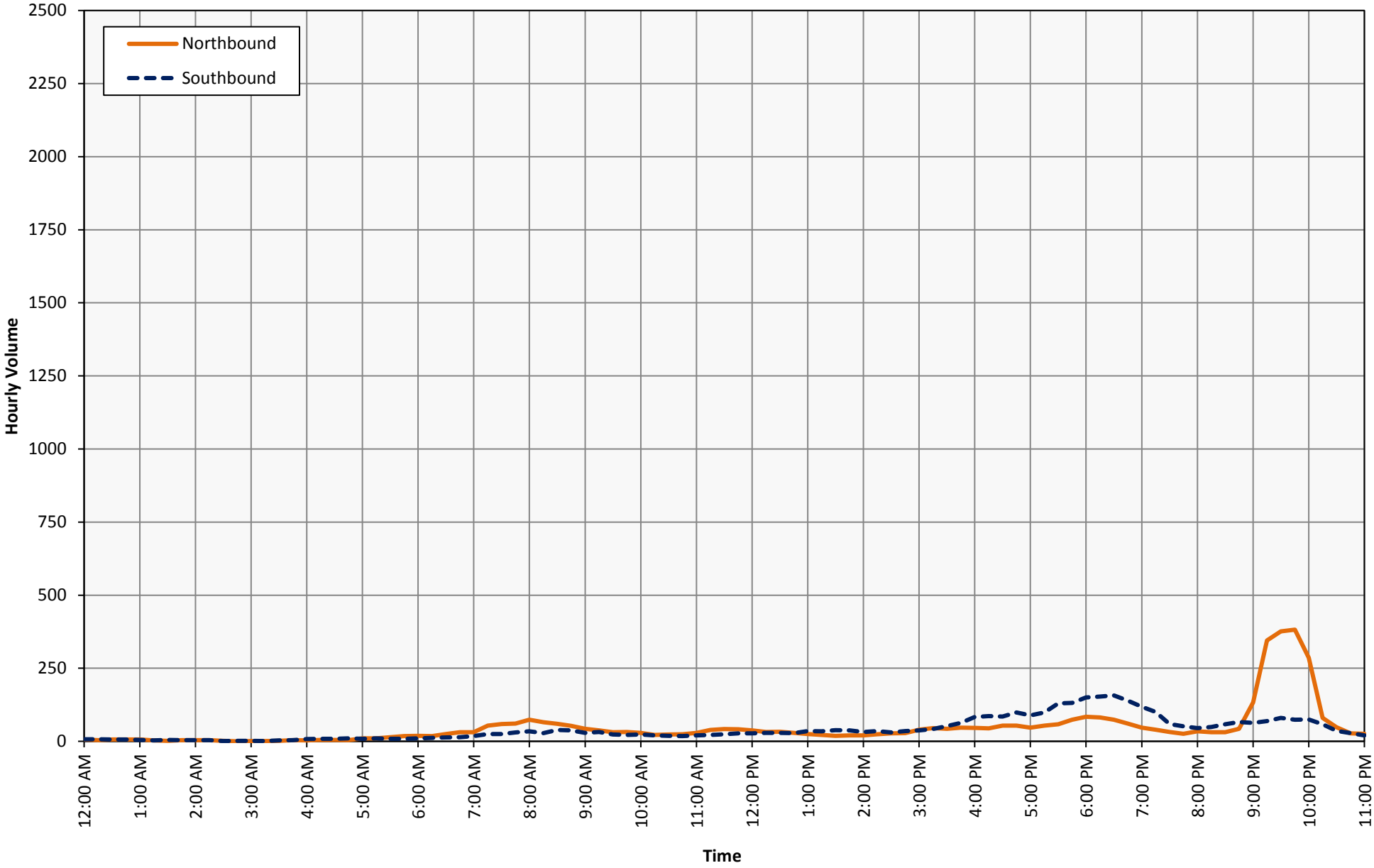


Weekday Hourly Volumes
Islanders vs. Rangers: Tuesday, October 29, 2013. 7:00 PM Start

04/09/2015

James Doolittle Boulevard

Between Charles Lindbergh Boulevard and Hempstead Turnpike



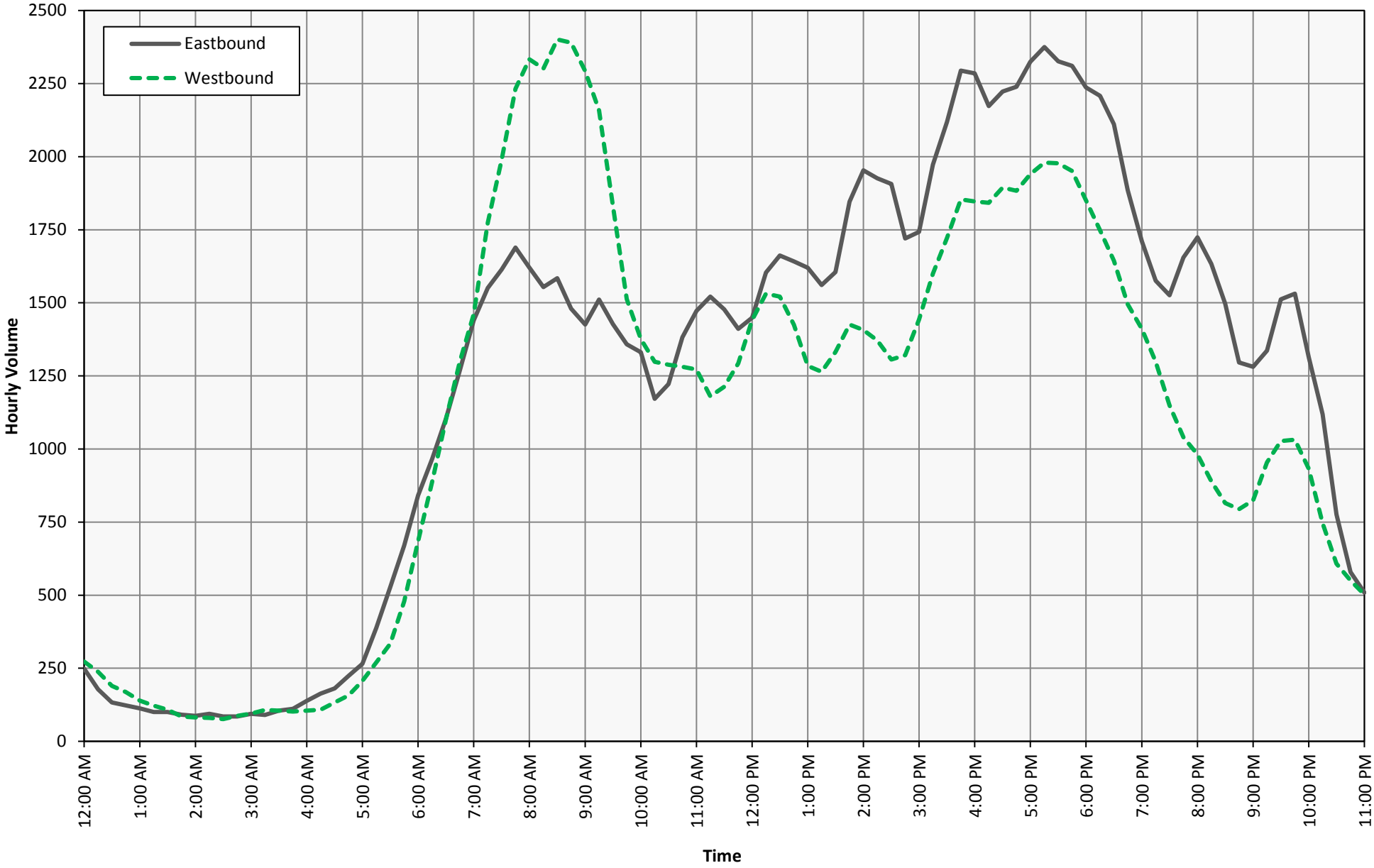
NASSAU EVENTS CENTER PROJECT

Figure 39

Weekday Hourly Volumes
Islanders vs. Rangers: Tuesday, October 29, 2013. 7:00 PM Start

Hempstead Turnpike

Between Earle Ovington Boulevard and James Doolittle Boulevard

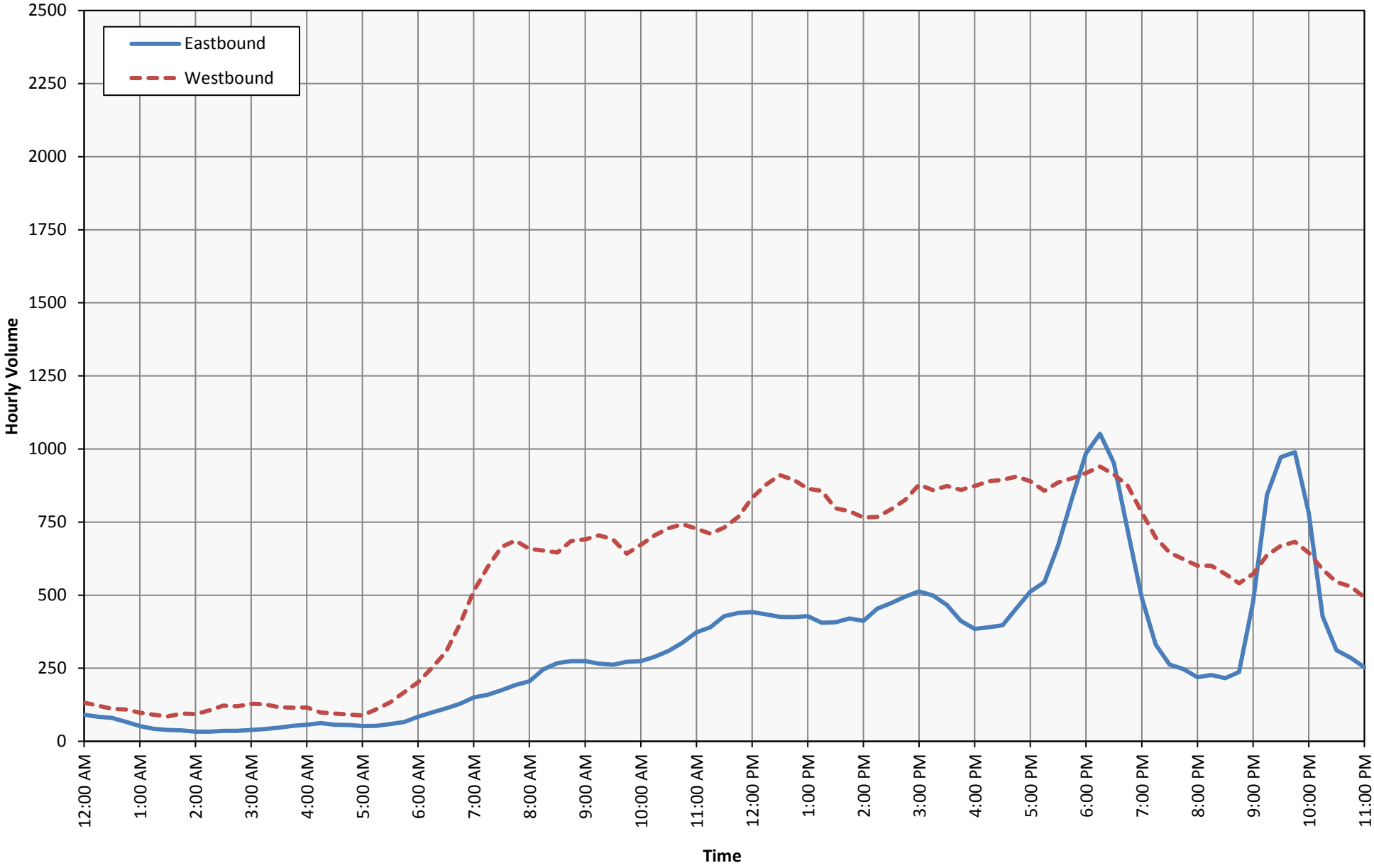


04/09/2015

Saturday Hourly Volumes
Islanders vs. Bruins: Saturday, November 2, 2013. 1:30 PM Start

Charles Lindbergh Boulevard

Between Earle Ovington Boulevard and James Doolittle Boulevard



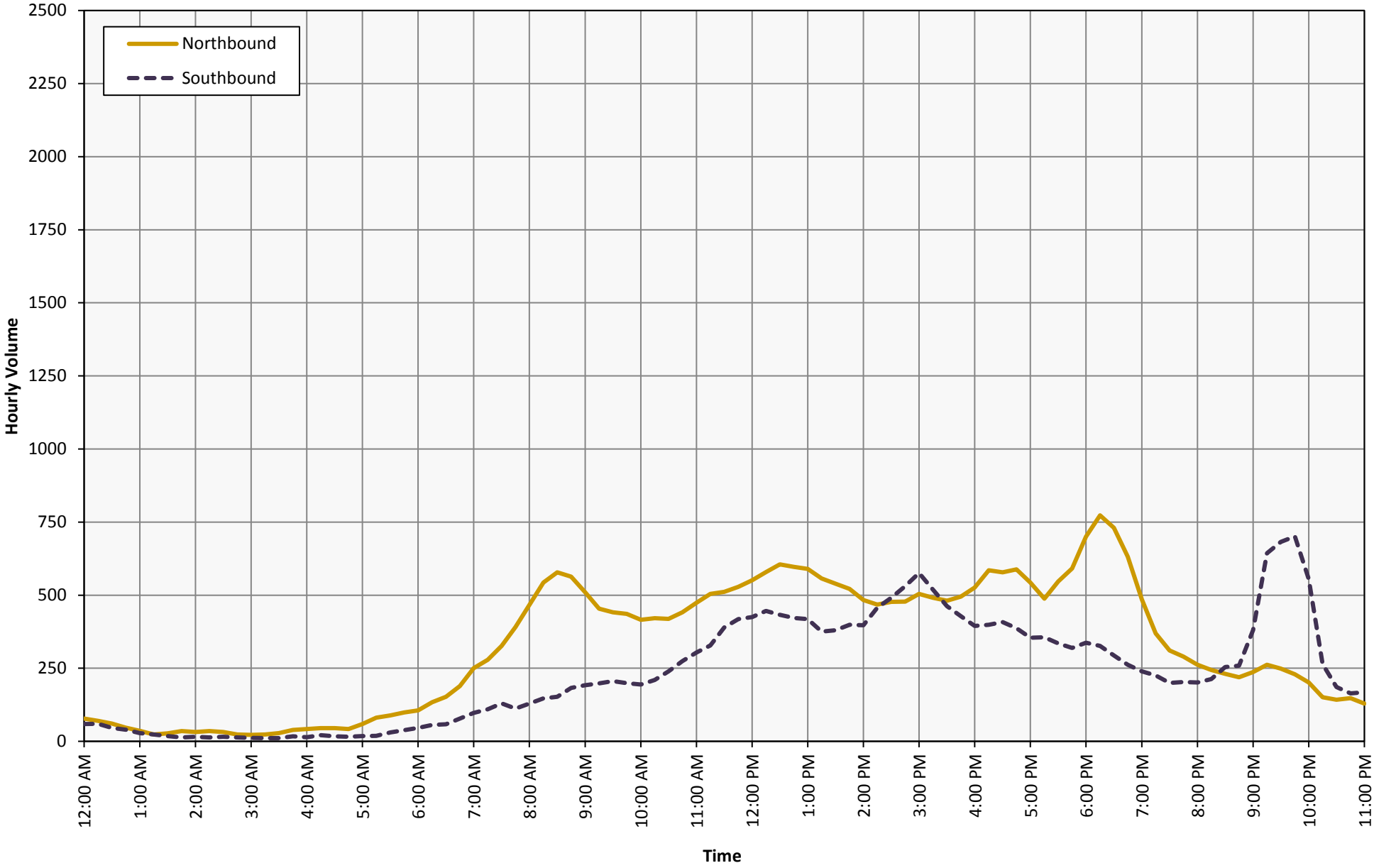
NASSAU EVENTS CENTER PROJECT

Figure 41

Saturday Hourly Volumes
Islanders vs. Bruins: Saturday, November 2, 2013. 1:30 PM Start

Earle Ovington Boulevard

Between Charles Lindbergh Boulevard and Hempstead Turnpike

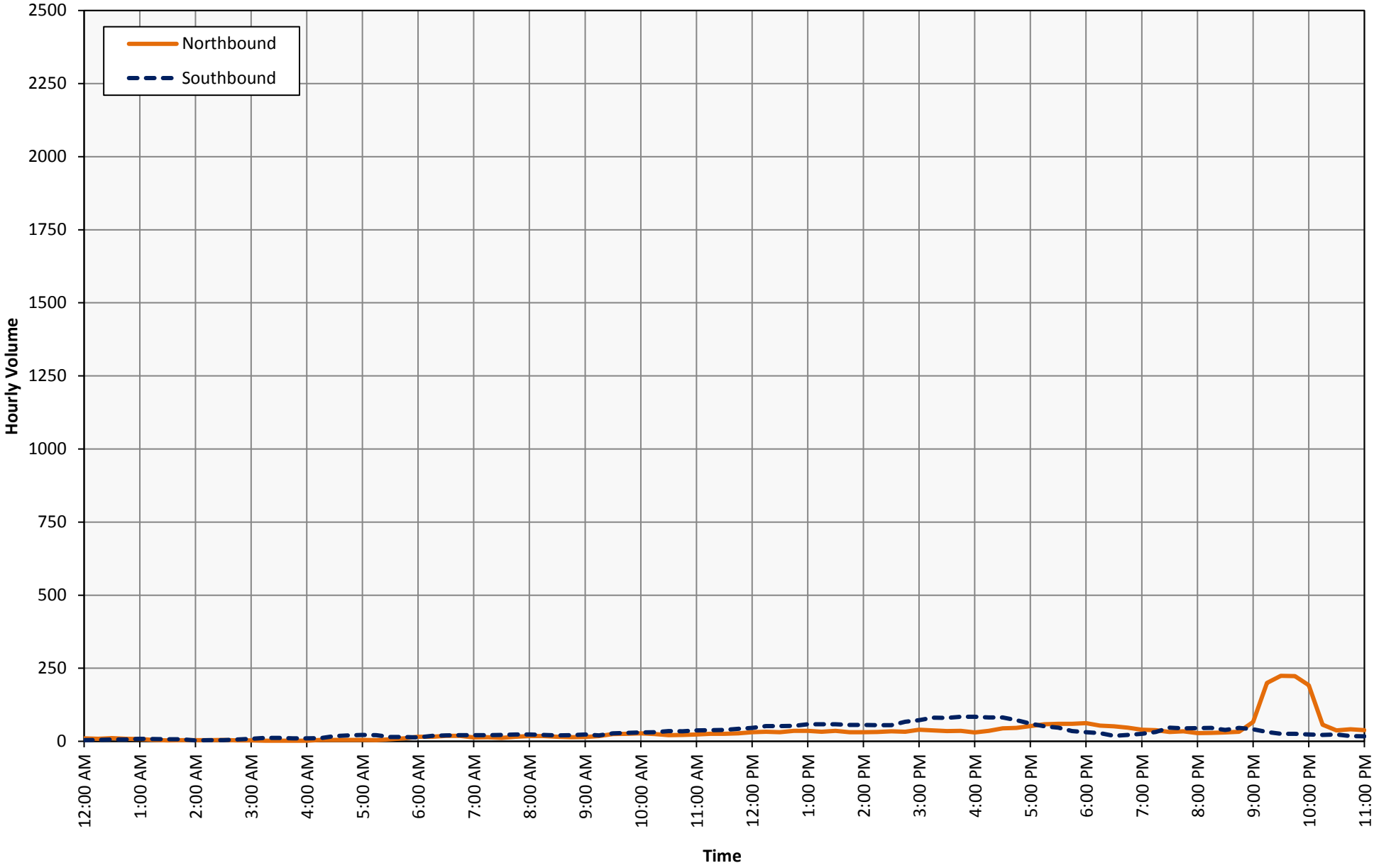


04/09/2015

Saturday Hourly Volumes
Islanders vs. Bruins: Saturday, November 2, 2013. 1:30 PM Start

James Doolittle Boulevard

Between Charles Lindbergh Boulevard and Hempstead Turnpike



NASSAU EVENTS CENTER PROJECT

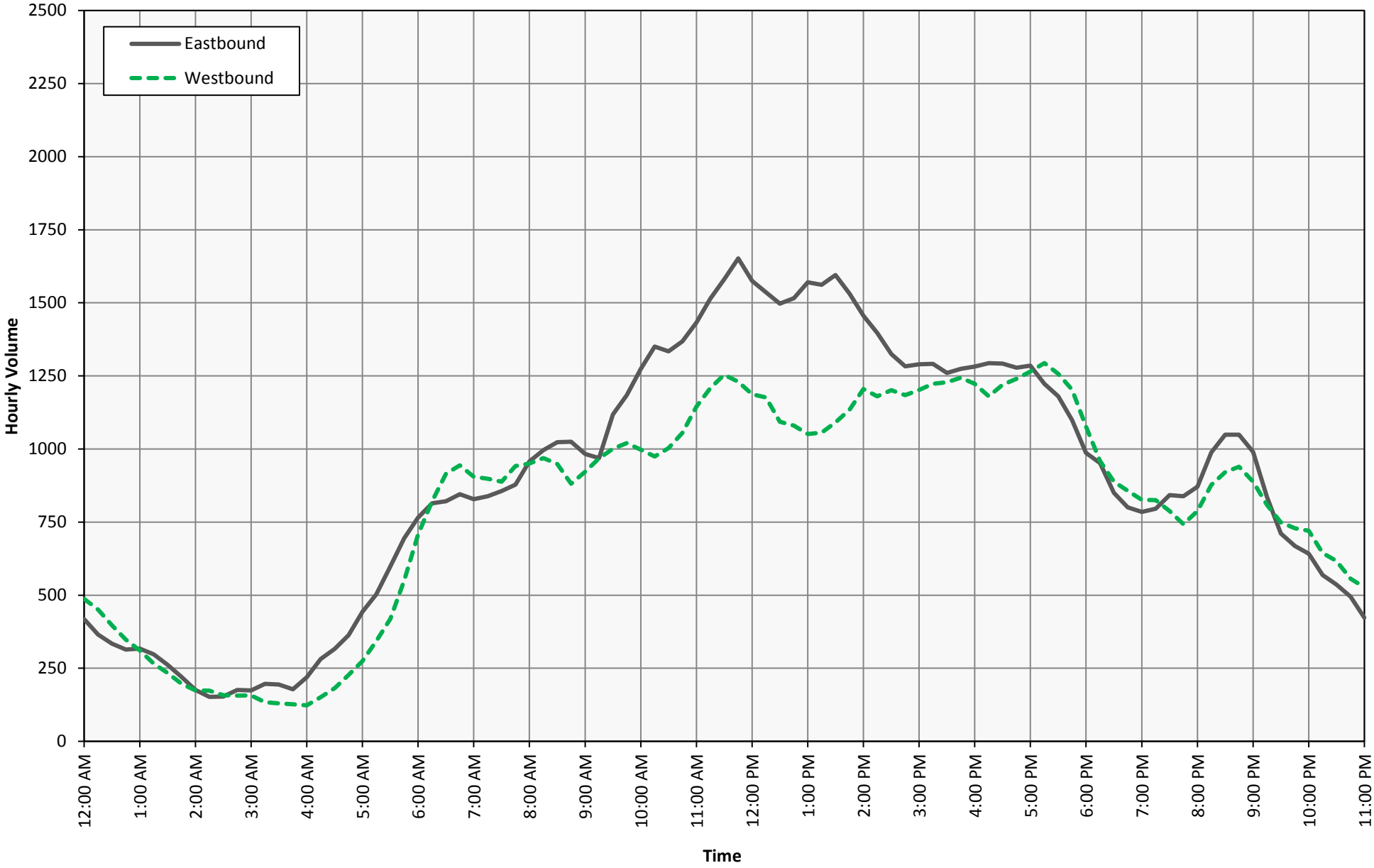
Figure 43

04/09/2015

Saturday Hourly Volumes
Islanders vs. Bruins: Saturday, November 2, 2013. 1:30 PM Start

Hempstead Turnpike

Between Earle Ovington Boulevard and James Doolittle Boulevard



NASSAU EVENTS CENTER PROJECT

Figure 44

Nassau Hub Innovation District Conceptual Master Plan

PREPARED FOR

Nassau HUB Master Developer, LLC
c/o RXR Realty LLC
625 RXR Plaza
Uniondale, NY 11556

PREPARED BY

VHB Engineering, Surveying, Landscape Architecture and Geology, P.C.
100 Motor Parkway – Suite 350
Hauppauge, NY 11788

July 2020

REVISED November 2021

EXPANDED ENVIRONMENTAL ASSESSMENT

NASSAU HUB INNOVATION DISTRICT CONCEPTUAL MASTER PLAN
UNIONDALE, TOWN OF HEMPSTEAD
NASSAU COUNTY, NEW YORK

PROJECT LOCATION: Approximately 71.6 acres located north of Hempstead Turnpike, south of Charles Lindbergh Boulevard, east of Earle Ovington Boulevard and west of the Long Island Marriott Hotel and James Doolittle Boulevard

TAX MAP NUMBERS: Nassau County Tax Map: Section 44, Block F, Lots 351, 411, 412 and 415

APPLICANT: Nassau HUB Master Developer, LLC
c/o RXR Realty LLC
625 RXR Plaza
Uniondale, NY 11556

Contact: Jeffrey D. Forchelli, Esq.
Forchelli Deegan Terrana
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(516) 248-1700

LEAD AGENCY: Town of Hempstead Town Board
1 Washington Street
Hempstead, New York 11550

PREPARER & CONTACT: This Expanded Environmental Assessment was prepared by:

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Patrick Lenihan, Director of Transportation
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With Input from:

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Civil Engineering
R&M Engineering
50 Elm Street
Huntington, NY 11743

Landscape Architecture
Martha Schwartz Partners
180 Midwood Street
Brooklyn, NY 11225

Parking Design
Walker Consultants
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New York, NY 10018

Pre-Construction Management
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New York, NY 10041

Traffic Management
Sam Schwartz Traffic Consultants
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New York, NY 10001

Project Attorney
Forchelli Deegan Terrana
333 Earle Ovington Boulevard, Suite 1010
Uniondale, NY 11553

DATE OF PREPARATION: **July 2020**
REVISED November 2021

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List of Abbreviations

AADT	Average annual daily traffic count
ADT	Average daily traffic
ACM	Asbestos-containing material
AFS	Air Facility System
agl	Above grade level
ALIS	Accident Location Information System
ANSI	American National Standards Institute
ATR	Automatic Traffic Recorders
bgs	Below grade surface
BMPs	Best Management Practices
BRT	Bus rapid transit
BZO	Building Zone Ordinance
CAA	Clean Air Act
CAAA	1990 U.S. Clean Air Act Amendments
CBA	Community Benefits Agreement
CBAC	Community Benefits Advisory Committee
cf	Cubic feet
CHASP	Construction Health and Safety Plan
CLPCPA	Climate Leadership and Community Protection Act
CM	Construction Manager
CMP	Conceptual Master Plan
CO	Carbon monoxide
Covanta	Covanta Hempstead Waste-to-Energy Facility
cy	Cubic yards
dB	Decibels
DGEIS	Draft Generic Environmental Impact Statement
DPA	Development Plan Agreement
EA	Environmental Assessment
EAB	Emergency Ambulance Bureau
EAF	Environmental Assessment Form
EEA	Expanded Environmental Assessment
EMS	Emergency Medical Service
EMT	Emergency Medical Technician
Engie	Nassau Energy Corporation
EPA	Environmental Protection Agency
EPM	Environmental Procedures Manual
ERM	Environmental Remediation Database
ESA	Environmental Site Assessment
ESDC	Empire State Development Corporation

FAR	Floor area ratio
FB	Full Build
FGEIS	Final Generic Environmental Impact Statement
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
GEIS	Generic Environmental Impact Statement
GHG	Greenhouse gases
GP	General Permit
gpd	Gallons per day
HASP	Health and Safety Plan
HCM	Highway Capacity Manual
HCS	Highway Capacity Software
HFC	Hydrofluorocarbons
HUD	Housing and Urban Development
HVAC	Heating, air conditions and ventilation
HWR	Hazardous Waste Registry
ITE	Institute of Transportation Engineers
lb	Pound
LBP	Lead-based paint
Ldn	Day-night average sound level
Leq	Equivalent sound level
LDG	Lighthouse Development Group
LIRR	Long Island Rail Road
Lmax	Maximum sound level
LOS	Level of service
LUC	Land Use Code
MFM	Mitchel Field Mixed-Use
MFO	Mitchel Field Office
MFWSA	Mitchel Field Water Supply Area
Mgd	Million gallons per day
Mgy	Million gallons per year
MSDS	Material Safety Data Sheets
MSK	Memorial Sloan Kettering
MSKCC	Memorial Sloan Kettering Cancer Center
NAAQS	National Ambient Air Quality Standards
NCC	Nassau Community College
NCDH	Nassau County Department of Health
NCDPW	Nassau County Department of Public Works
NCIDA	Nassau County Industrial Development Agency
NCPD	Nassau County Police Department
NEC	Nassau Events Center
NHP	Natural Heritage Program
NIOSH	National Institute of Occupational Safety & Health
NICE	Nassau Inter-County Express

NO	Nitrogen oxide
NO_2	Nitrogen dioxide
NPDES	National Pollutant Discharge Elimination System
NYCB	New York Community Bank
NYMTC	New York Metropolitan Transportation Council
NYSDEC	New York State Department of Environmental Conservation
NYSDOT	New York State Department of Transportation
NYSED	New York State Education Department
NYSERDA	New York State Energy Research and Development Authority
OPD	Other planned development
OSHA	Occupational Safety & Health Administration
O_3	Ozone
Pb	Lead
PCB	Polychlorinated biphenyl
PDD	Planned Development Districts
PILOT	Payment-in-lieu-of-taxes
PM	Particulate matter
PPM	Parts per million
PSAC	Public school-aged children
QAQPS	Office of Air Quality Planning and Standards
R&D	Research and Development
RCRA	Resource Conservation and Recovery Act
REI	Real Estate Institute
RFEI	Request for expressions of interest
RFWD	Roosevelt Field Water District
SF	Square foot (square feet)
SEQRA	State Environmental Quality Review Act
SPDES	State Pollutant Discharge Elimination System
SWPPP	Stormwater Pollution Prevention Plan
SO_2	Sulfur dioxide
TBR	Town Board Resolution
TIS	Traffic Impact Study
TIP	Transportation Improvement Program
TSP	Total suspended particles
UFD	Uniondale Fire District
UFSD	Union Free School District
USEPA	United States Environmental Protection Agency
UST	Underground storage tank
UWD	Uniondale Water District
VDR	Verbal Description Reports
VMT	Vehicle miles traveled
VRF	Variable refrigerant flow
VOCs	Volatile organic compounds
WPCP	Water Pollution Control Plant

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1

Introduction/Project Description

1.1 Introduction and Site History

This document is an Expanded Environmental Assessment (Expanded EA) for the Proposed Action, which consists of an application by Nassau HUB Master Developer LLC (hereinafter the "Applicant") for modification of an existing Conceptual Master Plan (CMP) to permit the redevelopment of the approximately 71.6 acres surrounding NYCB Live: Home of the Nassau Veterans Memorial Coliseum ("NYCB Live" or the "Nassau Coliseum") as the Nassau Hub Innovation District. The Nassau Hub property (the "Subject Property), which is situated within the Town of Hempstead's Mitchel Field Mixed-Use zoning district (MFM District), is located within the hamlet of Uniondale, Town of Hempstead (Town), Nassau County (Figure 1). The Subject Property is designated on the Nassau County Land and Tax Map as Nassau County Tax Map: Section 44, Block F, Lots 351, 411, 412 and 415 (Figure 2).

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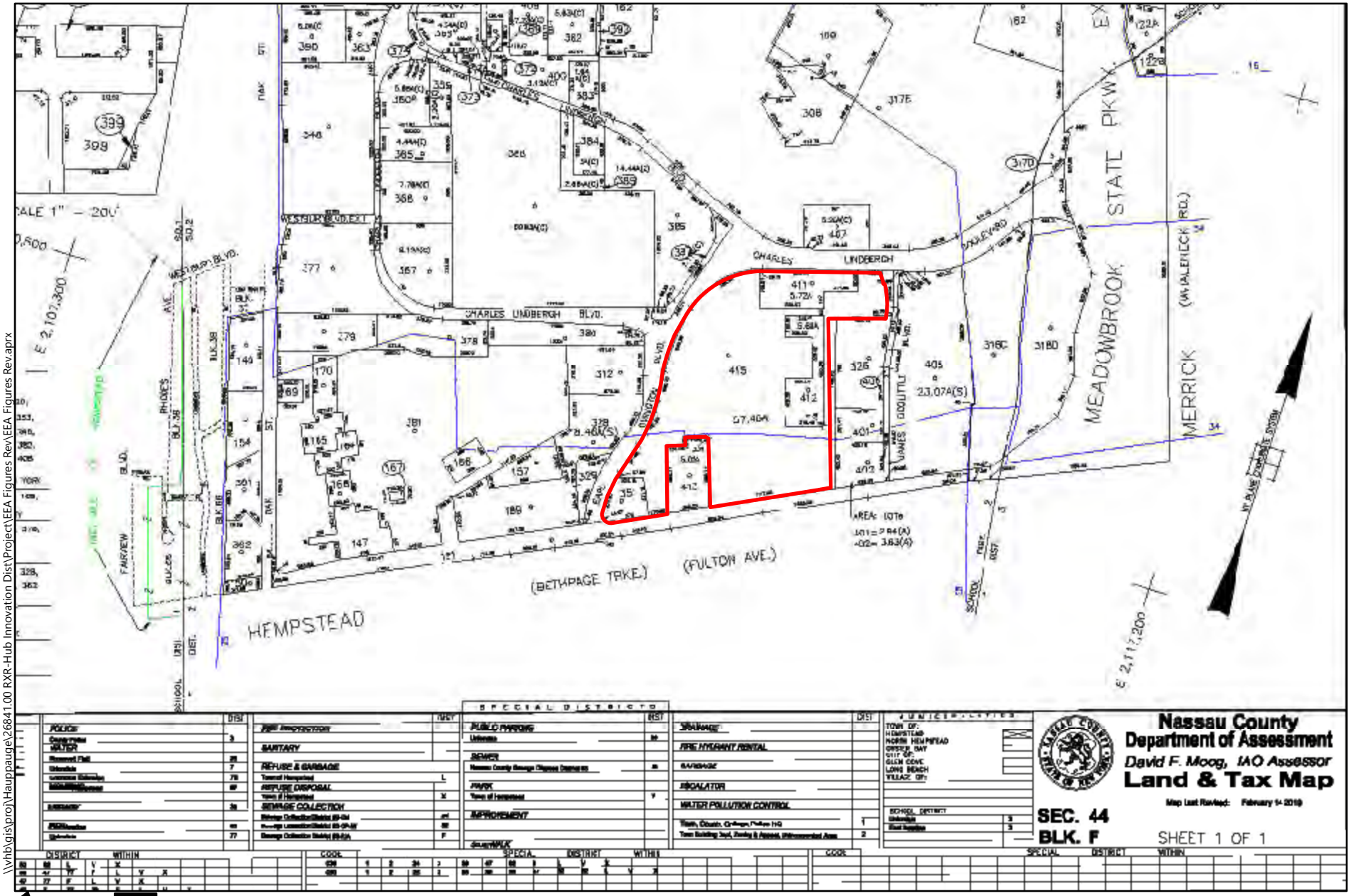
Nassau Hub Innovation District | Town of Hempstead, Nassau County

Site Location
Hamlet of Uniondale

Sources: NYS Ortho Imagery (2016);
NYS Civil Boundaries, NYS Office of Information Technology Services GIS Program Office (GPO)



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Nassau Hub Innovation District | Town of Hempstead, Nassau County

Subject Property

Tax Map
Hamlet of Uniondale

Source Info: Nassau County Department of Assessment;
Land & Tax Map, February 14, 2019.

In December of 2018, a Development Plan Agreement (DPA) between Nassau County and the Applicant/Developer, RXR Realty/Onexim Sports and Entertainment (d/b/a Nassau Hub Master Developer LLC), was approved for the Applicant to pursue development of the approximately 71.6-acre Subject Property to fulfill the County's vision of a mixed use innovation center. The 71.6-acre Subject Property, which includes the Nassau Coliseum and surrounding parking areas, is situated north of Hempstead Turnpike, south of Charles Lindbergh Boulevard, east of Earle Ovington Boulevard and west of the Long Island Marriott Hotel and James Doolittle Boulevard. The Subject Property's proximity to educational, cultural, athletic and business establishments, including Museum Row, Mitchel Field Athletic Complex, Hofstra University and Hofstra's medical school, Nassau Community College and other research and medical facilities (including the adjacent, off-site Memorial Sloan Kettering Cancer Center [MSKCC]), makes it an ideal location for an innovation center.

1.1.1 Site/Project History

The Nassau Hub has been the subject of prior proposals and State Environmental Quality Review Act (SEQRA) processes, which are relevant to the environmental review of the proposed CMP. A brief history follows.

In early 2006, the Lighthouse Development Group (LDG) was chosen by Nassau County to redevelop approximately 150 acres surrounding the Nassau Coliseum (including the Long Island Marriott, RXR Plaza and The Omni properties). In 2009, a Draft Generic Environmental Impact Statement (DGEIS) for The Lighthouse at Long Island was prepared by LDG and accepted by the Town of Hempstead Town Board for proposed new zoning and development consisting of a new coliseum for the New York Islanders NHL team (total of 1.2 million SF, of which 416,000 SF is existing), 2,306 residential units, 500,000 SF of retail, 1,000,000 SF of new office space (in addition to the existing 1.6 million SF), 118,000 SF of new convention/exhibition space (in addition to the existing 82,000 SF), 300 new hotel rooms (in addition to the 617 existing rooms) and structured parking.

Subsequent to public review of the aforesaid DGEIS, a Final Generic Environmental Impact Statement (FGEIS) was filed by the Town of Hempstead Town Board for a newly-proposed Mitchel Field Mixed Use (MFM) District. The proposed MFM District, analyzed in the FGEIS, significantly reduced the development potential at and around the Subject Property and surrounding sites from that proposed by LDG.[1]

[1] The Lighthouse/MFM DGEIS and FGEIS also included the adjacent Marriott Hotel, RXR Plaza and Omni properties.

A Findings Statement for the Lighthouse/MFM District (formally known as the *Findings Statement for the Application for Building Zone Ordinance Amendments, Rezoning of Certain Parcels and Approval of a Comprehensive Master Plan for Development of the Lighthouse at Long Island, Hamlet of Uniondale, Town of Hempstead New York and cited herein as "MFM Findings Statement"),* was prepared in early 2011, and the Town of Hempstead adopted the MFM Zoning District, which became effective June 2011.

In 2013, the County issued an RFP for the redevelopment of the Nassau Coliseum. Nassau Events Center (NEC) was selected as the new operator of the Coliseum and entered into a lease with Nassau County for the project site. In 2015, NEC, prepared a CMP for the redevelopment of the Nassau Coliseum and the surrounding 77 acres,[2] owned by Nassau County and known as the Nassau Hub, which was in general accordance with the MFM District. The NEC CMP-proposed development included a renovated coliseum and exhibition hall (no change in square footage), a 1,500-seat cinema, 385,000 SF of retail, 200,000 SF of restaurants, 675,000 SF of office, 350,000 SF of convention/banquet spaces, 1,843 hotel rooms (including the Marriott Hotel) and structured parking. No residential units were proposed as part of this CMP.

The NEC CMP was approved by the Town of Hempstead Town Board in May 2015 under Town Board Resolution (TBR) 642-2015 (see Appendix A). The approved NEC CMP modified the requirement for conformity with Article XIII, Section 146.1(O)(3) "Establishment of Public rights-of-way" and Section 146.1(O)(4) "Complete Streets" of the Building Zone Ordinance of the Town of Hempstead, resulting in changes to:

- Width of public rights-of-way of the interior roadways
- Certain elements of the "Complete Streets" requirements in conjunction with the modifications of the public rights-of-way of the interior roadways (e.g., the width and location of certain planted medians, the provision of on-street bicycle lanes, on-street parallel parking, pedestrian walkways on both sides of the interior roads).

To date, NEC has renovated the Nassau Coliseum and immediately surrounding area (i.e., plaza space); however, the 188,000 SF of retail, restaurant and entertainment amenities, contained in the first phase of development (NEC Phase I Plan), which was approved by the Town Board on September 21, 2015 under TBR 1147-2015 and amended on February 21, 2017 under TBR-261 2017[3] (see Appendix A) and contemplated for 11 acres of the original 77 acres and covered by a separate lease between the County and another owner, have not been constructed. Accordingly, Nassau County terminated the lease for redevelopment of those 11 acres in 2018 and recaptured those acres. The terms and conditions of the Restated Coliseum Lease remain in full force and effect. Additionally, Nassau County has also sold approximately five acres of the total 77 acres, situated south of the Nassau

[2] This acreage included the Coliseum parcel, the Marriott parcel and the MSKCC parcel only.
[3] This amended site plan related to changes in signage dimensions, placement, etc.

Coliseum, east of Earle Ovington Boulevard and north of Hempstead Turnpike, to MSK, which developed a cancer treatment center and parking garage.

Based on the foregoing, in its desire to leverage the newly-renovated Nassau Coliseum and the property's prominent location, in June 2018, Nassau County issued a request for expressions of interest (RFEI) regarding the redevelopment of the 71.6-acre Nassau Hub (excluding the Marriott Hotel parcels). Based on the Subject Property's proximity to a number of educational, cultural, athletic and business establishments, as noted, Nassau County's vision is to create a new Nassau Hub Innovation District encompassing a mixed-use development comprising one or the following uses at the site:

- Corporate employer in the life sciences and bio research area
- Entertainment, exhibition, trade show, public gathering uses to complement the Coliseum, which could include a new hotel and/or convention center at the site
- Retail, restaurant, sports bar, or experiential entertainment
- Multi-type housing options
- Transportation to and within the site.

Moreover, the County expressed interest in promoting ideas for enhancing mobility, access to green space and sustainability. Nassau County's goals, as defined in the RFEI were as follows:

- Foster collaboration among existing and new academic, medical, and research institutions
- Tap into the region's highly skilled workforce and create high-paying knowledge industry jobs that grow the biotech and high-tech industries
- Incorporate complementary mixed-use development and amenities, with on-site residential housing
- Prioritize sustainability and mobility by incorporating robust transit services, walkable streets, public green space and green building technologies
- Create a synergistic physical environment which embraces a range of daytime and evening activities, building on the success of the Coliseum and promoting the notion of live-work-play.

RXR, a member of the Applicant, responded to the County's RFEI, and included information regarding a partnership with Onexim, NEC's parent company to carry out the future development. Concurrently, NEC notified Nassau County of its interest in pursuing development of the Subject Site through the terms of its lease, described below, and submitting a general plan for the design, development, financing, construction and operation of a Nassau Hub Innovation District in partnership with RXR. The developer for the extant application is known as the Nassau Hub Master Developer LLC, who is the Applicant, along with Nassau County.

In December 2018, subsequent to the RFEI response, a Development Plan Agreement (DPA) was executed between Nassau County and the Nassau Hub Master Developer LLC regarding the development of the property surrounding the

Coliseum. Under the Restated Coliseum Lease,[4] NEC has the right to develop the excess parking areas on the Hub site that are not necessary for the operation of the Coliseum. Execution of the DPA does not modify or waive any of the terms of the Restated Coliseum Lease, all of which are unchanged and remain in full force and effect, as noted above.

A summary table listing some of the milestone/event dates in the site's development history and the current status of the application is presented below.

Table 1 – Summary of Site Development History

Milestone/Event	Year
Former 1,100±-acre Air Force Base at Mitchel Field Established	1917
Mitchel Field Closed and Turned Over to Nassau County	1961
Planned Development at Mitchel Field Created by Town of Hempstead	1971
Nassau Coliseum Constructed and Opened	1972
Nassau County Issuance of RFP for Redevelopment of Site	2005
Lighthouse Development Group (LDG), a joint venture between Charles Wang (former Islanders owner) and RexCorp Realty LLC, selected by Nassau County to redevelop the subject property, amongst other adjacent properties (e.g., Marriott, RXR Plaza, The Omni)	Early 2006
MOU between LDG and Nassau County to develop the property around the Coliseum	Late 2006
Draft Generic Environmental Impact Statement (DGEIS) for The Lighthouse at Long Island (proposed new zoning district and development) accepted by the Town of Hempstead Town Board	2009
Final Generic Environmental Impact Statement (FGEIS) filed by the Town of Hempstead for The Lighthouse at Long Island and a newly-created Mitchel Field Mixed Use (MFM) District, which significantly reduced the amount of development permitted at the Nassau Coliseum Site	2011
MFM Findings Statement adopted by Town Board for The Lighthouse/MFM Zoning District	2011
MFM Zoning District (part of the Planned Development at Mitchel Field zoning district) adopted by Town Board	2011
Nassau County issued RFP for the renovation and operation of the Nassau Coliseum	2013
NEC entered into a lease agreement (and amended lease agreement) with Nassau County to develop Nassau Coliseum and surrounding acreage	2013 (2015)

[4] The Restated Coliseum Lease refers to the fact that the Original Ground Lease by the County to NEC was separated into two separate leases for portions of the Original Coliseum Site: (1) an Amended and Restated Coliseum Lease by and between the County and NEC for a portion of the Original Coliseum Site comprising approximately 66 acres of land, less approximately five acres subsequently severed from the Original Coliseum Site [that acreage having been sold to MSK] and the Coliseum building, and (2) and Amended and Restated Plaza Lease between the County and NEC Plaza, LLC for a portion of the Original Coliseum Site comprising approximately 11 acres of land pursuant to which NEC Plaza, LLC was obligated to build the retail and entertainment amenities described in the Restated Plaza Lease as the Coliseum Plaza Improvements. Since the retail and entertainment amenities were not constructed per the Restated Plaza Lease, it was terminated in 2018 and Nassau County recaptured the 11 acres comprising the Plaza Site.

Milestone/Event	Year
NEC CMP approved by Town Board Resolution (TBR 642-2015), modifying certain aspects of MFM zoning district NEC Phase I Site Plan Approval for 188,000 SF (TBR 1147-2015)	2015
NEC Phase I Amended Site Plan Approval (TBR 261-2017)	2017
NEC completed renovation and re-opened Nassau Coliseum	2017
Nassau County issued the Nassau Hub Innovation District RFEI	2018
Development Plan Agreement executed between Nassau County and Nassau HUB Master Developer LLC (a special purpose entity formed as a joint venture between affiliates of Onexim [formerly BSE Global] and RXR Realty Investments LLC)	2018
Memorial Sloan Kettering Cancer Center opened on 5± acres adjacent to the 71.6-Acre Subject Property	2019
Petition to amend the 2015 NEC CMP, proposed CMP and Part 1 – EAF submitted to the Town of Hempstead for proposed project	December 24, 2019

1.2 Project Description

As explained in greater detail in Section 1.1, entitled *Introduction and Site History*, in 2018, in accordance with the DPA, the Applicant assembled a team of architects, planners and engineers and other professionals and has reached out to the community for input on a plan to realize Nassau County vision for the creation of the Nassau Hub Innovation District. The vision is a state-of-the-art development at the Hub for the 21st century with the theme of "Innovation Everywhere." The ultimate development will be the product of innovative, forward-thinking planning -- including the commercial, residential and retail spaces of the development, the community outreach process, design and development phases, infrastructural decisions around transportation, sustainability, energy efficiency, accessibility of the project, and, most importantly, how it will create the infrastructure of opportunity for the surrounding communities.

With a truly mixed-use development program including the ingredients for a sustainable and rich innovation district – cutting edge life sciences, research and development offices and makerspaces, entertainment and experiential retail, new multifamily living concepts, hotels and destination public open space – the Nassau Hub Innovation District would be designed to create opportunities on-site and for the surrounding communities.

The five elements that serve as the guiding principles for "Innovation Everywhere" were based on review of such districts across the country and are as follows:

› **Connected Destination** – Provide clear and intuitive access to the wider community and enhance visibility to create a clear identity for the project.

- **Walkable Environment** – Ensure the development is comfortable to walk through and activated at the street level.
- **Diverse and Flexible** – Create the right mix to attract a diverse audience and ensure adaptability to response to future market needs.
- **Community Engagement** – Understand the community's wants and needs and provide relevant and meaningful amenities that responds.

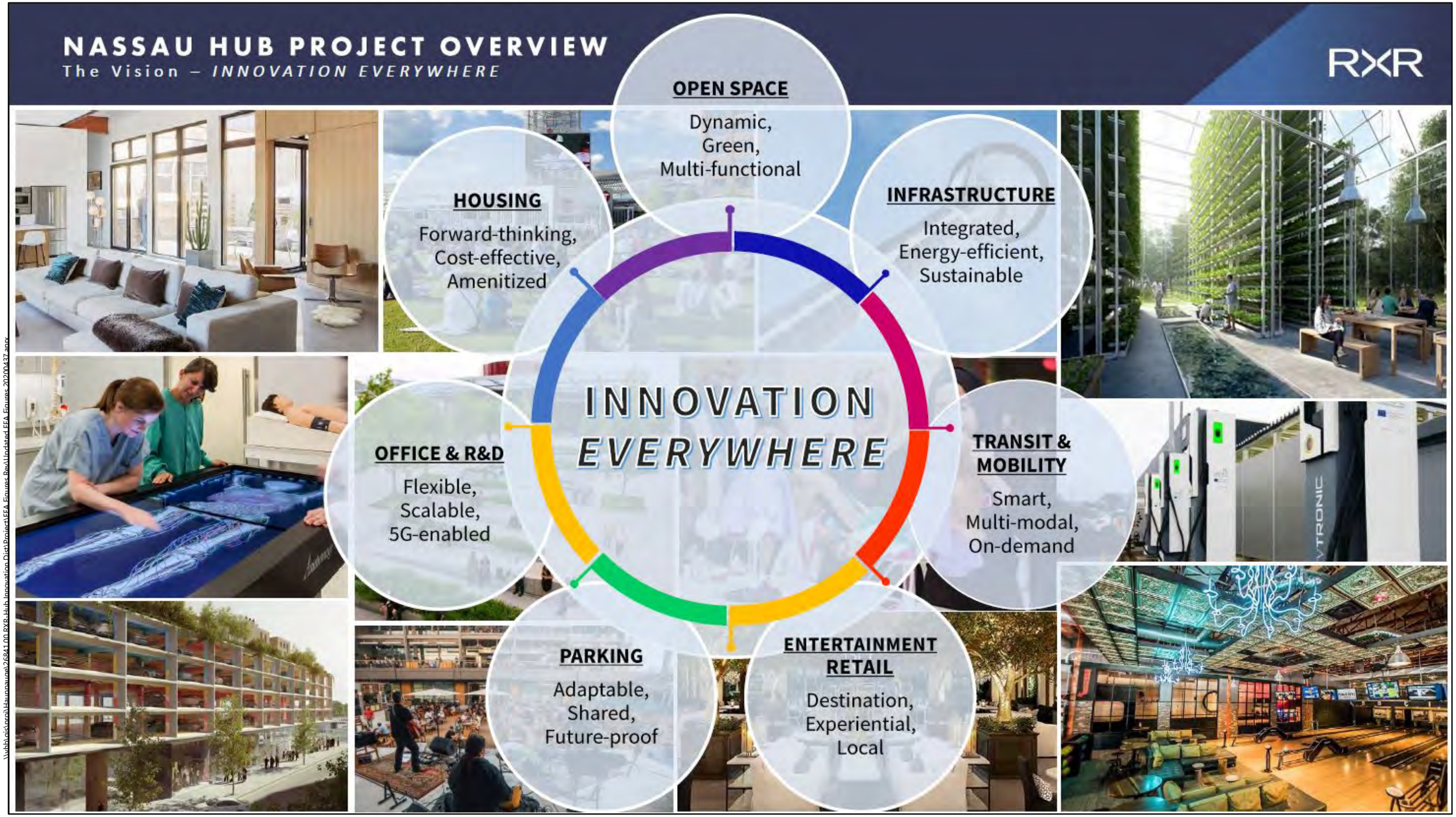
  Extended Play – Take an inside-out approach, developing 18-hour sports and entertainment districts anchored by sports and entertainment facilities.

Figure 3 provides a general overview of the Innovation Everywhere concept. The subsections below provide more detailed discussions of innovation concepts that are being considered for the Nassau Hub Innovation District.

One of the central tenets of the proposed project is built upon the existing sports and entertainment anchor to create a mixed-use project that will become an employment generator, providing economic prosperity, new jobs and longevity through the multiple frameworks of land use, urban design, open space and mobility.

Land Use Strategy – provide opportunities and services within a short walking distance of where people live and work, and activate these spaces over an extended period. The architecture and landscape design will incorporate several tactics: layering uses to create more diversity in less space and facilitate connections; activating the ground floor in the public realm (e.g., outdoor seating, restaurant terraces, transparent retail frontages); activating the first floor by extending the public realm vertically (use of landscaping); creating retail kiosks (human scale, promote active outdoor uses); and providing mixed-use buildings containing varied housing options, including multifamily rentals. The Applicant is also considering the potential inclusion of co-living units as part of the residential development (see below for additional details on the contemplated residential development).

Open Space Strategy – create a network of public spaces that serve multiple purposes connected by activated streetscape. Tactics: Gathering spaces to accommodate both large and small events (e.g., pop-out furniture, smart street elements to maintain flexibility); rooftop parks (raise public realm to higher level); parks and plaza to respond to area character (e.g., pocket parks, hardscape, greenery, water management systems); special features (e.g., art installations, water features).



Nassau Hub Innovation District | Town of Hempstead, Nassau County

Innovation Everywhere
Hamlet of Uniondale

Source: RXR

Mobility Strategy – create a walkable environment by prioritizing pedestrians and bicycle movement while calming vehicular traffic. Tactics: pedestrian safe, accessible, active, vibrant and connected realm (shade, shelter, seamless connection); protected and share bike lanes, connection with surrounding bike network; locate existing transit routes and stops, plan for future bus rapid transit (BRT); innovative technology to manage street closures, speed adjustment, curbside management, wayfinding.

Urban Design Strategy – create an active streetscape with ground-level experiences, extend outdoor space into the public realm. Tactics: Enhance area centers by giving them an iconic character that represents there zones and creating seamless connections between them; define open spaces and access points with unique character (pavement patterns, iconic architecture); design active frontages (permeable facades); articulate edge character by enhancing edges connected with surrounding activity and provide "mitigating" strategies for edges with low activity.

The Proposed Action consists of the amendment of NEC's CMP, which was developed under the Restated Coliseum Lease (see Footnote 3) and approved by the Town of Hempstead in 2015. The proposed CMP contains similar development components that were included in the 2015 NEC CMP and is reflective of the uses analyzed in the MFM FGEIS and memorialized in the MFM Findings Statement, as shown by the analysis program. The proposed project is consistent with the spirit and intent of the MFM District, as shown in Table 2.

Table 2 – Zoning Compliance

Code Section	Item	Required/Permitted	Provided	Notes
§ 146.1.F	Floor Area Ratio (FAR)	1.6	1.6	
§ 146.1.H(1)	Building Height Non-Residential Buildings >2 Ac. & 100' Lot Depth Residential & Mixed Use Bldgs.	4 sty. / 60 ft max. 4 sty. / 60 ft max.	8 sty. / 100 ft. 8 sty. / 100 ft.	Modification Required – See Below
§ 146.1.H(2)	Hotel Building Height	100 ft max.	100 ft.	
§ 146.1.H(3)	Parking Structure Height	40 ft max.	46 ft.	Modification Required – See Below
§ 146.1.I(1)	Front Yard Setback - For buildings up to 60 ft high	10 ft.	10 ft min.	
§ 146.1.J	Rear Yard Setback	10 ft. + 5 ft for each addt'l. 10 ft above 40 ft in hgt.	N/A	
§ 146.1.K	Yards: For buildings greater than 60 ft high For buildings greater than 80 ft high For buildings greater than 100 ft high	20 ft. + 1 ft. for each addt'l. 3 ft above 60 ft in hgt. 26 ft – 8 in. 33 ft- 4 in.	N/A 27 ft 34 ft	
§ 146.1.L(1)	Parking Provided	13,488 Spaces (total of individual Code requirements based on uses)	6,750 spaces	See Shared Parking Analysis
§ 146.1.L(2)	Parking Provided within 300 ft of parcel		6,000 spaces	At RXR Plaza and Omni Bldgs.
§ 146.1.L(6)	Parking Setback	15 ft.	15 ft.	
§ 146.1.M	Loading Required	13 Spaces	13 Spaces	
§ 146.1.N(1)	Number of Residential Units	500 units	500 units	
§ 146.1.N(2)	Percentage of affordable and/or next generation/workforce housing units	20% (100 units)	20% (100 units)	
§ 146.1.N(3)	Residential Building Area	35% of Area	24%	
§ 146.1.N(10)	Residential Open Space	500 sf per unit = 250,000 sf	265,000 sf	

Code Section	Item	Required/Permitted	Provided	Notes
§ 146.1.O(2)	Public Open Space	3% of Net Land Area = 78,978 sf	85,600 sf	
§ 146.1O(3)(a)	R.O.W.: East Drive	120 ft wide required N-S, Glen Curtiss Blvd to Charles Lindbergh Blvd (Easterly N/S Road)	90 ft.	90 ft. Granted - TBR 642-2015
§ 146.1.O(3)(b)	R.O.W.: North Drive	120 ft wide required E-W, Earl Ovington Blvd to James Doolittle Blvd (Northerly E/W Road)	60 ft.	60 ft. Granted - TBR 642-2015
§ 146.1.O(3)(c)	R.O.W.: South Drive	80 ft wide required E-W,(Easterly N/S Road to Earl Ovington Blvd (Southerly E/W Road)	60 ft.	60 ft. Granted - TBR 642-2015
§ 146.1.O(3)(d)	R.O.W.: West Drive	80 ft wide required N-S, Hempstead Tpke. to Northerly E/W Road (Westerly N/S Road)	60 ft.	60 ft. Granted – TBR 642-2015
§ 146.1.C(15)	Permitted Uses	Townhouse and multi-family dwellings containing no more than six dwelling units per building.	>6 dwelling units per Bldg.	Modification Required – See Below

Where the project differs from some of the technical elements of the MFM zoning district, as shown in Table 2, the Proposed Action includes a request to the Town Board to modify select provisions of the MFM zoning district, per Section 146.1.Q(2) of the MFM District, which states:

> *[i]n the event that the Town Board approves said application, it may attach certain conditions to said approval, which conditions shall become an integral part thereof. The Town Board may, by resolution, dispense in part with conformity with the provisions applicable to the Mitchel Field Mixed-Use District and may impose safeguards and conditions as it may deem appropriate, necessary or desirable to promote the spirit and objectives of this section, including but not limited to restrictive covenants pertaining to any area within the district that is the subject of an application, including the site plan submitted on behalf of the application, together with other agreements, if any, in recordable form and running with the land.*

The following are being requested by the Applicant as part of the CMP application:

- modification of the requirements of §146.1(H)(1) to permit a height for non-residential, mixed-use commercial and residential buildings of up to eight stories and 100 feet, whereas § 146.1.H(1) permits a maximum height of 4 stories and 60 feet for such uses.
- modification of the requirements of §146.1(H)(3) to permit parking structures to reach a height of 46 feet and to increase to a permitted height of 52 feet if refuse and delivery services areas are located within the ground floor of said parking structures, whereas § 146.1(H)(30 currently permits a maximum height of 40 feet for parking garages. Also, modification under §146.1(H)(3) to exclude rooftop green infrastructure, such as solar panels and greenhouses, from the maximum permitted height calculation.
- modification of the "permitted uses" list contained in § 146.1(C). Specifically, it is requested that permitted use § 146.1(C)(15) be modified to read "residential and mixed-use residential and non-residential uses" and the limitation prohibiting more than six dwelling units per building be removed.

Also, as noted above and shown in Table 2, internal road right-of-way widths pursuant to Section 146.1.O(3) of the MFM District and as certain provisions of the "Complete Streets" requirements pursuant to 146.1.O(4) were modified or waived, by Town Board Resolution 642-2015, which approved the NEC CMP.

As shown on the current CMP, (Figure 4 and Appendix B) the anticipated development consists of a mix of residential units, entertainment retail uses, research and development space, office space, hotels and mixed-use commercial spaces. As the proposed development is in the preliminary approval phase, it is not possible to determine specific tenancies. However, for purposes of comprehensive environmental review in accordance with SEQRA and its implementing regulations at 6 NYCRR Part 617, the following analysis program has been defined for evaluation in

this Expanded EA (Table 3). While individual buildings have not yet been designed, the proposed land uses are described below.

Moreover, for purposes of a comprehensive environmental analysis, the Applicant has set forth a two-phase construction plan that would happen consecutively (see Section 1.3, below, and Section 3.11 for more detail). The actual construction schedule would be dictated by a number of factors, including weather and market demand.

Table 3 – Anticipated Development Program

Program Component	Phase I Total	Phase II Total	Total at Full Build Out
Office Space General Office Research & Development (R&D)	336,000 SF 148,000 SF 188,000 SF	614,000 SF 252,000 SF 362,000 SF	950,000 SF 400,000 SF 550,000 SF
Hotel	260 keys (186,121 SF)	590 keys (515,879 SF)	850 keys (702,000 SF)
Conference/Meeting Space	75,000 SF	100,000 SF	175,000 SF
Restaurants	2,000 seats (60,000 SF)	-	2,000 seats (60,000 SF)
Entertainment Retail	110,000 SF	40,000 SF	150,000 SF
Multiplex Cinema	600 seats (46,000 SF)	-	600 seats (46,000 SF)
Theater/Performing Arts Venue	1,000 seats (57,000 SF)	-	1,000 seats (57,000 SF)
Residential	500 units (625,000 SF)	-	500 units (625,000 SF)

Additionally, the anticipated development under the proposed CMP incorporates a total of 6,750 parking spaces on-site, including 5,825 spaces within parking structures, totaling 1,030,477 SF.

Overall Layout Concept

The arrangement of the proposed uses on the property is shown on the CMP (Figure 4). The development is envisioned as three internal Districts – the Innovation District, in the southwestern and southern sections of the Subject Property, the Town Center District (containing the residential uses, among others) at the center and the Sports and Entertainment District at the northern and eastern portions of the Subject Property (Figure 5).

The Innovation District would contain a cluster of offices and R&D uses training facilities, hotels and small-scale retail spaces. This district would have larger scale buildings with indoor spaces, which have seamless connections that foster interactions. Connections between the indoor and outdoor spaces are expected to be enhanced through, for example, transparent and permeable facades.

The Town Center District is proposed to contain multi-family buildings with ground floor retail and restaurants. This district would be of a smaller scale as compared to the Innovation District and Sports and Entertainment District. The scale of the spaces and buildings would create a sense of community and comfort, with the architecture fostering activity.

The third segment, the Sports and Entertainment District, centered around the Nassau Coliseum, would be home to event/cultural venues (e.g., the multiplex cinema and performing arts venue), and conference centers and office spaces, predominantly oriented around a large public plaza in front of Nassau Coliseum's main entrance.

While each District will have its own distinct character and identity, they will be connected through a cohesive streetscape and landscape design, as well as the green space/public open space and the vehicular and pedestrian/bicycle circulation systems.

SITE DATA

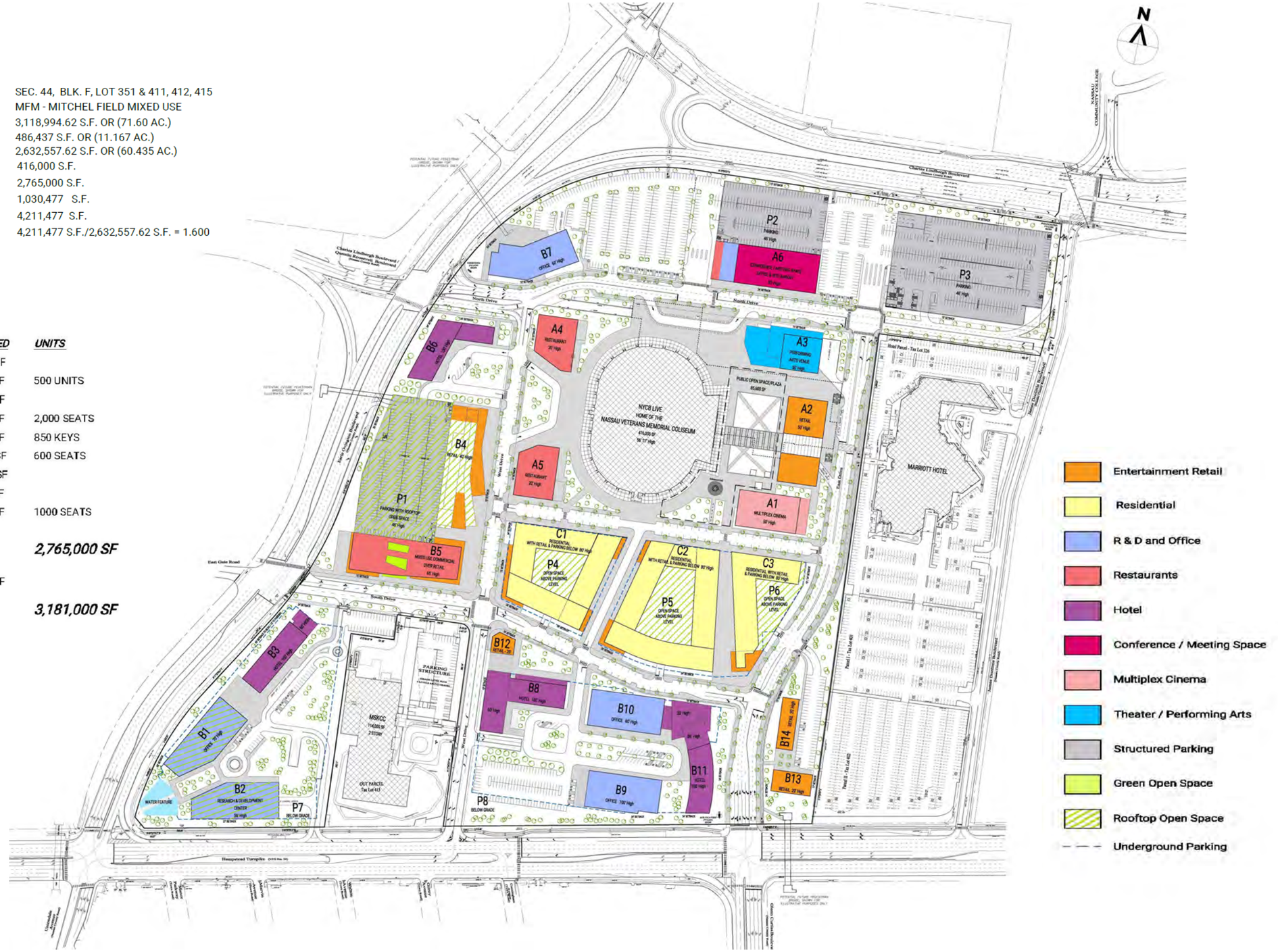
NASSAU HUB INNOVATION DISTRICT:

N.C.T.M.:	SEC. 44, BLK. F, LOT 351 & 411, 412, 415
ZONE:	MFM - MITCHEL FIELD MIXED USE
EXIST. LOT AREA:	3,118,994.62 S.F. OR (71.60 AC.)
ROADWAY ROW AREA:	486,437 S.F. OR (11.167 AC.)
NET LOT AREA	2,632,557.62 S.F. OR (60.435 AC.)
EXIST. BLDG. GROSS FLOOR AREA:	416,000 S.F.
FUTURE BLDG. GROSS FLOOR AREA:	2,765,000 S.F.
PARKING STRUCTURE FLOOR AREA:	1,030,477 S.F.
TOTAL FLOOR AREA:	4,211,477 S.F.
FLOOR AREA RATIO:	4,211,477 S.F./2,632,557.62 S.F. = 1.600

BUILDING AREAS:

NASSAU HUB INNOVATION DISTRICT:

USE	*PROPOSED*	*UNITS*
CONFERENCE / MEETING SPACE	175,000 SF	
RESIDENTIAL	625,000 SF	500 UNITS
ENTERTAINMENT RETAIL	150,000 SF	
RESTAURANTS	60,000 SF	2,000 SEATS
HOTEL	702,000 SF	850 KEYS
MULTIPLEX CINEMA	46,000 SF	600 SEATS
GENERAL OFFICE	400,000 SF	
RESEARCH/DEVELOPMENT CENTER	550,000 SF	
THEATER/PERFORMING ARTS VENUE	57,000 SF	1000 SEATS
TOTAL NASSAU HUB		***2,765,000 SF***
EXISTING COLISEUM/EXHIBITION HALL	416,000 SF	
TOTAL NASSAU HUB + COLISEUM		***3,181,000 SF***

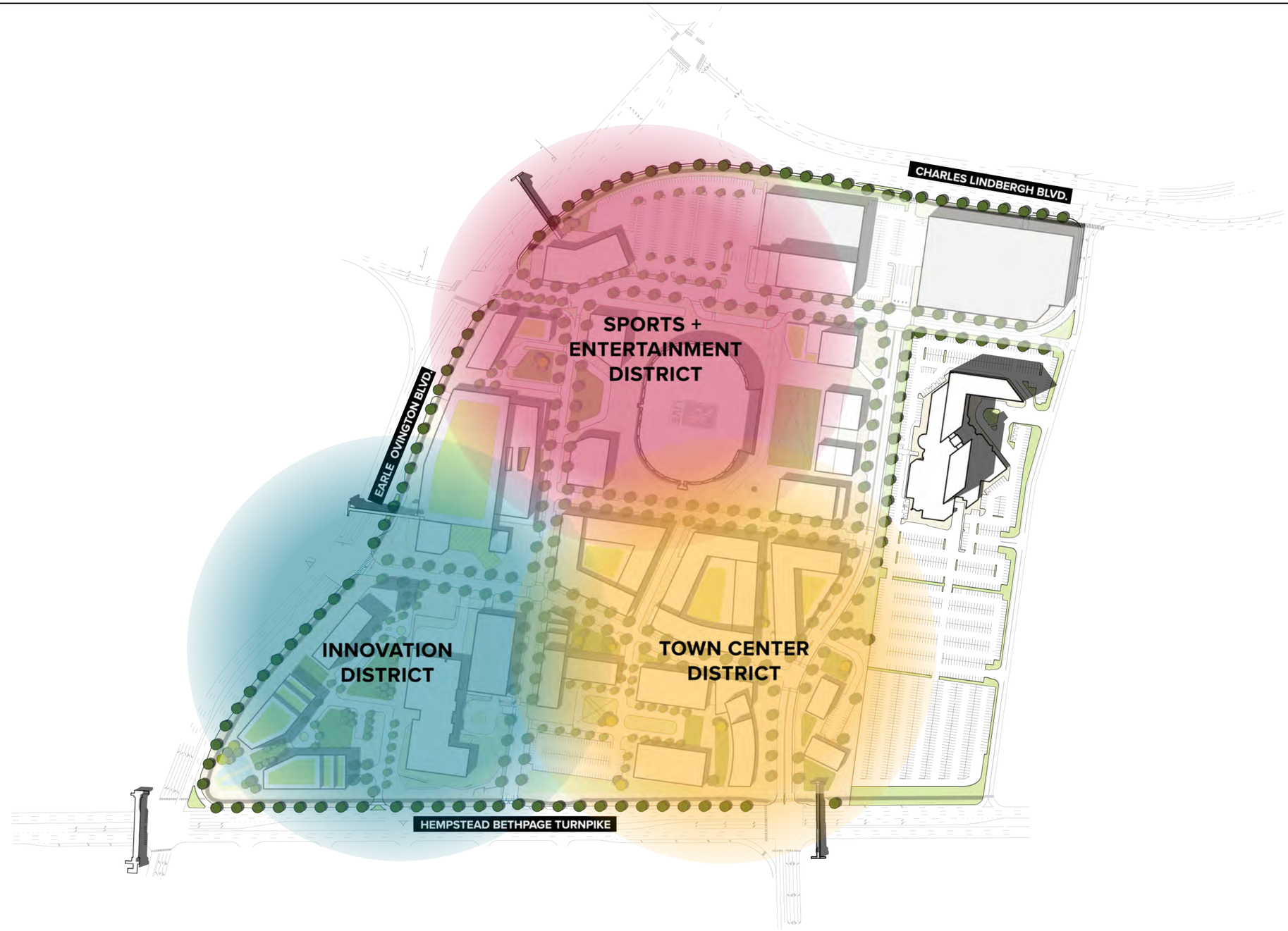


Not to Scale

Nassau Hub Innovation District | Town of Hempstead, Nassau County

Conceptual Master Plan
Hamlet of Uniondale

Source Info: Callison/RTKL, R&M Engineering, VHB and Walker Consultants (November 13, 2019)



Nassau Hub Innovation District | Town of Hempstead, Nassau County

Internal Districts
Hamlet of Uniondale

Source: RXR

\\vhb\gis\proj\Hauppauge\26841.00 RXR-Hub Innovation Dist\Project\EEA Figures Rev\Updated EEA Figures 20200437.aprx

The following provides a more detailed description of the proposed land uses within each of the Districts outlined above.

Anticipated Land Uses[5]

Office Space

The anchor for the office/R&D space is anticipated to be constructed in Phase I and to be the anchor for the office/R&D space. The vision is for the Innovation Center to become a center for the next generation of experts in the field of life sciences. include a mix of laboratory space, functions needed to support clinical and medical research, and facilities able to accommodate a range of exhibition, education, training and conference activities.

The concept for the Innovation Center is as follows:

- Develop a dedicated hub to encourage learning, inquiry, and the development of new ideas and technology
- Stimulate and seed the growth of the next-generation economy and create a talent pool to support that growth
- Bring together unique scientific and medical programs to complement current life science investments on Long Island
- Spur the creation of new businesses in cutting-edge fields, and serve as a magnet for established industry leaders
- Showcase to the public and the business community the exciting (science, technology, engineering and mathematics (STEM) work taking place at the Innovation Center and throughout Long Island.

The Nassau Hub Innovation District would provide other spaces for the "office of the future" to launch, grow, and retain cutting-edge businesses, and strengthen connections between existing businesses and the start-up community. The office space at the Hub will be designed such that it becomes a magnet for talent -- ensuring that start-ups and small businesses reach a pivotal density, that research and business partnerships prosper, and that the necessary capital is available to keep businesses on Long Island as they grow. Offering the correct mix of office space for start-ups and local small businesses will also help attract and keep innovators within Long Island. The Hub can help leverage Long Island's advantage in science and technology by offering incubator, accelerator, and co-working space, and promoting quality of work/life through open floor plans, technology-enabled amenities, wellness features, collaborative design and sustainable materials. The majority of the R&D and office is space is proposed to be located within the

[5] As previously indicated, the anticipated development consists of a mix of uses, including residential units, entertainment retail uses, research and development space, office space, hotels and mixed-use commercial spaces. As the proposed development is in the preliminary approval phase, it is not possible to determine specific tenancies. However, for purposes of comprehensive environmental review in accordance with SEQRA and its implementing regulations at 6 NYCRR Part 617, an analysis program has been assumed for evaluation in this Expanded EA, consisting of the uses described herein.

Innovation District, with other office space located within the Sports and Entertainment District, at the northern portion of the Subject Property (Figure 5).

Hotels

As seen in Table 3, approximately 260 keys (rooms) are anticipated to be constructed in Phase I of the development, while the remaining 590 keys would be constructed by the end of Full Build-Out. The hotels are expected to support the office/R&D development, as well as activities/events occurring at the entertainment and performance venues, including the Nassau Coliseum. Not only would the hotels serve the on-site uses, they would be developed to assist the Nassau Hub Innovation District in being a driver of tourism growth throughout Long Island. Hotels are included mainly within the Innovation District, with some hotel space located within the Sports and Entertainment District.

Conference/Meeting Space

In Phase I, 75,000 of the 175,000 SF of flexible meeting/conference space would be constructed, while the remaining 100,000 SF would be constructed during Phase II. This space would support the R&D Innovation Center, the other office spaces and the hotels. Much of the conference/meeting space is to be located at the northern portion of the property, within the Sports and Entertainment District, although some would be situated within the Innovation District.

Entertainment Retail/Restaurants

The approximately 210,000 SF of entertainment retail (150,000 SF) and food and beverage establishments (60,000 SF, 2,000 seats) would be located within all of internal Districts, with the restaurants generally situated in the Sports and Entertainment District around the Nassau Coliseum. These spaces would support the on-site project components

Multiplex Cinema

The multiplex cinema is proposed to contain 600 seats and be located within the Sports and Entertainment District adjacent to Nassau Coliseum.

Theater/Performing Arts Venue

The theater/performing arts venue is proposed to be an intimate venue, housing live performances in a 1,000-seat facility within the proposed Sports and Entertainment District adjacent to the Nassau Coliseum and the multiplex cinema.

Residential

The proposed program includes 500 residential units within several multi-story buildings, located within the Town Center District, as described below. There are a variety of housing models being considered, including traditional multi-family housing types and innovative collective living (or co-living) solutions that would meet the needs of many Long Islanders, including the 21st century young

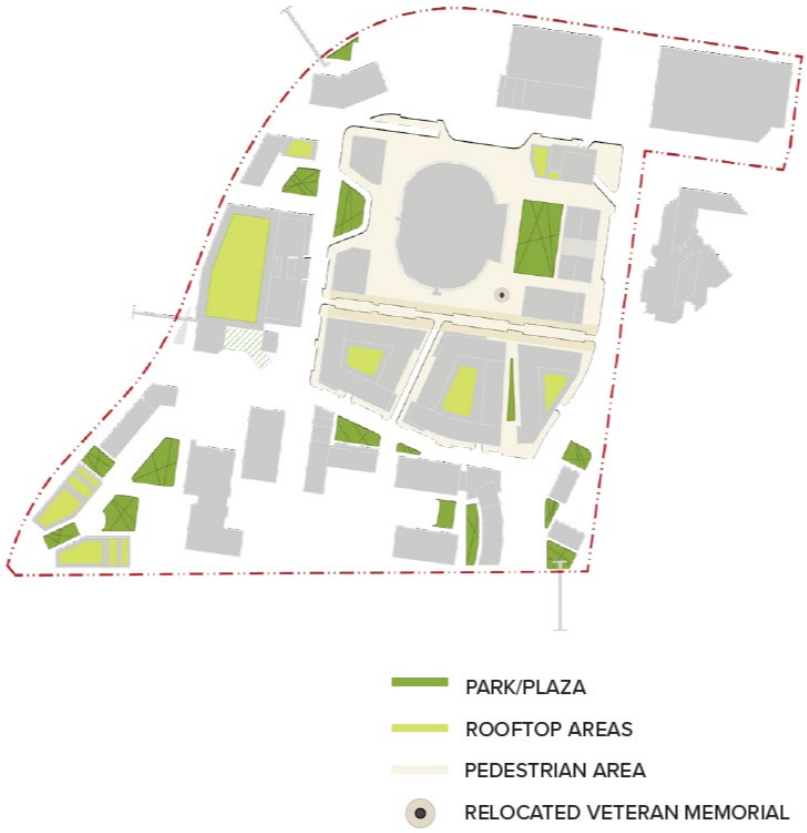
professional, as well as empty nesters. The residential building would be designed with a mix of neighborhood-scale retail, local-serving goods and services and leisure activities on the ground floor. Co-living housing envisions suite-like apartment units where individuals or couples rent a private bedroom and share common spaces (such as kitchens, living and dining spaces, laundry facilities) with other suitemates. Co-living units tend to reduce the number of "make-shift" multi-bedroom units,[6] allow for better affordability, and provide an immediate community. The units are generally fully furnished and would be wi-fi enabled and have utilities included in the rent. Co-living units are specifically designed to minimize potential friction points (such as housekeeping and bill sharing, while increasing convenience of leasing and moving).

The following describes the various project elements that connect the specific program components (land uses) and Districts discussed above: Green Space/Public Open Space; Site Layout, Access, Mobility and Circulation; Parking; and Infrastructure and Utilities. In addition, site operations and security, as well as community facilities that would serve the proposed development are described below.

Green Space/Public Open Space

As discussed above, the Open Space Strategy involves the creation a network of public spaces that serve multiple purposes connected by activated streetscape. The Nassau Hub Innovation District is anticipated to contain at least 85,600 SF of public open space, exceeding the zoning district requirement, as well as another 265,000 SF of open space associated with the residential development, pursuant to the MFM District. The final square footage of green space and public open space will be determined as the plans are further developed but will in no case be less that what is described herein.

[6] Apartments arbitrarily split up into separate living areas for multiple tenants.



As shown on the proposed CMP and in the graphic above, not only would the parking garages (designated as "P" on the CMP) provide parking spaces, they would also incorporate innovative design elements (including open spaces) that will make them attractions in their own right. For instances, P1 is shown on the proposed CMP as containing a rooftop open space. Some elements that are being considered for this rooftop include a farm, a greenhouse and an apiary.[7] The rooftop open space at P1 would be located at the fourth above-ground level of the garage.

Several buildings, including the office and R&D buildings within the Innovation District at the southwestern corner of the Subject Property, are proposed to contain green roofs and/or rooftop open space. In addition, as illustrated in the graphic above, several park/plaza areas would be located throughout the Subject Property connected by pedestrian areas.

Additionally, the Subject Property is situated within an area well served by a variety of open spaces and recreational facilities including the 65-acre nearby Francis T. Purcell Preserve, which contains a portion of the Hempstead Plains, the 49-acre

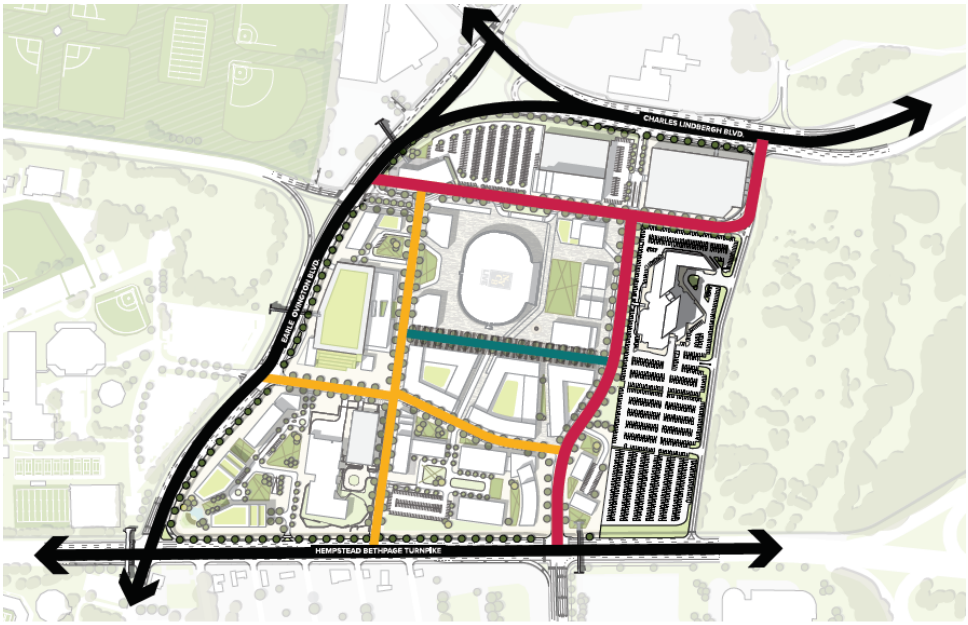
[7] A place where bees are kept, especially: a collection of hives or colonies of bees kept for their honey. https://www.merriam-webster.com/dictionary/apiary

Mitchel Athletic Complex, located just to the west of the Subject Property, and the extensive 930-acre Eisenhower Park, to the east of the site. These facilities, among others, would augment the on-site open spaces by providing proximate off-site open space and recreational opportunities for future residents, employees and visitors.

Site Layout, Access, Mobility and Circulation

The Mobility Strategy for the development seeks to create a walkable environment by prioritizing pedestrians and bicycle movement while calming vehicular traffic. It also allows for temporary street closures during major events without cutting off access into the garages dedicated to residents, workers and visitors to the site.

The CMP is surrounded by three existing arterial roads: Charles Lindbergh Boulevard to the north, Hempstead Turnpike to the south and Earle Ovington Boulevard to the west. Within the confines of these arterials, a roadway system has been designed to comply with the public rights-of-way approved in the 2015 NEC CMP. The street network comprises three types of roadways: primary (wide), secondary (narrow) and shared.



The primary roads consist of a north-south roadway (East Drive) on the eastern portion of the site, and an east-west roadway (North Drive) on the north side of the site. The secondary roads are composed of a north-south street (West Drive) and an east-west street (South Drive) that terminate at the primary roadways. The shared roadway is proposed to be located between the Nassau Coliseum (to the north) and the proposed residential buildings (to the south). Diagrams showing the components of each roadway type are found in Section 3.4.2 of this Expanded EA.

Access to the Subject Property would be via Charles Lindbergh Boulevard, Earle Ovington Boulevard and Hempstead Turnpike. A system of internal roadways would be established to connect the Subject Property to the external roadway network, mostly using access points that are already established. Specifically, there will be three access points on both Hempstead Turnpike and Earle Ovington Boulevard and one main access on Charles Lindbergh Boulevard at its intersection with James Doolittle Boulevard, along with two egress points used only during events.

Bus and BRT infrastructure is proposed within the Nassau Hub Innovation District, as these vehicles, which provide alternate transportation options, would traverse the site. At this time, bus/BRT stops are shown on East Drive, north of the main (easternmost) access at Hempstead Turnpike (East Drive), and near South Drive. Another bus/BRT stop is shown along North Drive, across from the Nassau Coliseum. However, ultimate locations of the bus/BRT stops would be coordinated with Nassau County or other relevant agencies.

Non-motorized vehicles/bicycles would be accommodated by both separate protected and shared bike lanes along the primary and secondary roadways. At certain locations, internal bike lanes would connect to external bike lanes, connecting the proposed development to the Mitchel Field pedestrian path and bikeway and eventually to the nearby Long Island Motor Parkway Trail.

Pedestrians would be accommodated through the incorporation of sidewalks throughout the site, crosswalks at intersections, as well as mid-block crosswalks, including raised mid-block crosswalks (where appropriate) for pedestrian safety. The shared roadway is proposed to contain shared surface/curbless streets, which are meant to prioritize pedestrian activity and calm traffic.

Potential future pedestrian bridges are shown on the CMP for illustrative purposes. One potential bridge is shown across Hempstead Turnpike in the area of RXR Plaza, while two potential bridges are shown along Earle Ovington Boulevard in the areas near Hofstra University and the Omni office building.

Site circulation and parking access are shown in the diagram below, and discussed in more detail in Section 3.5.2 and Appendix E of this Expanded EA.

Parking

The proposal also includes the ultimate construction of 6,750 parking spaces, as follows:

- On-Grade on Open Air Parking: 744 Spaces
- On-Street Parking: 181 Spaces
- On-Grade in Parking Structures: 788 Spaces
- Structured Parking - Above Grade: 2,849 Spaces
- Structured Parking - Below Grade: 2,188 Spaces

There are an additional 6,000± parking spaces within RXR Plaza and the Omni, both located within 300 feet of the property and owned by RXR.

Several of the proposed parking structures are proposed to be funded by an Empire State Development Corporation (ESDC) grant of $85 million. In addition, as noted above, aside from providing parking spaces, several of the parking garages are anticipated to house other design/sustainability elements, including photovoltaic (PV) shade structures for solar energy generation, a farm, a greenhouse, etc.

Infrastructure and Utilities

The following infrastructure/utilities serve and will continue to serve the proposed development (see full discussion and analysis in Sections 3.2, 3.8 and 3.10 of this Expanded EA):

Water Supply: Town of Hempstead Water Department/Uniondale Water District/Mitchel Field Water Supply Area

Sewer: Roosevelt Industrial Area Sewer District /Nassau County Department of Public Works

Electric: PSEG – Long Island

Natural Gas: National Grid (as required)

Other Potential Energy Sources: Engie (potential connection to co-generation plant)

In addition, stormwater runoff would be discharged on-site via a network of storm drains located throughout the Subject Property. Stormwater runoff would then be routed southwards to twin pipe culverts and eventually discharged to a Nassau County recharge basin located along Glenn Curtiss Boulevard.

Site Operations and Security

The proposed development is anticipated to be managed as a mixed-use community. A Master Association will perform on-site management functions, including, but not limited to, site operations, maintenance and security for the community. The Master Association would also manage the public spaces. Residential buildings will have their own on-site management, either through the developer or a third-party management company.

Maintenance of the streets and grounds, on-site drainage, snow removal and solid waste collection would be coordinated by the Master Association, and would not require municipal involvement

Community Facilities

The subject property and proposed development are, and will continue to be, served by the following community facilities (see full discussion and analysis in Section 3.8 of this Expanded EA):

Schools: Uniondale Union Free School District

Fire Protection: Uniondale Fire Department

Emergency Medical Services: Nassau County Emergency Ambulance Bureau and Uniondale Fire Department

Hospitals: Nassau University Medical Center, closest hospital (public). Other nearby hospitals include Northwell Health North Shore Hospital, Northwell Health Long Island Jewish Medical Center, NYU Langone Winthrop Hospital

Police Protection: Nassau County Police Department - Third Precinct

1.3 Purpose, Need and Benefits

As of today, a renovated Nassau Coliseum stands isolated in a sea of asphalt with no active plan for the remainder of the property.[8] While the Hub remains a work-in-progress, its status makes possible a solution to some of the most pressing economic needs of Nassau County. This property contains the largest mix of vacant and underutilized property in all of Nassau County. It is centrally located and surrounded by stable residential communities, shopping centers, excellent educational and research institutions, and an array of significant regional employers. The redevelopment of the Nassau Hub presents an opportunity to leverage its existing strengths and assets to create a blueprint for steady growth that will enhance Long Island's job-generating capacity and re-establish the region as a global center of innovation.

Nassau County's highly skilled workforce stems from a long history in industries such as aerospace and defense, life sciences, and advanced manufacturing, while Nassau County's research, health care and academic institutions and close proximity to the business capital of the world – New York City – help ensure that its competitive edge is constantly advancing. As expressed in the RFEI, Nassau County's top priority, to support an innovative economy and create new jobs, involves unlocking the potential of the Nassau Hub situated at the heart of the County. Moreover, the County wants to leverage the recent investments made in the assets at and around the Hub, including the newly-renovated Nassau Coliseum, as well as the brand new, cutting-edge MSKCC facility.

As previously noted, Nassau County's vision is to create a new Nassau Hub Innovation District comprising a mixed-use development, incorporating:

- Research & Lab Space
- Corporate Office Space
- Sports & Entertainment
- Restaurants and Shopping
- Green Space
- Multi-Type Housing
- Robust Transit & Walkable Streets
- Academic Space

The redevelopment of the Nassau Hub area will address the County's vision of turning the Subject Property into an economic engine through the creation of an innovation center. The development of an innovation center will help to harness Nassau County's entrepreneurial spirit and immense potential to incubate and

[8] As noted above, the Town Board previously approved 188,000 SF of retail and entertainment space as part of NEC Phase I Site Plan Approval for the renovated Coliseum. To date, this development has not been constructed.

accelerate the rise of major new industries, similar to what it did in the 20th century when it fostered cutting-edge technology for the aeronautics and defense industries.

Creation of the Nassau Hub Innovation District would fulfill the County's economic development and housing needs and afford a significant benefit by providing a mixed-use development with live, work, and play spaces that offer companies and institutions access to a rich network of social capital as well as the lifestyle and amenities to attract and retain the talented professionals that inhabit it. In addition, as this is an increasingly digitized economy and technology-driven age, this development will bring the new approaches, innovative technologies and smart infrastructure to create an environment that supports community and accelerates economic growth.

Vibrant and diverse communities containing a mix of uses are where entrepreneurs and skilled employees choose to live and work. The next-generation, innovation-driven economy is taking root in places that are both dynamic and livable, with a robust, transit-accessible and walkable combination of businesses, research institutions, residences, purveyors of goods, experiences, as well as public spaces where people can learn, collaborate, and create. In short, the neighborhood now is the amenity that attracts talent and talent is the key "natural resource" that fuels economic success.

The Applicant's vision for the site builds upon the newly renovated Coliseum, a major sports and entertainment asset, creating not only complementary destination retail, but much needed residential space. These uses, in turn, will help fuel the site plan's centerpiece, the innovation center. The current development vision seeks to generate jobs and transform the Hub into a multi-use campus grounded on smart technology and "Innovation Everywhere" (Figure 3), setting the bar for next generation suburban revitalization. As previously noted, the mixed-use development program includes the ingredients for a sustainable and rich innovation district, having the potential to create a new model for what a suburban downtown should be, a dynamic and exciting place for innovation and collaboration – a model that can be replicated across the region and beyond.

The Nassau Hub Innovation District seeks to attract new economic activity to the surrounding areas, generate substantial new tax revenue at the local, County and state levels, create new high-paying jobs for people of varying skill levels, provide best-in-class entertainment and retail options, and help attract and retain Long Island's young and empty-nesters, as noted. The Applicant also seeks to prioritize the hiring and engagement of local residents and local companies as well as minority and women-owned enterprises.

The economic and community benefits are set forth below.

Provided below is an estimation of employment, labor income, value added and economic output to be produced by the construction and operations of the proposed Nassau Hub Innovation District CMP, based upon data provided by

Nassau HUB Master Developer LLC, including the anticipated development program shown in Table 3, above. IMPLAN, a regional input-output model software system, was used to generate these estimates. The methodologies and assumptions used in the IMPLAN analysis are set forth below.

Study Area

The Study Area for this analysis is the New York-Newark-Jersey City, NY-NJ-PA Metropolitan Statistical Area (as defined by the US Census), which includes New York, Kings, Queens, Bronx, Richmond, Westchester, Putnam, Dutchess, Nassau, Suffolk, Orange, and Rockland Counties in New York; Essex, Hunterdon, Morris, Somerset, Sussex, Union, Bergen, Hudson, Middlesex, Monmouth, Ocean and Passaic Counties in New Jersey; and Pike County in Pennsylvania. Although the project would be constructed in Nassau County, it is likely that construction materials and supplies, as well as some construction and operational employees, would come from throughout the region, therefore, the Study Area includes the New York City region (of which Nassau County is a part). However, it is expected that a significant portion of the project's economic benefits would occur in Nassau County.

Construction

The construction period for Phase I is expected to be four years, starting in 2021 (ending in 2024). Construction for Phase II is anticipated to be three years, starting in 2025 (ending in 2027). The IMPLAN analysis was performed using anticipated construction costs, provided by the Applicant, of $893,860,426 for Phase I and $617,229,481 for Phase II, and the multipliers for the IMPLAN sectors Construction of New Commercial Structures and Construction of New Multifamily Residential Structures. IMPLAN employment estimates include full and part time jobs (see definition of Employment below). The number of jobs presented are the average number of annual jobs estimated during the construction period for each phase. The jobs include not only direct jobs associated with this specific project but also industries affected by indirect and induced spending of the construction businesses and employees.

Operations

The annual operational impacts are expected to begin in full in the year 2025 for Phase I and the year 2027 for Phase II. The number of direct jobs is estimated based on industry standard multipliers by use, including multipliers from the U.S. Green Building Council and U.K. Homes & Communities Agency. The direct number of jobs is inserted into IMPLAN to estimate indirect and induced employment, labor income, value added, and output. The following sectors are used in the IMPLAN analysis: Real Estate for residential uses; Scientific Research and Development Services for research and development office use; Marketing Research and All Other Miscellaneous Professional, Scientific and Technical Services for general office uses; Full Service Restaurants for restaurants; Retail – Miscellaneous Store Retailers for retail uses; Hotels and Motels for hotel uses, Other Amusements and Recreation Industries for

cinema, theater, and conference/meeting space use; and Facilities Support Services for parking garages.

Definitions

- *Employment* is defined to include full and part time annual average jobs for both employees and self-employed workers. Seasonal employees are accounted for in this definition of employment.
- *Direct Effect* is an immediate result of direct spending (i.e., construction jobs directly related to on-site activity).
- *Indirect Effect* is the impact of local industries buying goods and services from other local industries (i.e., jobs supported from construction-related spending).
- *Induced Effect* is the response by an economy to an initial change (Direct Effect) that occurs through re-spending of income by direct employees. Money is recirculated through the household spending patterns causing further local economic activity (i.e., jobs created through household spending of income from direct jobs).
- *Labor Income* includes employee compensation (wages and benefits paid to employees) and proprietor income (profits earned by self-employed individuals).
- *Value Added* is the sum of Labor Income, other property income (such as corporate profits and interest income), and taxes on production and imports (net of subsidies). Value Added can also be defined as gross regional product.
- *Output* is the value of production and is equal to Value Added plus intermediate expenditures (monies spent purchasing goods and services to create an industry's production).

The results of the economic analysis are divided between the construction periods and the operational period.

Construction Period Results

Construction of Phase I is expected to take approximately four years, starting in 2021. Total construction costs are expected to be approximately $893,860,426, for an average spending of $223,465,106 per year for four years. Proposed construction is estimated to support 2,138 jobs annually over the four-year construction period, including 1,320 direct jobs, 280 indirect jobs, and 538 induced jobs (see Table 1). Most of these jobs will be in the construction industry with indirect and induced jobs in a variety of industries such as wholesale trade, real estate, restaurants, hospitals, and architectural and engineering services. As noted in the Definitions section, indirect jobs are those supported by business-to-business spending and induced jobs are those supported by household spending from the construction workers. These jobs are calculated based on multipliers and datasets for various industries identified in IMPLAN and reflect typical spending patterns by these industries and workers.

Project construction will produce an estimated $156,760,158 in annual labor income, $223,026,477 in annual value added, and an annual output of $363,789,350 for the New York City metropolitan region, which includes Nassau County (Table 4).

Table 4 – Phase I Average Annual Impacts of Construction Spending

Impact Type	Employment (Jobs)	Labor Income	Value Added	Output
Direct Effect	1,320	$100,489,934	$129,785,083	$217,189,600
Indirect Effect	280	22,490,787	34,009,399	56,300,985
Induced Effect	538	33,779,438	59,231,995	90,298,765
Total Effect	*2,138*	*$156,760,158*	*$223,026,477*	*$363,789,350*

Note: Values presented in 2020 dollars.

Construction of Phase II is expected to take approximately three years, starting in 2025. Total construction costs for Phase II are expected to be approximately $671,229,481, for an average spending of $167,807,370 per year for three years. Proposed construction is estimated to support 1,570 jobs annually over the three-year construction period, including 1,027 direct jobs, 144 indirect jobs, and 398 induced jobs (Table 5). Most of these jobs will be in the construction industry with indirect and induced jobs in a variety of industries such as wholesale trade, real estate, restaurants, hospitals, and architectural and engineering services.

Table 5 – Phase II Average Annual Impacts of Construction Spending

Impact Type	Employment (Jobs)	Labor Income	Value Added	Output
Direct Effect	1,027	$77,917,078	$99,920,303	$159,549,662
Indirect Effect	144	13,167,644	20,129,131	33,845,006
Induced Effect	398	25,026,603	43,883,356	66,901,593
Total Effect	*1,570*	*$116,111,325*	*$163,932,790*	*$260,296,260*

Note: Values presented in 2020 dollars.

According to the U.S. Census,[9] approximately 30,945 individuals who live in Nassau County work in construction related jobs (4.9% of all workers in Nassau County), and there are 29,681 construction jobs located in Nassau County. Generally, the construction industry on Long Island (Nassau and Suffolk Counties) increased by approximately 2,100 jobs from December 2018 to December 2019.[10] More specifically, per the New York State Department of Labor, construction of buildings experienced an approximately 26% increase in jobs between 2013 and 2018 and is projected to increase by 6.4% overall between 2016-2026. Construction of buildings is considered to be a significant industry for Long Island by the Labor Department

[9] Source: U.S. Census Bureau Longitudinal Employer-Household Dynamics program, OnTheMap application.
[10] https://labor.ny.gov/stats/lon/index.shtm, accessed on February 3, 2020.

because it employs a significant number of jobs and has experienced above-average projected and real job growth.[11] By supporting an annual average of 1,320 direct construction jobs in Phase I and 1,027 direct construction jobs in Phase II, the project would contribute to continued growth in the construction industry.

Operational Phase Results

Phase I is anticipated to be fully operational by the end of 2024, at which time, the project is projected to support approximately 3,079 jobs. Of these jobs, 1,681 jobs are direct employment, 570 are indirect employment, and 828 are induced employment (Table 6 and Table 7). The New York metropolitan region, including Nassau County, is estimated to experience total annual labor income growth of $241,273,141, value added growth of $332,319,155, and total economic output growth of $511,904,876 due to Phase I of the proposed project (Table 7).

Table 6 – Phase I Direct Operational Employment

Use	Square Feet/ Units	Multiplier	# of Employees
Residential	500 units	1 employee per 25 units[1]	20
Retail	110,000 SF	1 employee per 550 SF[2]	200
Restaurant	60,000 SF	1 employee per 435 SF[2]	138
Office (Research & Development)	188,000 SF	1 employee per 400 SF[2]	470
Office (General)	148,000 SF	1 employee per 250 SF[2]	592
Hotel	186,121 SF (260 rooms)	1 employee per 1,500 SF[2]	124
Performing Arts Theater	57,000 SF (1,000 seats)	1 employee per 2,799 SF[3]	20
Cinema	46,000 SF (600 seats)	1 employee per 2,153 SF[3]	21
Conference/Meeting Space	75,000 SF	1 employee per 2,799 SF[3]	27
Parking	3,451 spaces	1 employee per 50 parking spaces[1]	69
Total			*1,681*

Sources: [1] Standard multiplier used in prior New York City EIS documents
[2] U.S. Green Building Council, LEED Reference Guide for Green Building Design and Construction
[3] U.K. Homes & Communities Agency, Employment Density Guide 2015

[11] Significant Industries, A Report to the Workforce Development System, Long Island, by the New York State Department of Labor, 2019.

Table 7 – Phase I Impacts of Annual Operations

Impact Type	Employment (Jobs)	Labor Income	Value Added	Output
Direct Effect	1,681	$139,992,645	$163,380,699	$259,586,495
Indirect Effect	570	49,347,972	77,869,704	113,500,135
Induced Effect	828	51,932,524	91,068,753	138,818,246
Total Effect	*3,079*	*$241,273,141*	*$332,319,155*	*$511,904,876*

Note: Values presented in 2020 dollars.

Phase II is anticipated to be fully operational by the end of 2027, at which time, the project is projected to support an additional approximately 4,812 jobs. Of these jobs, 2,432 jobs are direct employment, 984 are indirect employment, and 1,396 are induced employment (Table 8 and Table 9). The New York metropolitan region, including Nassau County, is estimated to experience additional total annual labor income growth of $406,902,236, value added growth of $561,508,102, and total economic output growth of $867,414,764 due to Phase II of the proposed project (Table 9).

Table 8 – Phase II Direct Operational Employment

Use	Square Feet/Units	Multiplier	# of Employees
Retail	40,000 SF	1 employee per 550 SF[2]	73
Office (Research & Development)	362,000 SF	1 employee per 400 SF[2]	905
Office (General)	252,000 SF	1 employee per 250 SF[2]	1,008
Hotel	515,879 SF (590 rooms)	1 employee per 1,500 SF[2]	344
Conference/Meeting Space	100,000 SF	1 employee per 2,799 SF[3]	36
Parking	3,299 spaces	1 employee per 50 parking spaces[1]	66
Total			*2,432*

Sources: [1] Standard multiplier used in prior New York City EIS documents
[2] U.S. Green Building Council, LEED Reference Guide for Green Building Design and Construction
[3] U.K. Homes & Communities Agency, Employment Density Guide 2015

Table 9 – Phase II Impacts of Annual Operations

Impact Type	Employment (Jobs)	Labor Income	Value Added	Output
Direct Effect	2,432	$233,046,335	$272,767,760	$436,893,748
Indirect Effect	984	86,260,816	135,134,942	196,373,468
Induced Effect	1,396	87,595,085	153,605,401	234,147,548
Total Effect	4,812	$406,902,236	$561,508,102	$867,414,764

Note: Values presented in 2020 dollars.

Combined, Phases I and II is expected to generate over 4,100 direct new jobs and would support an additional 3,778 jobs. Per the U.S. Census, there were a total of 581,884 jobs in Nassau County in 2017. The 4,100+ direct new jobs on the project site would represent a 0.7% increase in jobs in the County. The largest number of jobs to be generated on the project site would be in connection with the general office and research and development uses. It is not yet known the specific jobs to be created by these uses; however, it is assumed that most of these jobs would be in the Professional and Business Services sector and other subsectors of R&D (including Drugs and Pharmaceuticals; Medical Devices and Equipment; Research, Testing and Medical Labs), which include professional, scientific and technical services, as well as administrative and support services. According the 2019 New York State Department of Labor report entitled "Significant Industries" for Long Island, the professional and business service sector is a significant industry for Long Island. Professional, scientific and technical service industry employed the fourth most number of people in Long Island and paid higher wages than the average annual wage over all industries. This sector includes companies that provide IT services, engineering and architectural consulting, accounting and legal services. This sector also includes jobs generated by the proposed R&D use which is a key priority for Nassau County and the surrounding region. Jobs associated with the R&D sectors include analysts, research scientists, assistants and technicians, product engineers, project managers, and laboratory managers. These jobs also generally pay higher wages that the average annual wage over all industries. Jobs in the administrative and support services industry generally pay lower wages but are still considered a significant industry because of how many people this sector employs and its projected growth of 22.0% between 2016 and 2026. These jobs, including janitors and cleaners, security guards, office clerks, administrative assistants, etc., provide valuable jobs for individuals, including those just entering the labor force and those of varying levels of educational attainment.

In another example, the food services and drinking establishment sector is also considered a significant industry for Long Island by the New York State Department of Labor. A large number of new direct restaurant jobs would be created by the project and several existing and new food service jobs would be supported through

indirect and induced activity. This industry typically employs managers, hosts, servers, cooks, bartenders, dishwashers, etc.

Overall, the anticipated development would provide new job opportunities in many of the significant industries for Long Island, boosting the local economy and providing a mix of higher and lower wage jobs. Many of the benefits of indirect and induced activity would be experienced locally, furthering economic growth in Nassau County.

Table 10 – Phase I and Phase II Combined Impacts of Annual Operations

Impact Type	Employment (Jobs)	Labor Income	Value Added	Output
Direct Effect	4,113	$373,038,980	$436,148,459	$696,480,243
Indirect Effect	1,554	135,608,788	213,004,646	309,873,603
Induced Effect	2,224	139,527,609	244,674,154	372,965,794
Total Effect	*7,891*	$648,175,377	$893,827,257	$1,379,319,640

Note: Values presented in 2020 dollars.

Based on the foregoing, the anticipated development in the Nassau Hub Innovation District would have a significant positive economic impact on the local community, County, and region through the creation of thousands of direct jobs, as well as indirect and induced jobs, and their associated labor income and economic output.

See Section 1.4 for a discussion regarding community outreach and benefits.

1.4 Community Outreach

The Applicant understands that in order for the proposed project to be successful, the stakeholders and community-at-large needs to have meaningful and ongoing involvement in the project's development. Local community leaders, elected official and community stakeholders have been and will continue to be involved in multiple listening sessions, conversations and meetings that will occur throughout the planning, design and construction/development process.

The DPA included a commitment to execute a Community Benefits Agreement (CBA) for the project which would be funded by the development according to the following formula; For every square foot of built-out space at the Nassau Innovation District, the developer would commit one dollar toward community benefit initiatives. Direct dialogue with the community is the optimal way to understand the issues of concern and what the community's wishes with respect to involvement in the process and the ultimate benefits. Therefore, the Nassau Hub Community Benefits Advisory Committee (CBAC) was formed by the County. The CBAC was created to be instrumental in the development of a community benefits framework to allocate the economic opportunities and proceeds throughout the surrounding communities. The CBAC is composed of public officials, leaders of civic associations and chambers of commerce. The CBAC is co-chaired by Senior Councilmember Dorothy Goosby of the Town of Hempstead, and Kevin Law, CEO and President of the Long Island Association. Membership and includes:

- Nassau County Legislators Thomas McKevitt and Siela Bynoe
- Village of Garden City Trustee Brian Daughney
- Village of Hempstead Mayor Don Ryan
- Village of Mineola Mayor Scott Strauss
- Hempstead Town Supervisor Representative
- Deputy County Executive for Economic Development Evlyn Tsimis
- President of the Building Trades and Construction Council of Nassau and Suffolk Matthew Aracich
- President of the Uniondale Community Land Trust Paul Gibson
- President of Nostrand Gardens Civic Association Pearl Jacobs
- Co-facilitator of the Greater Uniondale Area Action Coalition Jeannine Maynard
- East Meadow Chamber of Commerce Board Member Walter Skinner.

The Nassau Hub Community Benefits program is geared to identifying opportunities to support:

- vulnerable populations, such as veterans and at-risk youth
- local first responders
- local hiring and MWBE participation

- multi-tiered job training and job creation
- integration of local businesses and support of local entrepreneurs
- youth programs
- environment and sustainability
- the Uniondale School District
- enhanced mobility and connectivity to, as well as in and around the Nassau Hub site.

Five working groups were formed to focus on specific areas of concern: Youth, Veterans & Seniors; Transportation & Infrastructure; Environmental & Sustainability: Workforce Development; and Business and Economic Development & Tourism. The CBAC has been developing recommendations in order to optimize how the community benefits are created and allocated. The goal of the Working Groups is to advise the overall CBAC and to understand the myriad perspectives that will inform the development. The overarching theme that has come out of the Working Groups is to ensure that members of the surrounding communities feel connected to the proposed development through business opportunities, marketing, program collaboration and accessibility.

Ongoing meetings with the County and Town have occurred since the Applicant was chosen by Nassau County to develop the property.

Meetings have been held with, among other organizations, the Nostrand Gardens Civic Association, Uniondale Land Trust, East Meadow Chamber of Commerce, Kiwanis Club of East Meadow, Long Island African American Chamber of Commerce, Cradle of Aviation Museum, Nassau County Village Association, Village of Hempstead Chamber of Commerce, Carle Place Civic Association and the Westbury Arts Council to have targeted conversations and address specific concerns. Additional meetings included the Uniondale School District, local childcare organizations, the Uniondale Fire District and Department, Discover Long Island, other economic development advocates and businesses, local universities and colleges (Hofstra University and Nassau Community College), various civic associations, and elected officials.

In addition, to the meetings, listening sessions, etc., the Applicant maintains a website, www.nassauhub.com, which: 1) provides information regarding the proposed project; 2) provides a forum for inquiries about the proposed project; and 3) offer updates on the status of the proposed project.

1.5 Required Permits and Approvals

The following are required or potential permits, approvals or funding sources associated with the implementation of the Proposed Action.

Table 11 – Permits/Approvals and Potential Funding Sources

Agency	Type of Permit/Approval/Funding
Town of Hempstead Town Board	Approval of Modified Conceptual Master Plan, Relaxation of Select MFM Zoning Provisions, Site Plan Approval, Open Development Area (Potential)
Town of Hempstead	Building Permits
Town of Hempstead Water Department	Water Connection
Uniondale Water District	Water Supply
Nassau County Department of Health	Realty Subdivision (if proposed), backflow prevention devices
Nassau County Department of Public Works	239-f Review, Sewer Connection, Stormwater, Curb Cuts/Highway Work Permits
Nassau County Planning Commission	239-m Referral and Subdivision Approval
New York State Department of Transportation	Curb Cuts/Highway Work Permits
New York State Department of Environmental Conservation	SPDES General Permit for Stormwater Discharges for Construction Activities (GP-0-15-002 or current version)
PSEG Long Island	Utility Connection
National Grid	Utility Connection
Engie - Nassau County Energy	Potential Utility Connection
Empire State Development Corporation (ESDC)	Potential Funding
New York State Energy Research and Development Authority (NYSERDA)	Potential Funding
Nassau County Industrial Development Agency (NC IDA)	Potential Funding

1.6 SEQRA Process

This Expanded EA is an accompaniment to the Part 1 of the New York State Environmental Assessment Form (EAF), which was prepared pursuant to the requirements of SEQRA and its implementing regulations at 6 NYCRR Part 617. Prior to the Town or any other involved agency issuing discretionary permits or approvals, the SEQRA requirements to review, consider and mitigate, to the extent practicable, potential environmental impacts must be met.

As previously indicated, the Nassau Hub has been the subject of prior proposals and SEQRA processes, which resulted in adoption of the MFM Findings Statement (see

Appendix C). Preparation of a Part 1 – EAF and Expanded EA, including a consistency analysis with the prior findings of a generic environmental impact statement (GEIS), is an appropriate forum in which to address the environmental review of the current application, as explained in more detail in Section 2. The Consistency Analysis has been prepared to demonstrate that the currently proposed project would not exceed the criteria, thresholds and conditions set forth in the MFM Findings Statement and that the overall impacts of the currently proposed project do not exceed those previously evaluated in the FGEIS. Also, similar to the Part 1 – EAF, Expanded EA and Consistency Analysis prepared for the previously-approved NEC CMP, this Expanded EA provides a detailed description of the current project as well as analyses of those areas of environmental impact that remain relevant, based on current site and surrounding area conditions.

This Expanded EA, which has been prepared by the Applicant, is divided in to three sections. This section, Section 1.0, provides an introduction to the Expanded EA, as well as a description of all components of the proposed project including history of the site; complete description of the proposed plan; the project's purpose, need and benefits; description of community outreach efforts and required permits and approvals. Section 2.0 provides the Consistency Analysis with the MFM Findings Statement. Each of the subsections of Section 3.0 identifies and sets forth, with respect to each environmental topic examined (i.e., Water Resources; Stormwater; Ecology; Zoning, Land Use and Community Character; Transportation and Parking; Air Quality; Noise and Vibration; Aesthetic Resources; Energy/Sustainability; and Construction), the existing conditions at the Subject Property and immediately surrounding area, as well as the potential beneficial and adverse environmental impacts of the Proposed Action. The mitigation section under each environmental topic identifies those measures that are proposed to avoid or minimize significant adverse impacts associated with implementation of the Proposed Action.

2

Consistency Analysis with the MFM Findings Statement

As indicated in Section 1, the MFM Findings Statement (or "Findings") was adopted by the Town of Hempstead (see Appendix C) and concluded its GEIS process. Pursuant to *The SEQR Handbook*,[12]

> *[a] findings statement is a written document, prepared following acceptance of a final EIS, which declares that all SEQR requirements for making decisions on an action have been met. The findings statement identifies the social and economic, as well as environmental, considerations that have been weighed in making a decision to approve or disapprove an action… Findings provide a rationale for agency decisions, including any conditions to be attached to the agency's approval.*

The MFM Findings Statement, which was adopted by the Town Board on June 9, 2011 provides, among other things, the Town's findings and mitigation measures required to minimize, to the maximum extent practicable, potential significant adverse environmental impacts that may occur as a result of the development of the MFM District.

This section of the Expanded EA provides a Consistency Analysis of the Proposed Action with the MFM Findings Statement, including a summary of the findings and mitigation measures associated with each environmental topic analyzed in the GEIS,

[12] *The SEQR Handbook*, 4th Edition, (March 2020) accessed 4/28/20, pages 145 - 146 https://www.dec.ny.gov/docs/permits_ej_operations_pdf/seqrhandbook.pdf

and the proposed project's consistency therewith. This section also discusses the Proposed Action's overall consistency with the legislative intent of the MFM District.

As stated in Section 1, the Proposed Action involves the creation of a state-of-the-art development with the theme of "Innovation Everywhere," comprising a comprehensive mix of uses planned in consistency with the underlying MFM District. Table 12 provides a comparison of the anticipated development under the proposed CMP and the Lower-Density MFM District Alternative that was analyzed in the FGEIS.

Table 12 – Development Under the Proposed Nassau Hub Innovation District CMP and Lower-Density MFM District Alternative

Program Component[1]	Full Build-Out of Proposed Nassau Hub Innovation District	Lower-Density MFM District Alternative (MFM Findings Statement)[2]
Office Space General Office Research & Development (R&D)	950,000 SF 400,000 SF 550,000 SF	150,000 SF
Hotel	850 keys	1,353 keys
Conference/Meeting Space	175,000 SF	207,000 SF[2]
Restaurants	60,000 SF	90,500 SF[2]
Entertainment Retail	150,000 SF	275,000 SF (General Retail)
Multiplex Cinema	600 seats (46,000 SF)	2,012 seats (28,000 SF)
Theater/Performing Arts Venue	1,000 seats (57,000 SF)	--
Residential	500 units	500 units[3]

Notes:

[1]The MFM District analyzed in the FGEIS included 2,269,322 SF of structured parking, whereas the Proposed Action includes 1,030,477 SF of floor area within structured parking, as a result of the revised project plan.

[2]The traffic study included in the Lower-Density MFM District Alternatives Analysis within the FGEIS, did not include the 207,000 SF of conference/meeting space and included 60,000 SF of restaurants. In the Traffic Impact Study and Section 3.5, below, the proposed CMP traffic analysis results are compared to the results of the traffic analysis conducted as part of the MFM FGEIS.

[3]468 residential units were analyzed in the FGEIS, although 500 units are permitted by the MFM Zoning District.

As can be seen in Table 12, the proposed Nassau Hub Innovation District CMP incorporates the core elements of the MFM District Alternative analyzed in the FGEIS and is consistent with the spirit and intent of the MFM District. Based on the analysis of the Lower-Density development scenario for the MFM District, the Findings determined that, no significant adverse impacts were predicted to occur for the following environmental topics (either because none were initially identified, or if identified, they were mitigated to the maximum extent practicable): Ecological Resources; Air Quality; Noise and Vibration; Socioeconomics; Community Facilities and Services; Aesthetics and Visual Resources; Cultural Resources; Cumulative Impacts; Unavoidable Adverse Impacts; Irretrievable and Irreversible Commitment of Resources; Growth Inducing Impacts; Use and Conversation of Energy; and Sustainability.

In determining the level of environmental review required for actions that follow a final generic EIS, the SEQRA Handbook states that

the course of action following a final generic EIS will depend on the level of detail within the generic EIS, as well as the specific follow-up actions being considered. A lead agency considering a subsequent action must evaluate the generic EIS to determine whether the subsequently proposed action was not addressed, or inadequately addressed, in the generic EIS, and whether the subsequent action is likely to have one or more significant adverse environmental impacts. If significant adverse impacts of the subsequent action are identified, and they were not adequately addressed in the generic EIS, then a site-or project-specific supplemental EIS must be prepared. Many generic EISs and Findings identify the environmental issues or thresholds that would trigger the need for such as supplement. However, if the lead agency determines that the final generic EIS adequately addresses all potential significant adverse impacts of the subsequently proposed action, then no supplemental EIS is necessary.

Furthermore, 6 NYCRR §617.10(d) provides guidance relating to the level of environmental review required for actions that are proposed subsequent to the filing of an FGEIS, as follows:

(d) When a final generic EIS has been filed under this Part:

(1) no further SEQR compliance is required if a subsequent proposed action will be carried out in conformance with the conditions and thresholds established for such actions in the generic EIS or its findings statement;

(2) an amended findings statement must be prepared if the subsequent proposed action was adequately addressed in the generic EIS but was not addressed or was not adequately addressed in the findings statement for the generic EIS;

(3) a negative declaration must be prepared if a subsequent proposed action was not addressed or was not adequately addressed in the generic EIS and the subsequent action will not result in any significant environmental impacts; and

(4) a supplement to the final generic EIS must be prepared if the subsequent proposed action was not addressed or was not adequately addressed in the generic EIS and the subsequent action may have one or more significant adverse environmental impacts.

Sections 3.1 through 3.11 of this Expanded EA evaluate the impacts of the Proposed Action and identify proposed mitigation measures. This section of this Expanded EA takes the results of those analyses and compares them to the findings of the GEIS and MFM Findings Statement in order to determine the level of required environmental review pursuant to 6 NYCRR §617.10(d).

As will be demonstrated below, in this particular case, there are elements of the Proposed Action that differ somewhat from the theoretical development analyzed in the GEIS. However, this Expanded EA identifies those differences, comprehensively evaluates the impacts thereof and identifies mitigation measures to minimize impacts. Therefore, it is respectfully submitted that the level of environmental

review identified in 6 NYCRR §617.10(d)(3), above, is appropriate for this Proposed Action.

Consistency of the Nassau Hub Innovation District CMP with the MFM Findings Statement

The following section is organized by environmental impact topic. Each impact topic is followed by numbered statement, which reflect a finding or condition identified in the MFM Findings Statement. Immediately following that statement is italicized text that evaluated the Proposed Action's consistency therewith.

Geology, Subsurface Conditions, Soils and Topography

1. The MFM District restricts below grade parking to only one level in order to minimize the depth of the disturbance in the district, and the amount of soil that would be disturbed or would require removal from the site.

   The Proposed Action is consistent with this requirement. Proposed parking garages in the CMP would be constructed to have no more than one level of parking below grade. As discussed in Section 3.11.8, Construction Impacts, indicates that excavation is expected to be to a depth of approximately 10 feet. Material excavated from the site would be reused on site to the greatest extent feasible for grading, stabilization, and landscaping.

2. Plan-specific mitigation measures for hazardous materials are required when a CMP for development under the MFM District is submitted to the Town for approval.

   The FGEIS described procedures and best practices to address concerns regarding known and potential subsurface contaminants. These procedures and practices would be appropriate and applicable to development at under the proposed CMP. The recommendations of the 2015 Roux Associates report discussed in Section 3.11.4 of this Expanded EA would be implemented during site plan approval for the proposed project, as follows.

   - *Excavated material to be disposed of off-site would be sampled at a frequency sufficient to meet disposal requirements prior to excavation. All excavated material would be handled and disposed of in accordance with applicable federal, state, and local regulations.*
   - *Imported topsoil used for landscaping and other construction fill materials (if any) would consist of clean imported material from commercial suppliers.*
   - *Though previous subsurface investigations did not identify issues of significant concern, a Contingency Plan would be prepared and implemented to ensure proper handling of any environmental hazards identified during construction.*
   - *Prior to construction, each applicable trade contractor would be required to prepare a Construction Health and Safety Plan (CHASP) that would include measures for worker and community protection, including personal protective equipment, dust control and emergency response procedures.*

- *An erosion and sediment control plan (as described above) would be developed to minimize the potential for erosion and transport of materials off-site. This plan would be included as part of a stormwater pollution prevention plan (SWPPP) designed in accordance with prevailing state and local regulations to sufficiently manage stormwater generated on-site during and after construction activities.*

As the Proposed Action includes implementation of plan-specific mitigation measures for hazardous materials, it is consistent with this Finding.

Water Resources

1. A water supply analysis conducted for the development scenario in the MFM District analyzed in the FGEIS estimated a gross domestic water demand of approximately 0.728 million gallons per day (mgd), and the MFM Findings Statement indicates that it is likely a new well will be needed.

   Water demand associated with the anticipated development under the Proposed Action is projected to be 0.575 mgd (not including the Coliseum, Marriott Hotel and the MSKCC property) for the full build-out. This estimate does not include water conservation/mitigation measures that would be incorporated into the development.

   The 0.728 mgd discussed in the MFM Findings Statement included the Marriott Hotel and MSKCC properties, as well as the Coliseum (at 20,000 seats). When excluding these properties, the total water use under the MFM Alternative is 0.720 mgd. When comparing the equivalent parcels (excluding Marriott, MSKCC and the Coliseum), the water use for the anticipated development under the proposed CMP is substantially less than the threshold of 0.720 established in the MFM Findings Statement.

   Letters of water availability were submitted to the Town of Hempstead Water Department on February 20, 2020 and March 10, 2020. The applicant will continue to work with the Town to ensure there is sufficient water to meet estimated demand resulting from the anticipated development. Accordingly, the Proposed Action is consistent with this finding.

2. The MFM District regulations include sustainable design guidelines that require mitigation measures and practices to quantifiably decrease water use, liquid waste production and stormwater runoff in the district. These measures are required as part of an application for Conceptual Master Plan approval for development in the district, and for all proposed site and building plans submitted for site plan approval in accordance with an approved Master Plan.

   As described in Section 3.1, Water Resources*, the anticipated development under the proposed CMP incorporates a number of sustainability measures to reduce water use and stormwater runoff. As noted in Section 3.1.3, the following measures are proposed:*

   - *Water conservation measures, such as low-flow and/or automatic fixtures, will be used to minimize water demand.*

- *Native/adaptive planting species will be used to minimize the need for irrigation of landscaped areas.*
- *Green infrastructure (e.g., rainwater collection systems) will be used, as feasible, to offset the water demand associated with irrigation.*
- *Green rooftops will be designed to retain precipitation and reduce the need for irrigation of the same.*

Site specific and building specific plans for elements of the proposed CMP will identify the sustainable measures and practice integrated into the proposed development prior to site plan approval. Therefore, the Proposed Action is consistent with this finding.

Stormwater Management

1. Stormwater management plans for CMP and site plans submitted for approval of development within the MFM District are required to be prepared in accordance with NYSDEC GP-0-08-001 (stormwater general permit).

   As discussed in Section 3.2.2, stormwater runoff would be handled via an updated positive drainage system of on-site drainage pipes and structures (e.g., catch basins and storm drains, etc.) installed within the roadways of the proposed development. Stormwater runoff would then be discharged to Nassau County recharge basin #537 which has sufficient capacity (2.1 million cf) to accommodate stormwater runoff generated by the Proposed Action under a 5-inch rainfall event. Consistent with the MFM Findings Statement, a SWPPP will be completed upon approval of the CMP in accordance with the latest NYSDEC General Permit for Stormwater Management (currently GP-0-20-001), Article XXXVIII of the Town of Hempstead, Stormwater Management and Erosion and Sediment Control, and the requirements of the MFM District. As such, the Proposed Action is consistent with this finding.

2. Upon approval of a CMP for development in the MFM District, SWPPP plans must be completed, and all approvals (NYSDEC, NCDPW, NYSDOT) must be obtained by the applicant prior to site plan approval.

   As discussed in Section 3.11.8, a SWPPP would be prepared at the time of site plan approval, in accordance with latest New York State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity (GP-0-08-001). Section 3.11.8 includes a description of the erosion and sediment control measures proposed as part of the CMP. The applicant will obtain all required approvals prior to site plan approval. As such, the Proposed Action is consistent with this finding.

3. It is expected that stormwater management measures would be sufficient to mitigate stormwater impacts in the MFM District, and sustainable design guideline requirements would further ensure that measures and practices are in place to quantifiably decrease stormwater runoff in order to further minimize potential adverse impacts.

The Findings identified various stormwater management measures that, if applied, would sufficiently mitigate stormwater impacts. Such measures included: a reduction in impervious surfaces; continued connection to, and use of, Nassau County recharge basin #537; exclusion of direct discharges to surface waters; and preparation of a stormwater pollution prevention plan, in accordance with the presiding regulations of the NYSDEC and the Town of Hempstead.

Consistent with the Findings, and in accordance with §146.1P(2)(e)[8] of the MFM District, the anticipated development under the proposed CMP would result in a decrease in impervious surfaces on the Subject Property, which would mitigate potential stormwater runoff impacts. As described in Section 3.2.2, a reduction in the amount of impervious surface would reduce the amount of stormwater runoff generated and ultimately discharged to the Nassau County recharge basin located on the south side of Hempstead Turnpike (#537).

In addition, the proposed stormwater management system would ensure that stormwater runoff would be captured and conveyed off-site, precluding stormwater from running overland and potentially impacting adjacent properties or nearby surface waters. Also, proper maintenance of the stormwater structures would be employed to ensure that the system operates properly, and inappropriate discharges would be prevented.

Implementation of the proposed erosion and sediment control measures, as described in Section 3.11.8, would minimize impacts to the quality of stormwater runoff. Green Site and Building measures, as required by the MFM District would decrease stormwater runoff. Examples of sustainable design measures being contemplated by the Applicant for incorporation into the project design include the use of green roofs, and green infrastructure (such as rainwater collection systems).

Furthermore, the anticipated development under the proposed CMP has a FAR of 1.6, consistent with what was analyzed in the FGEIS and indicated in the MFM Findings Statement.

By implementing the proposed stormwater management system, not exceeding the FAR analyzed, and by reducing the amount of impervious surface (and thus, the amount of stormwater runoff generated), the anticipated development is consistent with this finding.

<u>Ecological Resources</u>

1. The number of acres that could be developed within the MFM Lower-Density District Alternative is comprised of 91.2 acres of already developed land, limiting the potential adverse impacts to wetlands, wetland buffer habitats, remaining grassland habitats and associated resident wildlife.

   There are no wetlands or wetland buffer habitats located on or adjacent to the Subject Property. Furthermore, the Subject Property is not directly adjacent to

grassland habitats and associated resident wildlife, since it is separated from the Hempstead Plains by a roadway to the east. Therefore, implementation of the proposed CMP would not impact such resources. Previous environmental studies have demonstrated that the Subject Property has limited ecological value for both plant and wildlife species, and development would be at the same intensity as analyzed in the FGEIS and MFM Findings Statement. Therefore, the Proposed Action would be consistent with this finding.

2. The vacant RXR West parcel is not included in the MFM District and therefore impacts to this parcel, including the Hempstead Plains habitat would be avoided.

   The vacant RXR West parcel is not included in the MFM District and is not part of the anticipated development under the proposed CMP. The Proposed Action is thus consistent with this finding.

3. The development scenario used as the basis for the MFM District only requires limited interchange improvements on the Meadowbrook Parkway at Hempstead Turnpike. Therefore, impacts to wetlands and wetland buffers would be minimal.

   As noted in Section 3.3.2, no portion of the anticipated development or associated proposed mitigation measures would impact wetlands or wetland buffers as these features are also absent from the Subject Property. Conversely, the Proposed Action is expected to have a positive effect on ecological features by providing additional landscaping. Development of the Nassau Hub Innovation District CMP would result in an increase of pervious and landscaped areas from 6.6± to 10.5± acres, at a minimum, with a corresponding decrease in impervious surface coverage. Although not yet specifically designed, the additional landscaped areas are proposed to be improved with native plant species that would provide additional habitat for suburban wildlife species. Furthermore, based on the analysis of traffic impacts associated with the anticipated development contained in Section 3.5.2, no improvements to the Meadowbrook Parkway or interchange improvements associated with the Meadowbrook Parkway at Hempstead Turnpike are proposed. Therefore, there would be no impact to wetlands/wetland buffers in this area. Accordingly, the Proposed Action is consistent with this finding.

<u>Zoning, Land Use and Community Character</u>

1. The MFM District regulations state the special purpose of the new district as follows: to preserve and protect the special character of the greater Mitchel Field area and those of surrounding neighborhoods; to promote the desirable and suitable use of land within the greater Mitchel Field area and to provide opportunities for development or redevelopment of land surrounding the Nassau Veterans Memorial Coliseum in a manner consistent with sound planning principles; to promote, encourage and achieve the highest quality sustainable development that preserves, protects and enhances the environmental, economic and human resources of the Town of

Hempstead; to promote innovative and quality site and architectural design for mixed use buildings and neighborhoods that will encourage economic investment and development, and will provide housing, amenities and employment opportunities for current and future residents in accordance with a well-considered Conceptual Master Plan for the district; to create an attractive physical environmental that provides daily amenities and services for the use and enjoyment of working, resident and visiting populations; to achieve harmonious visual and functional use relationships within the district and with adjacent neighborhoods; to promote integration of pedestrian amenities and public transportation into the public streets and roadways of new mixed use neighborhoods to facilitate walking, encourage the use of public transportation, and accommodate alternate modes of transportation that provide access to destinations within the district, and to and from surrounding communities within the Town.

As discussed in detail in Section 3.4.2, the anticipated development under the proposed CMP conforms with the legislative intent of the MFM District, and the Town's vision for redevelopment of the Subject Property. To achieve the goals outlined in the MFM District, the Nassau Hub Innovation District incorporates four guiding principles (land use, urban design, open space and mobility) with specific strategies aimed at addressing these principles and realizing the CMP vision.

For example, the Land Use strategies involve providing opportunities and services within a short walking distance of where people live and work, creating a landscape of complementary uses that attract a diversity of users and foster synergies and activating spaces. Strategies regarding Urban Design involve creating an active streetscape that focuses on the ground level (pedestrian) experience and considers a range of opportunities to extend outdoor space onto the public realm. Mobility strategies are centered around creating a walkable environment, emphasizing pedestrians and bicyclists and promoting traffic calming on internal streets. Enhancing mobility also includes making the redeveloped site a connected destination by providing clear and intuitive access to the wider community and enhancing visibility to create a clear identity. Open space strategies include creating a network of public spaces that serve multiple purposes connected by an activated streetscape. Together, these strategies address the intent of the MFM District, described above. Thus, the Proposed Action is consistent with this finding.

2. The maximum floor area ratio permitted in the MFM District is 1.6.

   The Proposed Action would be developed with a FAR of 1.6 in accordance with the MFM District. and is thus consistent with this finding.

3. The MFM District regulations require north/south and east/west public rights-of way that connect to important existing area roadways to, by design of the site, improve traffic distribution and flow through and around the new district. The required boulevards and streets would be "complete streets"

with specific design requirements that integrate pedestrian amenities, bicycle lanes, landscaping, and public transportation. The following rights-of-way and connections would be required: a 120-foot wide north/south right-of-way connecting Glenn Curtiss Boulevard to Charles Lindbergh Boulevard; a 120-foot wide east/west right-of-way connecting Earl Ovington Boulevard to James Doolittle Boulevard; an 80-foot wide east/west right-of-way to connect the Glenn Curtiss Boulevard/Charles Lindbergh Boulevard connecting right-of-way to Earl Ovington Boulevard; an 80-foot wide north/south right-of-way to connect Hempstead Turnpike with the east/west right-of-way connecting Earl Ovington Boulevard with the Glenn Curtiss Boulevard/Charles Lindberg Boulevard connecting right-of-way.

As discussed in Section 3.4.1, through the approval of the NEC CMP, the Town Board approved several modifications of the MFM District resulting in changes to the width of public rights-of-way of the interior roadways. The adjustments in road width for the Subject Property are applicable for future development on the site. More specifically, as adopted by the approval resolution (see Appendix A), the widths of public right-of-way of the interior roadways were reduced for all interior roadways running north/south and east/west as follows: the north/south right-of-way connecting Glenn Curtiss Boulevard to Charles Lindbergh boulevard from 120 feet wide to 90 feet; the east/west right-of-way connecting Earle Ovington Boulevard to James Doolittle Boulevard from 120 feet wide to 60 feet; the easterly north/south right-of-way road to Earle Ovington Boulevard from 80 feet wide to 60 feet; and the north/south right-of-way connection Hempstead Turnpike to Northerly east/west road from 80 feet to 60 feet. In addition, changes to certain elements of the "Complete Streets" requirements in conjunction with the modifications of the public rights-of-way of the interior roadways (e.g., the width and location of certain planted medians, the provision of on-street bicycle lanes, on-street parallel parking, pedestrian walkways on both sides of the interior roads) were also adopted. Based on the foregoing, the MFM District, as well as the 2015 approved NEC CMP (with the modifications cited above), serve as the basis for the redevelopment of the Subject Property under the proposed CMP. Specifically, the proposed CMP identifies three distinct street types; primary (wide) streets, secondary (narrow) streets, and shared streets, with roadway widths ranging from 80 feet to 60 feet, with various complete street elements incorporated into each. As such, the proposed CMP is consistent with this finding.

4. In addition to conforming to the requirements of the Town of Hempstead Highway Department, the MFM District regulations require that new rights-of-way within the district be developed as "complete streets" to promote integration of pedestrian amenities and public transportation into the public streets and roadways of the new mixed-use neighborhood that would facilitate walking, encourage the use of public transportation, and accommodate alternate modes of transportation such as bicycles.

As discussed above and in Sections 3.4.2 and 3.5.2, new rights-of-way within the proposed development will incorporate "complete streets" elements to facilitate walking, bicycling, and the use of public transportation.

5. Required parking spaces may be provided as open surface parking or in a parking facility located in the same building, or in a free-standing structure on the same lot as the permitted use or uses on a lot, or within three hundred (300) feet of the perimeter of the lot upon which the permitted use or uses are located. A maximum of one level of parking may be located in a basement that is one level below the ground story of the building or parking structure.

   Four types of parking are considered under the CMP: surface, structured, underground and street parking to accommodate different uses and volumes of traffic. The proposed CMP, including parking facilities and structures have been designed in accordance with the MFM District Design Standards and Guidelines which encourage the appropriate location, arrangement and design of the various development components. As outlined in the Design Standards and Guidelines, the parking structures contemplated under the CMP would include façades that soften views of the structures from the public as well as to allow for natural air circulation. The installation of vegetation on and around all parking structures would soften the appearance of the structures. These features would also conceal views of the parked cars and, when in use, their headlights. The proposed CMP includes 2,188 "below grade" parking spaces that are a maximum of one level below the ground story of the building or parking structure. Based on the foregoing, the Proposed Action is consistent with this finding.

6. An application for development in the MFM District would require a Shared Parking Analysis to be prepared by a qualified professional to efficiently provide parking in the district. The Town Board would consider the Shared Parking Analysis to determine the overall parking requirement for the particular mix of uses proposed in the Conceptual Master Plan.

   A Shared Parking Analysis is included in the Traffic Impact and Parking Analysis (Appendix E) of this Expanded EA. The analysis clearly indicates that the proposed parking would be more than adequate to support the mix of uses on the site, with stalls located convenient to each of the uses. Thus, the Proposed Action is consistent with this finding.

7. On-street parking along the street frontages of lots or premises used for non-residential and mixed-use purposes on all new rights-of-way within the district would be permitted.

   Consistent with this finding, the anticipated development provides 181 on-street parking spaces along the internal roadway network for non-residential and mixed-use purposes.

8. In addition to the Nassau Coliseum, a lot, or premise must be used for at least two or more of the purposes provided in the Findings, and in §146.1(C) of the Town of Hempstead Building Zone Ordinance.

   The proposed CMP provides for more than two of the permitted uses in the MFM District, including entertainment retail, residential, R & D and office, restaurant, hotel, conference/meeting space, multiplex cinema, theater/performing arts, structured parking, and open space, in compliance with the Findings, and Town Code.

9. At least three percent (3%) of the district land area, exclusive of land set aside for public boulevards and streets, would be set aside as public park land. Additional open space would be required for residential uses. Buildings containing only dwelling units would require 1,000 SF of open space for each dwelling unit and mixed-use residential buildings would require 500 SF of open space for each unit.

   The MFM District requires three percent of developable land (in the case of the Subject Property this translates to 78,978 SF) to be set aside for public parkland. As explained in Section 3.3.2, the anticipated development under the proposed CMP incorporates three percent (85,600 SF) of the developable land for parkland set aside, thus exceeding the required public parkland minimum by approximately 6,600 SF, in compliance with this finding. Moreover, the Applicant intends to refine the landscape design; therefore, once specific site plan designs have been prepared, the amount of public parkland is expected to increase. In no scenario would the amount of such space fall below the 85,600 SF currently indicated.

   Sections 1.2 and 3.4 note that open space strategies have been developed for the Nassau Hub Innovation District that include creating a network of public spaces that serve multiple purposes connected by an activated streetscape. Tactics include providing gathering spaces, parks and plaza and rooftop parks for events and activities, and including special features in the landscape, including art installations and water features. The Nassau Hub Innovation District is anticipated to contain at least 85,600 SF of public open space, exceeding the MFM District requirement, as well as another 265,000 SF of open space associated with the residential development, pursuant to the MFM District. The final square footage of green space and public open space will be determined as the plans are further developed but will in no case be less that what is indicated above. Thus, the anticipated development under the proposed CMP complies with this finding.

10. Except for the Nassau Coliseum and hotels, the maximum height of residential buildings would be three stories (maximum of 40 feet high), and the maximum height of mixed-use residential or commercial buildings would be four stories (maximum of 60 feet high).

As explained in Section 3.4.2, the Applicant is requesting a modification of the height requirements for non-residential, mixed-use commercial and residential buildings of up to eight stories and 100 feet to allow for flexibility. This height would be comparable, and no higher than, the height already permitted for hotels in the MFM District, consistent with the heights of buildings that have been constructed in the Town, and lower than buildings within the immediate area (e.g., Marriott Hotel, Hofstra, RXR Plaza and the Omni building). The flexibility in height would allow for differing elevations that would enhance the visual interest at the Subject Property. It would also permit the Applicant to achieve the permitted FAR, while expanding the opportunity for more public open space and green space. Therefore, while a height modification is requested, proposed building heights would conform to the permitted heights of other building types in the MFM District and of existing buildings surrounding the property, as contemplated by this finding. Furthermore, as contemplated by this finding, setbacks would increase with relative increases in building heights.

11. A free-standing parking structure or the portion of a mixed-use building used for parking would be no more than 40 feet high.

    As noted in Section 1.2, the Applicant is requesting a modification of the requirements of §146.1(H)(3) to permit parking structures to reach a height of 46 feet and to increase to a permitted height of 52 feet if refuse and delivery services areas are located within the ground floor of said parking structures, whereas § 146.1(H)(30) currently permits a maximum height of 40 feet for parking garages. Also, a modification is being requested under §146.1(H)(3) to exclude rooftop green infrastructure, such as solar panels and greenhouses, from the maximum permitted height calculation.

    The addition of six feet would accommodate the minimum clearance heights for parking. Adding six feet would allow four levels of parking above the ground level, thereby reducing the overall footprint of the parking structures. The requested increase of an additional six feet (to 52 feet) would allow for refuse storage and removal on the lower level of parking structures and to allow clearance for delivery trucks to access the rear entrances to the retail stores, which would alleviate both a physical and visual issue related to back-of-house activities. Additionally, the Applicant is anticipating installation of rooftop green infrastructure and solar panels on the top level of parking structures that would serve a community benefit. These rooftop structures would be visible to passersby along Earle Ovington Boulevard, as well as off-site uses and the pedestrian bridge to the west and southwest of the Subject Property. The proposed on-site buildings would mostly block such facilities from the residential uses located south of Hempstead Turnpike. In addition, the parking facilities, even at a height of 52 feet, would remain significantly lower than other building heights permitted in the MFM District, and existing buildings located in the area surrounding the Subject Property.

12. Hotels would be no more than 100 feet in height.

    The proposed CMP proposes a maximum height for hotel uses of 100 feet which is consistent with the Findings and §146.1(C) of the Town of Hempstead Building Zone Ordinance.

13. No more than 500 residential units would be permitted in the MFM District. A total of twenty percent of the 500 allowable residential units would be affordable and next generation/workforce units broken down as follows: ten percent would be affordable units that are affordable to households with total annual incomes not exceeding 80% of the median annual income for its household size in Nassau County, and ten percent would be next-generation/workforce units defined as affordable to households with total annual incomes not exceeding 120% of the median annual income for its household size.

    As discussed in Section 3.4.2, consistent with the Findings, the multifamily residential component of the Proposed Action would be limited to 500 units with 20% (100 units) being next generation/workforce housing, as defined in Article XIII, Section 137 of the BZO.

14. Gated residential communities would be prohibited, and the building area of buildings used only for residential purposes would not exceed 35% of the lot area.

    The anticipated development under the proposed CMP does not include any gated residential communities. The proposed 500 new residential units would be contained within mixed-use buildings.

15. The Conceptual Master Plan of a development proposal in the district would be required to include sustainable site and building practices with respect to design, construction methods and materials, and post-construction operation and maintenance of all proposed projects in the district to quantifiably reduce anticipated energy demand, water use, generation of solid and liquid waste, storm water runoff, and the use of private cars to levels below those that would result using standard design, construction, operation and maintenance practices to preserve and protect the natural resources, air quality and water supply of the Town.

    In order to reduce potential adverse environmental impacts associated with energy demand, water use, generation of solid and liquid waste, storm water runoff, and the use of private cars, the anticipated development would comply with the sustainable site and building practices, construction methods and materials, and post-construction operation and maintenance standards as set forth in the MFM District.

16. Site plans would be required to include open space, commons; or small pedestrian plazas with amenities such as benches or other seating, water features, night lighting, public art, bicycle parking and landscape plantings. Parking lots, access driveways, and pedestrian walkways would be designed

to avoid or minimize the potential for pedestrian/vehicle conflicts and provide a safe and amenable pedestrian environment.

Parks and plazas throughout the Subject Property would be part of the pedestrian circulation network while offering flexible connections separate from vehicular traffic. They would reflect the design scheme of each district by alternating between hard squares and pocket parks and incorporating landscape and water management systems throughout. Parking lots, access driveways, and pedestrian walkways would be designed in accordance with the MFM District's Design Standards and Guidelines. For example, the pedestrian realm would be safe, accessible, active and vibrant while connecting to the surrounding areas. The Design Standards and Guidelines provide tactical recommendations as how to achieve successful pedestrian walkways. Such tactics include: using green infrastructure to enhance streetscape and provide shade and shelter; creating permeable frontages and activating walkways with spill-out activities (e.g., sidewalk café, benches); maximizing the percentage of walkway segments with visual connections to interior building activity; ensuring seamless connections through crosswalks and bridges; designing intersections will all-accessible crosswalks; and including shared curbless streets that prioritize the pedestrian. Based on the forgoing, the Proposed Action is consistent with this finding.

17. Small green spaces, courtyards, squares, plazas, and similar spaces would be required to function as community gathering places and would be utilized and located to provide transitions between lots or premises and ensure compatibility with other uses in the district and the surrounding community. Street and open space furnishings, including drinking fountains, light standards, litter receptacles, benches, bollards, kiosks, small pavilions, informational and directional graphics, public telephones, moveable planters, tree grates, tree guards, public art and similar items, lighting and signage would be part of a designed system of elements used to create a district-wide identity and individual identities for parks, open spaces, plazas, courtyards and squares that are public or part of individual premises or lots.

    As discussed in Section 3.9.2, outdoor open spaces, and activity areas (e.g., green spaces, courtyards, squares, plazas, and similar spaces) throughout the Subject Property would be designed to connect with the activated streetscape. Specifically, the three internal districts would contain small green spaces and community gathering spaces designed to fit the need and design of each district. The Sports and Entertainment District would include large gathering spaces designed to accommodate crowds for events for concerts and festivals. Additionally, pop-up furniture or smart street elements would be used to address the need for flexibility of such spaces. Outdoor spaces contemplated for the Town Center District are to focus on community activities, like yoga classes or food markets. Shared streets would be designed to work as a plaza, hosting temporary events, like markets or community parities and green rooftops could be used to introduce a semi-private type of gathering space. Lastly, outdoor

spaces contemplated for the Innovation District would be designed to spur the interactions of people by creating meeting points, crossed circulations and relaxing common areas which foster activity. Additionally, green rooftops can be incorporated to provide semi-public meeting areas and outdoor spaces close to working areas. The objective in the CMP is to create an environment with visual continuity and a user-friendly public realm. Development of the Nassau Hub Innovation District would create a sense of place and identity and connect all elements of the development, consistent with this finding.

Transportation and Parking

1. The MFM District Alternative Study Build-out is anticipated to generate 2,496, 3,383 and 4,624 additional gross, unadjusted new trips during the weekday morning, weekday afternoon and Saturday midday peak hours, respectively. After applying the internal capture rates, pass-by trip credits and alternative mode reduction, the MFM District Alternative Study Build-out is anticipated to generate 1,739, 1,997 and 2,997 net new vehicle trips during the weekday morning, weekday afternoon and Saturday midday peak hours of the adjacent street system, respectively.

   The study performed for the Nassau Hub Innovation District indicates the Full Build development plan for the proposed CMP would generate 1,921, 3,788 and 3,085 gross, unadjusted new trips during the weekday morning, weekday afternoon and Saturday midday peak hours, respectively. After applying the internal captures rates, pass-by trip credits and credits for transit use, the CMP Full Build would generate 1,509, 2,770 and 2,033 net new trips during these same time periods, respectively.

   In comparison to the MFM District Alternative (see Table 12, Note 2 regarding land use components analyzed in the MFM FGEIS traffic study) net trips generated by the proposed CMP, after credits for internal capture, pass-by and the use of transit are considered, would be similar, albeit with lower volumes of traffic generated by the proposed CMP during the a.m. peak hour (1,509 total trips v. 1,739 total trips) and Saturday midday peak hour (2,033 total trips v. 2,997 total trips). Although the proposed CMP would generate a higher volume of traffic during the p.m. peak hour (2,770 total trips v. 1,997 total trips), the TIS concludes that with the mitigation measures proposed, the additional traffic in the p.m. peak hour can be accommodated on the area roadway system. Based on the foregoing, the Proposed Action is generally consistent with this finding.

2. In addition to the existing parking facilities serving the Omni and RXR Plaza parcels, the MFM District Alternative Study Build-out will generate an additional parking demand of 14,858, 17,358 and 17,358 parking spaces based on the Town Code requirements and the Urban Land Institute (ULI) weekday and weekend base parking ratios, respectively. The MFM District Alternative Study Build-out estimated shared parking requirement was found to be 6,998, 9,529 and 10,823 parking spaces during weekday November 2:00

P.M., weekday November 6:00 P.M. and Saturday November 2:00 P.M., respectively.

Similar to the FGEIS, a Shared Parking Analysis was performed for the Nassau Hub Innovation District following the procedures and data outlined in the ULI Shared Parking Manual, 2nd Edition, as well as data contained in ITE's Parking Generation, 5th Edition. *ULI's* Shared Parking Manual *(as used in the MFM District Alternative Study) sets forth a methodology for calculating peak shared parking demands on a mixed-use site by calculating the hourly, daily and monthly variations in parking demand for each distinct use on a site and combining all the distinct demands each hour of each day for every calendar month to identify the composite peak demand on a mixed-use site. The ITE* Parking Generation Manual *utilizes similar time-of-day factors to determine the peak demand for each use as well. Utilizing these time of day percentages for each of the uses enumerated above, as well as the parking rates from the ULI and ITE Publications, a spreadsheet was created to calculate each individual uses peak parking demand and the variations in hourly activity. This analysis included the parking demand for heavily attended events at the Nassau Coliseum.*

As detailed in the TIS (Appendix E), based on the Shared Parking Analysis, the anticipated development would generate a total parking demand of 5,677 vehicles at 1:00 p.m. on a weekday and a total parking demand of 3,860 vehicles at 1:00 p.m. on a Saturday. As depicted on the proposed CMP, 6,750 parking stalls would be constructed on the premises in the Full Build Condition. Accordingly, the peak parking demand throughout the day on a typical weekday or Saturday can be accommodated on the premises without accounting for other off-site considerations. However, including an event at the Coliseum, (the resulting traffic generated by an Islanders game, which was (used as a conservative high-side example) causes the peak parking demand at 8:00 p.m. to be 6,748 parked vehicles on a weekday and 7,240 parked vehicles on a Saturday. While the parking demand with an event on the weekday could be accommodated within the premises, there would be minimal additional capacity for any variation in the 6,750 parking stalls provided. Additionally, the parking generated on a Saturday would exceed the capacity on the premises. However, there are multiple additional considerations at these times to accommodate that additional traffic. This includes the utilization of the parking structure at the existing Memorial Sloan Kettering Facility (which provides 400 additional spaces) as well as the utilization of the parking provided at the nearby Omni and RXR Plaza office buildings (which provide an additional 6,000 parking spaces in total). At the relevant times during the 8:00 p.m. event peak hour, the offices which utilize these parking areas, are closed for business, freeing up the additional parking availability. As a result, similar to the considerations made for the previous MFM District Alternative Study, the Applicant would be directing parking activity to these areas during an event should the on-site parking activity exceed the provided capacity. Consistent with this finding and based on the foregoing, the Proposed Action used the

shared parking methodology previously incorporated into the FGEIS, included the evaluation of an event at the Coliseum and accounted for the use of off-premises parking to meet the excess demand produced during an event period, which occurs on a limited basis.

3. Future Major Development under the proposed MFM District Alternative will require a Highway Safety Investigation study as required by The New York State Department of Transportation and a Crash History for the latest three years available for the remaining Study Area nodes and segments be included in the Traffic Access and Impact Study

   Consistent with this finding, the TIS (Appendix E) contains a summary of the crash history data for the latest three-year period available and a detailed review of that data. The need for the performance of a Highway Safety Investigation will be determined upon the NYSDOT's review of the study and identification of any such currently identified locations.

4. The density and layout of the MFM District were created to ensure that future development would not significantly impact traffic in the area. For, example, four public rights-of way were required to be designed and developed as "complete streets" to connect the development to important existing area roadways, to improve traffic distribution and traffic flow through and around the new district.

   The proposed CMP has been developed to conform to the density permitted in the MFM District. As detailed in the TIS, mitigation measures have been developed that would ensure that the traffic generated by the anticipated development does not cause significant adverse traffic impacts to the surrounding roadway network. Additionally, the public rights-of-way were codified in the MFM District, but modified in the subsequent approval for the NEC development, as described in Section 1.2. Consistent with this finding, the internal roadway system has been designed to comply with the public rights-of-way approved in the 2015 NEC CMP. As described in Section 3.4, these rights-of-way connect to the surrounding road network, which would improve the traffic distribution and flow throughout and around the Subject Property. The rights-of-way would be "complete streets" incorporating safe access for all types of users, including motorists, public transit users (including BRT users), bicyclists and pedestrians. Among other features, these internal streets would include sidewalks, street trees, protected bike lanes, planting strips, medians, street furnishings, transit stops, lighting and wayfinding signage, as depicted in Section 3.4.2.

5. The MFM District Lower-Density Alternative reflects a manageable traffic demand that can be realistically handled by the transportation system with the implementation of mitigation, as proposed in the FGEIS. With such mitigation, the traffic generated by the MFM Alternative would not significantly impact traffic operations along Hempstead Turnpike, Earle

Ovington Boulevard, Charles Lindbergh Boulevard and the Meadowbrook Parkway Interchange at Hempstead Turnpike.

The TIS (Appendix E) provides detailed capacity analysis of all study locations using the currently accepted evaluation tool to quantify operating conditions without and with the proposed development. The analysis was performed for the 2019 existing conditions, 2024 No-Build and Phase I Build, and 2027 Full Build Conditions. The MFM District Alternative Study results, while developed with the appropriate analysis tools at that time, are not comparable to the results for the Innovation District for several reasons including changes in background traffic, different sources of trip generation data, different traffic signal and systems timings and earlier generations of traffic modeling software. The improvements identified as mitigation for each phase were sourced from the overall mitigation package proposed for the MFM District. Where impacts to operating conditions were found to require mitigation, the mitigation proposed in the MFM District Alternative Study was tested first. If that mitigation successfully minimized the impact it was adopted for use for the Nassau Hub Innovation District. Additional mitigation was explored if necessary and in locations where the MFM District Alternative Study did not propose mitigation. It is noted that the introduction of the Nassau Hub Innovation District traffic did not have a significant effect on operating conditions at the Meadowbrook Parkway's ramp connections to Hempstead Turnpike and the consideration of construction of a single-point-diamond interchange was not justified by the project. The mitigation measures developed for each phase are detailed in the TIS (Appendix E) and summarized in Section 3.5 of this Expanded EA. Upon examination, with the proposed access plan and implementation of the improvements (mitigation measures) identified in the TIS, the additional traffic due to the development of the Nassau Hub Innovation District can be accommodated on the adjacent roadways and study intersections evaluated and would not result in significant impacts to traffic conditions on area roadways. Thus, the traffic impacts associated with the anticipated development would be mitigated, consistent with this finding.

<u>Air Quality</u>

1. The construction of development in the MFM District would produce air emissions increases at and around the project area. Since no adverse effects to air quality are expected, monitoring has not been included as a component of proposed activities in the district. Further, mitigation measures beyond typical dust suppression activities should not be necessary since construction air quality impacts will be short-term and relatively minor in nature.

   Air quality impacts from construction and mitigation measures to limit them are addressed in Section 3.11.12. Mitigation measures for construction include limiting and suppressing dust generation and carry-out and reducing diesel emissions from construction equipment and construction trucks. Contractors will implement also typical dust control measures, as required, such as use of

water trucks for spray-down, covering storage piles, and will generally use "good housekeeping" practices. As such, the anticipated development will conform to this finding.

2. The air quality analysis of the MFM District Alternative focused on carbon monoxide (CO) and particulate matter (PM, primarily $PM_{2.5}$), associated with traffic generated by potential development. CO and $PM_{2.5}$ are significant pollutants from an air quality perspective. Based on the traffic screening analysis performed, no quantitative air quality analysis was required; therefore, air quality impacts are considered insignificant and no air quality mitigation measures are necessary. The traffic mitigation will control air emissions, and this will be sufficient and appropriate, from an air quality perspective.

   As examined in Section 3.6.2, the Subject Property is located in the CO and $PM_{2.5}$ maintenance areas. Screening was conducted and it found that two intersections failed the capture criteria screening. Further screening (Volume Threshold Screening) was conducted and no intersections failed. However, two intersections were chosen for hot-spot analysis. The results of the hot-spot air quality analysis indicate that predicted concentrations under the Full Build condition are below the predicted concentrations under the No Action/No Build condition at the worst impacted intersections. The results also show that predicted concentrations were well below the relevant ambient air quality standards. Consistent with this finding, traffic mitigation (which would adequately improve traffic flow) would control air emissions and this would be sufficient and appropriate from an air quality perspective; therefore, there would be no significant air quality impacts from the project-generated mobile source emissions.

Noise and Vibration

1. The estimated sound levels for development in the MFM District Alternative are based on the combined or cumulative levels of the noise levels under the No Build condition and the additional noise contributions from potential stationary noise sources and induced traffic as a result of development within the MFM District Alternative. Other than the typical neighborhood activities such as landscaping, waste removal, which may produce transient undesirable noises, no new pure tone or impulse noise generating equipment installation or activity on site would be expected. Per the MFM Findings Statement, the projected noise levels under the MFM District Alternative are estimated to fall well below threshold levels for applicable noise criteria and guidance. As such, no mitigation measures are explicitly required by rule.

   Since the uses within the anticipated development are similar to those examined in the FGEIS and noted in the MFM Findings Statement, and the amount of anticipated development (FAR 1.6) is no higher than permitted by the MFM zoning, no mitigation measures would be required, based on the Findings Statement. Nevertheless, a noise impact analysis of the anticipated

development program uses was performed and is included in Sections 3.7.1 and 3.7.2. The analysis demonstrated that although there would be small increases in noise, the increases in traffic noise would be below the NYSDEC impact criterion at all receptors and there would be no significant adverse noise impact due to the Proposed Action. With respect to the HUD Noise Assessment, the noise impact to the new residential development introduced on-site would be is below the HUD Noise Standard of 65 Ldn, which is considered an acceptable exterior noise environment. The impacts associated with stationary noise sources would be minimized by distance and by the use of acoustic shielding from the edge of building rooftops. Sound attenuation features will be incorporated into the mechanical design. Therefore, noise associated with the proposed project would be well below the impact threshold levels according to applicable noise criteria and guidance, and thus would be consistent with this finding.

2. Since surrounding uses are not noise-sensitive and no noise or vibration impacts were identified for the larger, denser Lighthouse Proposed Action, no noise or vibration impacts are expected from development under the MFM District Alternative.

   Since the uses surrounding the site have not changed since the time of the MFM Findings Statement, as demonstrated herein and in Section 1.2, and the intensity of the uses proposed in the anticipated development aligns with that permitted by the MFM District, this Finding remains valid with respect to noise and vibration impacts.

<u>Socioeconomics</u>

1. The MFM District Alternative regulations would limit the number of new residential units in the district to a maximum of 500.

   The anticipated development includes the maximum number of residential units (500) permitted by the MFM District. Therefore, the proposed project is consistent with this finding.

2. The FGEIS used the 2006 Rutgers University "Residential Demographic Multipliers" in estimating the number of school-aged children to be generated by the site. The assumption of 500 four-bedroom townhouses, which was used in the analysis, generated 595 school-aged children in the MFM District.

   The anticipated development is consistent with the maximum 500 units permitted by the MFM District. However, given the type of multifamily units imagined by the Applicant, the anticipated number of school aged children that would be generated by the proposed development is significantly less, as demonstrated in Section 3.8.2.

   The FGEIS assumed 500 four-bedroom, owner-occupied townhouses (single-family detached units). Based on the foregoing, the Rutgers Study, which was used to analyze school-aged children, projected 595 students. For the current

proposal, more recent, Long Island data from over 4,000 multifamily apartments were used to estimate the ratio of school-aged children per unit. This study found an average of 0.09 student per unit. Therefore, consistent with the Findings, and as demonstrated in Section 3.8.2, the residential development in the anticipated development would have significantly fewer school-aged children (500 units x 0.09 students per unit = 45) than previously anticipated.

Community Facilities and Services

1. The maximum number of residential units allowable in the MFM District would be 500 units, limiting the maximum number of new residents, and associated impacts to those that can be mitigated by feasible means.

   The anticipated development under the proposed CMP includes the maximum permitted number of residential units (500) in the MFM District. As discussed in Section 3.8.2, a theoretical unit mix was used for the purpose of developing a conservative estimate of population for the 500 units. As the CMP will be developed over multiple years and the ultimate development will be influenced by market conditions as uses are constructed, the final unit mix cannot be precisely determined. However, based on the foregoing, the number of new residents associated with these units has been estimated at approximately 1,450. Based on the analyses presented in Section 3.8.2, no significant adverse impacts to community facilities including fire, ambulance, police, and solid waste, are anticipated from the estimated population. Accordingly, the Proposed Action is consistent with this finding.

2. Building heights would be limited to the heights of existing local low, mid-scale and tall buildings surrounding the site, which would minimize the impacts to fire-fighting capabilities.

   As discussed in Section 3.9.2, the Findings Statement evaluated the impacts on fire protection services for buildings up to 100 feet in height (hotels) and determined that limiting building heights to those comparable to surrounding buildings, as indicated above, would reduce impacts to firefighting capabilities, as indicated. Therefore, since 1) the Applicant is requesting a modification of building heights of up to 100 feet, 2) the Proposed Action includes buildings that range between 20 feet and 100 feet, which is within the heights addressed in the MFM Findings Statement, and 3) since the buildings in the anticipated development would be no taller than buildings in the immediate area that exceed 100 feet in height, implementation of the Proposed Action would not result in significant adverse impacts to fire protection services from the standpoint of building height. Thus, the Proposed Action complies with this finding.

3. The MFM District regulations regarding the number of permitted units intends to minimize, to the extent practicable, demand for water, police, fire and emergency services as well as other community facilities including libraries, senior transportation services and local school districts.

The density (FAR 1.6) and number of residential units (500) are what was contemplated in the MFM Findings Statement. The analyses of the impacts on community facilities included in Section 3.8 and Section 3.2, with regard to water resources, illustrates that the Proposed Action would have similar impacts as to what was analyzed in the FGEIS. Furthermore, the measures incorporated into the anticipated development, as outlined in Section 3.8.3, including, but not limited to, ensuring accessibility of all buildings and roadways to emergency service providers, establishing security staffing and protocols by individual tenants as well as developing a site-wide security plan, limiting the building heights to more than 100 feet, securing an agreement with the school district regarding compensation for additional school-aged children if the actual number exceeds the projected number, would further reduce impacts to community service providers. Therefore, while the Proposed Action would have a demand on community service providers, consistent with this finding, impacts would be inherently minimized to the extent practicable by the regulations of the MFM District.

Aesthetics and Visual Resources

1. The MFM District regulations require that all development proposal include, as part of the application for CMP approval, detailed plans for architectural, streetscape and landscape design to ensure an efficient development of uses that is architecturally and visually appealing and visually and aesthetically compatible with existing neighborhoods and surrounding the proposed new district.

   Section 1.2 provides details on the architecture and landscape design for the proposed development which incorporates several design tactics, consistent with the goals of the MFM District: layering uses to create more diversity in less space and facilitate connections; activating the ground floor in the public realm (e.g., outdoor seating, restaurant terraces, transparent retail frontages); activating the first floor by extending the public realm vertically (use of landscaping); creating retail kiosks (human scale, promote active outdoor uses); and providing mixed-use buildings containing varied housing options, including multifamily rentals.

   Section 3.4.2 provides detailed plans for architecture, streetscape and landscape design for the anticipated development under the proposed CMP. As noted in Section 3.4.2, the proposed Nassau Hub Innovation District would incorporate architecture, landscape and streetscape elements to provide a connected destination with a pedestrian-friendly environment, diverse and flexible uses and substantial amenities in accordance with the MFM District regulations. The contemplated development would create a sense of place and identity, while also connecting with the surrounding community. As described in Section 1.3, the Nassau Hub Innovation District would enhance the status of the Nassau Coliseum as a regional destination, strengthen economic opportunities and create a wide range of jobs, realizing the goals and objectives set forth by the Town.

Based on the foregoing, the contemplated development is consistent with this finding.

2. Building design would be required to consider building facade elements and significant design features, such as color, exterior materials and treatments, roof structure, aesthetic treatment of exposed mechanical equipment, lighting, and service and storage areas. Artful treatment of building facades and exterior walls would be required to provide appropriate street level scale and architectural interest through the aesthetic use of setbacks, surface textures, fenestration, pedestrian entrances, lighting, and other building features such as porticos, balconies, bay windows, canopies, dormers, and columns. Facades would be articulated to reduce the scale and uniform appearances of exterior building walls and provide visual interest that is consistent with surrounding community character and scale. Facade and exterior wall building materials would be required to be high-quality materials such as brick, wood siding, glass, natural or synthetic stone, tinted, textured, decorative concrete masonry, or other materials that are complementary or sympathetic to the community aesthetic. Facade colors would be varied as well as being complementary to the community aesthetic. Blank building facades or exterior building walls would not exceed 50 feet in length and building facades and treatments would be varied throughout the district to provide an eclectic neighborhood aesthetic. Buildings facades of non-residential or mixed-use residential uses would be composed of transparent windows and/or entrances.

   As the proposed development is in the preliminary approval phase, it is not possible to determine specific project designs, however, the Applicant has prepared Design Standards and Guidelines and has provided illustrative examples of the types of design and materials contemplated for the Nassau Hub Innovation District (see Section 3.9.2). As discussed in Section 3.9.2, building facades throughout the Subject Property would complement each other, yet be designed specific for the character of the individual district. Specifically, the Sports and Entertainment District, building façades are contemplated to create a unique experience for the pedestrian by introducing large scale elements and incorporating wayfinding with innovative, interactive façades and outdoor screens. Building facades within the Town Center District are contemplated to include building facades that would vary in design to give a residential look while using structural or cladding systems, an array of window sizes and opaque façade panes when needed. Lastly, building facades within the Innovation District are contemplated to be functional and innovative while creating a connection between indoor and outdoor spaces through the use of transparent and permeable frontages. Illustrative examples of contemplated building facades can be found in Section 3.9.2 of this document. Based on the forgoing, the Proposed Action is consistent with this finding.

3. Planting plans would be required to define outdoor spaces and activity areas, highlight the changing seasons, provide color and interest throughout the

year, provide shade, shelter and a street level buffer between large buildings and pedestrians, and contribute to the spatial and visual unity of individual premises and the district. Other guidelines for planting plans would include that they provide interesting, supportive environments for passive and active recreational activities, trees and other plantings to shade and screen views of surface parking areas, that they respond to the unique characteristics of a location, regarding sun and shade, soil, climate, wind, slope, water availability, views, and user activities, utilize high-quality, well-grown, deciduous and evergreen trees shrubs, vines and ground covers that are complementary or sympathetic to the aesthetic of buildings and uses, the district and the surrounding communities, and specify, locate and install plants to facilitate the establishment, growth, health and continued maintenance of all newly installed and existing vegetation.

The Design Standards and Guidelines for the proposed CMP address various aspects of landscape design. As the project is in the preliminary approval phase, site specific design plans are not available, however Section 3.9.2 of this Expanded EA includes photographic examples, illustrating the types of design and materials contemplate for the Nassau Hub Innovation District. Furthermore Section 3.9.2 provides details about the contemplated outdoor space and activity areas envisioned through the Subject Property. These spaces would be designed to weave the districts together, through an open space strategy organized as a system designed to connect with activated streetscapes. Varying green features would be introduced across the district such as pocket parks, street trees, extended planters, and green rooftops. Green features would support water management, provide shade and shelter, create more comfortable environment and screen any unpleasant visual features such as mechanical equipment.

As site specific planting plans would be submitted as part of the site plan approval process, the Proposed Action is consistent with this finding.

4. Landscape and site building materials and colors would be required to compliment the styles of the buildings and be aesthetically pleasing and compatible with those of surrounding communities. Building materials would be high-quality materials such as brick, wood, glass, metal, natural or synthetic stone, tinted, textured, decorative concrete masonry, or other materials that are complementary or sympathetic to the community aesthetic and colors would be varied as well as complementary to the community aesthetic.

   As the proposed development is in the preliminary approval phase, it is not possible to determine specific project designs, however, the Applicant has prepared Design Standards and Guidelines and has provided illustrative examples of the types of design and materials contemplated for the Nassau Hub Innovation District (see Section 3.9.2). Generally, it is contemplated that building materials would be of high-quality to align with the development theme of "Innovation Everywhere" and intent of the MFM District. Furthermore,

building materials would be unique to each of the three districts. Sustainability considerations discussed in Section 3.10, such as durability, recyclability, energy and emissions in their production process, and use of locally manufactured materials to reduce transportation carbon footprint and energy consumption would also be considered in the selection of building materials. Accordingly, the Proposed Action is consistent with this finding.

5. The design of free-standing parking structures, and the first floor and above portions of buildings used for other purposes that are devoted to parking would include the building design standards applicable to all buildings and additional basic standards to ensure they are high quality structures that enhance the public realm and the community. Parking structures would be located where visibility of the structure from first floor and street level areas of activity is reduced. They would include retail or service uses on the first floor along street and open space frontages. Pedestrian and vehicular access points to these structures would be articulated to add visual interest to the buildings that would also include architectural elements that enhance the structure, break up its mass and complement the building or buildings the structure serves. Parking structures would be designed to screen the visibility of vehicle headlights from outside the structure and to provide bicycle parking facilities commensurate with anticipated demand near entrances.

   As discussed in Sections 3.4.2, and 3.9.2, surface parking would be minimized or avoided and replaced with structured parking, where applicable. Structured parking garages are expected to be wrapped with other land uses (such as retail), art installations or vegetation to reduce the presence of inactive frontages and enhance the public realm and community. Parking that serves the Sports and Entertainment District would have explicit entry points that are easy to find and clearly indicated for the specific uses. Additionally, parking that serves private uses as in the Town Center District would be integrated within the architectural context, without standing out or drawing attention from the public. Pedestrian access to all parking uses would be given special attention, through architectural and landscape solutions with a focus on safety, convenience and seamless connections. When feasible, active uses on top of parking structures would be introduced (e.g., apiary, greenhouse). Thus, the Proposed Action is consistent with this finding.

<u>Cultural Resources</u>

1. The MFM District regulations limit density and building heights and introduce design guidelines for development so that new development in the MFM District would remain visually and aesthetically compatible with nearby cultural resources.

   The proposed CMP is generally consistent with the MFM District regulations thus it is expected that the anticipated development would be compatible with nearby cultural resources and consistent with this finding.

2. The heights, scale and mass of buildings in the proposed MFM District would be similar to existing development surrounding the site. Shadows from buildings developed under the MFM District regulations would be limited. Sunlight would be accessible and similar to sunlight in existing neighborhoods surrounding the site.

   As no tall towers, or buildings taller than the maximum height permitted in the MFM District (or taller than buildings currently situated in the surrounding area) are proposed, the anticipated development is consistent with the finding that shadows would be limited on and surrounding the site, and that sunlight would be accessible on site as in the surrounding community.

3. The MFM District regulations and design guidelines are designed to ensure that development within the district would remain visually and aesthetically compatible with nearby cultural resources.

   The FGEIS indicated that development in the MFM district would not have a significant adverse environmental impact on any historic or archaeological resources because the Subject Property does not contain, nor is it located contiguous to, a building, archaeological site, or district listed on, or nominated to the State or National Register of Historic Places. There has been no change to the status that the Subject Property does not contain, nor is it located contiguous to, a building, archaeological site, or district listed on, or nominated to the State or National Register of Historic Places. Therefore, the finding remains valid.

Construction Impacts

1. Any CMP submitted with an application for development in the MFM District would be required to provide a draft construction management plan that addresses potential temporary impacts related to construction, including the construction schedule and phasing, grading and erosion and sediment control, excavation and fill materials and quantities, hazardous materials handling, construction traffic, traffic access and parking, noise, impacts to air quality and construction operations and safety.

   A Construction Phasing Sequence and Logistics Plan has been prepared for the anticipated development in a manner consistent with this finding (see Section 6.11). Potential impacts related to construction activities, including traffic and parking, air quality, and noise and vibration would be temporary. Although no significant adverse construction impacts were identified, certain measures related to security and site access, storage of construction materials and products, sampling of excavated materials, preparation of a CHASP, preparation of a SWPPP, etc. have been incorporated to minimize impacts during the construction period. If unanticipated environmental conditions not identified in the Expanded EA are encountered during site preparation activities, the identified condition would be properly investigated and handled in accordance with applicable local, state and/or federal regulations.

2. The FAR of 1.6 would limit overall potential development, excavation, and filling within the MFM District boundaries.

   The anticipated development does not exceed the FAR of 1.6. As noted in Section 3.11.8 Construction excavation would generally include excavation for foundations, installation of utilities and other surface improvements. Additional excavation will be undertaken to accommodate the proposed parking structures. Excavated material will be reused on site to the greatest extent feasible. Material will be utilized across the Subject Property, where appropriate, to grade, stabilize and landscape the site. Thus, the proposed action is consistent with this finding.

3. The MFM District's land area, and density would inherently minimize potential adverse impacts associated with construction, including those related to traffic and parking.

   The proposed CMP's smaller land area would result in less impacts associated with construction as compared to those anticipated from the MFM District build out analysis included in the FGEIS. Section 3.11.10 discusses the traffic and parking associated with anticipated development during the construction period. The number of construction workers would not approach the numbers of workers, visitors and residents that would result in peak period traffic levels that are projected to exist once the development is complete. Material deliveries, removal of debris and other trucking operations would take place over the course of an entire day, as necessary, thereby reducing any impact on adjacent roadways. With respect to parking, presently, 5,944 parking spaces are available on-site. Throughout the construction period, between the construction of the parking garages on the premises and off-site parking, that total parking yield would remain available to accommodate events at the Nassau Coliseum. Thus, the proposed action is consistent with this finding.

4. The construction and demolition activities will result in air pollutant emissions that will impact local air quality levels. These impacts primarily result from the operation of equipment and fugitive particulate emissions. Traffic associated with the labor force and supplies/materials can also affect local air quality. However, impacts to air quality from these activities are anticipated to be short-term and relatively minor. Considering the period of time, expected construction phasing and the distribution of these emissions over substantial areas with control measures typically applied during construction and demolition activities, air quality impacts are expected to be minimal and are not expected to exceed air quality nuisance guidelines.

   As demonstrated in Section 3.11.12, air quality impacts associated with construction of the project are expected to be minimal and are not expected to exceed air quality nuisance guidelines, in conformance with this finding.

5. Due to the project's size and construction schedule (based on the buildout scenario for the MFM District as analyzed in the FGEIS), air quality impacts from fugitive dust will amount to 32.4 tpy with 75% control, and 6.5 tpy with

95% control. Contractors will implement typical dust mitigation measures such as water trucks, covering of storage piles and will utilize "good housekeeping practices" which will limit dust emissions. Stormwater mitigation measures will also contribute to dust reduction.

Section 3.11.12 indicates that in compliance with the New York State laws regulating fugitive and visible emissions, contractors would be required to ensure that all trucks carrying loose material use water as a dust suppression measure, that wheel-washing stations be established for all trucks exiting the construction site, that trucks hauling loose material be equipped with tight-fitting tailgates and their loads securely covered prior to leaving the site, that streets adjacent to the site be cleaned as frequently as needed by the construction contractor, and that water sprays be used for all transfer of loose material to ensure that materials are dampened as necessary to avoid the suspension of dust into the air. Furthermore, other best management practices, such as covering or stabilizing storage piles, using spray-on adhesives, constructing gravel construction entrances and installing wind barriers will be employed to manage fugitive dust. As noted in Section 3.1.8, a SWPPP will be implemented, which would assist in reducing the generation of dust. Therefore, the anticipated development is consistent with this finding.

6. The construction and demolition activities associated with the MFM District will also likely cause temporary noise that will impact local noise levels during construction. This impacts primarily result from the operation of equipment and truck traffic associated with the labor force and delivery and removal of supplies/materials. Blasting is not anticipated.

   While local noise levels will be impacted during the construction period, as demonstrated in Section 3.11.11, since most construction activities throughout the project site would be relatively far from noise-sensitive receptors, there is relatively limited potential for significant construction noise impact. Typical construction activities would be 500 feet or farther from the closest receptors and below the threshold for noise impact. Therefore, best management practices are not required to mitigate potential impact. Nevertheless, a number of BMPs, such as may be implemented, as safe, feasible, and reasonable to minimize potential construction noise effects. Furthermore, blasting is not anticipated for this project. Based on the foregoing, the anticipated development complies with this Finding.

7. The primary source of vibration from potential development within the MFM District is expected to be short-term construction operations that include large construction vehicles and vibratory sheet pile driving.

   As indicated in Section 3.11.11, in conformance with this Findings, truck traffic associated with excavation operations would be limited to public access roads that currently experience bus and truck traffic and would generally avoid secondary roadways and residential areas. At this time, no timber piling or sheet piling is proposed as part of the construction within the Nassau Hub

Innovation District. It is anticipated that soil conditions will support the use of spread footings in the construction of all foundations.

Cumulative Impacts

1. The proposed district regulations of the MFM District would not include a minor league baseball stadium as a permitted use. If the MFM District is created, land that might be used by the County for a minor league stadium would be outside the district boundaries and would require a separate application and environmental review of review for zoning changes to allow such a stadium to be built.

   The MFM District, as adopted in 2011, does not explicitly permit a baseball stadium to be built, and the anticipated development does not include such use. Accordingly, the proposed CMP is consistent with this finding.

Unavoidable Adverse Impacts

1. The permitted size, scale and density of development under the MFM District regulations would limit the unavoidable short and long-term impacts.

   As the size, scale and density of the proposed CMP reflects the MFM District regulations and the amount of development permitted, the unavoidable adverse impacts would be similar to those evaluated in the MFM Findings Statement. Thus, the proposed CMP is consistent with this finding.

Irretrievable and Irreversible Commitment of Resources

1. Creation of the MFM District and development in the MFM District is expected to irretrievably and irreversibly commit natural and man-made resources, and time, but the overall size, scale and density of development permitted under the MFM District regulations would limit the magnitude and commitment of such resources.

   As the size, scale and density of the anticipated development reflects the MFM District regulations and the amount of development permitted, the magnitude of the irretrievable and irreversible commitment of manmade and natural resources would be similar to those evaluated in the MFM Findings Statement, consistent with this finding.

Growth-Inducing Aspects

1. Development under the MFM District regulations is expected to induce development and economic growth within the district boundaries and in areas surrounding the district. However, the permitted size, scale and density of development under the MFM District regulations would limit the magnitude of such induced growth.

   As the size, scale and density of the proposed CMP reflects the MFM District regulations and the amount of development permitted, the magnitude of the growth-inducing impacts would be similar to those evaluated in the MFM Findings Statement.

Use and Conservation of Energy

1. The permitted density of the MFM District will limit the energy needs of the site because of the overall scale. The FAR and size of the district will limit or eliminate the need for supplementary energy infrastructure.

   Consistent with this finding, as the size, scale and density of the proposed CMP has the same FAR (1.6) and consists of less land area than the MFM District as analyzed in the FGEIS, the anticipated energy consumption resulting from the Proposed Action would be under the threshold established by the Findings, eliminating the need for supplementary energy infrastructure.

   As described in Section 3.10, at this time, it is expected that the development contemplated under the CMP would receive electricity via connection to existing PSEG Long Island infrastructure and would receive natural gas via connection to existing National Grid infrastructure. Additionally, in concert with traditional energy providers, another energy source that may be used is the Engie Nassau County co-generation plant, which currently provides hot and chilled water to the Coliseum for cooling and heating purposes. Furthermore, renewable energy sources, such as solar photovoltaic panels are also contemplated for use on one or more of the parking garages to minimize overall energy use on the Subject Property.

   The anticipated development would also comply fully with the relevant energy conservation requirements specified in the New York State Building Code, the State Energy Conservation Construction Code, as well as the MFM District green site and building requirements.

2. The zoning for the MFM District contains sustainable design guidelines which require quantifiable decreases in energy demand, water use, solid and liquid waste, and automobile use which will reduce the consumption of energy. The MFM District regulations would require development proposals to include sustainable site and building practices regarding design, construction methods, and post-construction operations and maintenance.

   As described throughout the Expanded EA, the anticipated development incorporates sustainable infrastructure design which would reduce water use, enable digital/smart communities and minimize site-wide building energy use as required by the MFM District. As indicated in the analysis in Sections 3.9 and 3.10, the design guidelines indicate that sustainable site and building strategies would be incorporated into the design of the anticipated development. Incorporation of these sustainable measures in the project design and operation would assist in lowering the carbon footprint and anticipated energy demand on the Subject property.

Sustainability

1. The legislative purpose of the MFM District includes promoting, encouraging and achieving high quality sustainable development that preserves, protects

and enhances the environmental economic and human resources of the Town of Hempstead.

Sustainable site and building strategies (see Section 3.10) will be incorporated into the design of the anticipated development to lower the carbon footprint on the Subject Property, including use of sustainable construction materials, energy efficient systems, and the incorporation of natural passive elements that aim to reduce energy consumption and carbon emissions into the architectural design in a manner that is consistent with the intent of the MFM District and this finding.

2. The limited density and size of the MFM District minimizes the potential for adverse impacts to energy, water resources, natural areas, and generated waste.

   As the size, scale and density of the anticipated development is consistent the MFM District regulations, the anticipated development would limit potential impacts to energy (Section 3.10), water resources (Section 3.1), natural resources (Section 3.3) and waste (Sections 3.1 and 3.8) as imagined in the FGEIS. Therefore, the proposed action is consistent with this finding.

3. The MFM District includes green site and building requirements which are intended to preserve and protect the natural resources (habitats and wetlands), air quality and water supply of the Town of Hempstead and to quantifiably decrease energy demand, water use generation of solid and liquid waste, stormwater run-off and the use of private cars.

   The proposed CMP will incorporate a combination of sustainability measures and practices throughout the design to leverage innovative green technology, minimize energy usage, and limit carbon emissions (see Section 3.10). For example, as described in Section 3.4, the parking garage located in the Innovative District, (P1) is expected to include solar panels, a rooftop farm, apiary and green house along with a living wall system, bike storage and ride-share pickup/drop-off. As specified in the site design guidelines, all buildings would implement energy efficient lighting systems and control systems, include alternative power and fuel systems and incorporate water conservation measures among other best use practices, and architectural design would seek to incorporate natural passive elements that aim to reduce energy consumption and carbon emissions. Furthermore, as discussed in Section 3.10, construction materials to be used in the Nassau Hub Innovation District include those of high durability, good recyclability, low energy and emissions in their production process and during construction, high efficiency thermal insulation, performance and insulated glazing, reflective (high-albedo) roof materials, locally manufactured materials to reduce transportation carbon footprint and energy consumption and zero toxicity, including during production and construction.

   In addition, other direct and indirect measures would be employed to conserve energy such as the incorporation of Complete Streets into the project design, as

specified in the MFM District regulations. This includes the provision of connected sidewalks to facilitate walking, and the provision of bicycle lanes and storage facilities to encourage biking and other alternative modes of transportation.

Conclusion

Based on the foregoing and the additional analyses included in this Expanded EA (see Section 3) for those areas of environmental impact that remain relevant, as well as on current site and surrounding area conditions, this Consistency Analysis demonstrates that the anticipated development under the proposed CMP would not exceed the criteria, thresholds and conditions set forth in the MFM Findings Statement and the overall impacts of the currently-proposed project are less than those previously evaluated in the FGEIS.

3

Existing Conditions and Potential Impacts

3.1 Water Resources

3.1.1 Existing Conditions

Water Use

The Subject Property is located within the Town of Hempstead Water Department Uniondale Water District (UWD) and the Nassau County Mitchel Field Water Supply Area (MFWSA). The area located to the south of the Coliseum plaza is located in the UWD and the area north of that is in the MFWSA. The UWD is operated and maintained by the Town of Hempstead Water Department; the MFWSA is operated and maintained by Nassau County Department of Public Works (NCDPW). Therefore, the water infrastructure within the project site as well as the mains to the north and west of the project site are currently owned by Nassau County.

The UWD draws its potable water from public supply wells tapping the Magothy aquifer. The UWD operates six public water supply wells; the portion of the MFWSA serving the Subject Property also draws water from these UWD supply wells. Thus, all potable water serving the Subject Property is drawn from the UWD supply wells. Water is directed from the UWD supply wells to the MFWSA through a series of interconnections north of Hempstead Turnpike, which are located in the general vicinity of the Nassau Coliseum parking lot and Earle Ovington Boulevard. Water

serving the Coliseum comes from a 10-inch water main that loops the plaza that surrounds the Coliseum. The 10-inch water main loop is fed from a direct connection to the UWD 16-inch main on Hempstead Turnpike and the MFWSA 24-inch main on Charles Lindbergh Boulevard.

The MFM Findings Statement indicated that the total supply well capacity of the UWD is 11.13 million gallons per day (mgd) and stated that, at the time, the UWD was "operating under a theoretical deficit for meeting 'maximum-day plus fire-flow' demand." The MFM Findings Statement also indicated that a new well was needed for water supply to the site.

Based on consultation with the Town of Hempstead Water Department all new water connections required to service the proposed buildings within the Subject Property would be metered directly to the UWD.

The Town of Hempstead Water Department does not provide water quality data for individual water districts, but instead groups the Uniondale, Bowling Green Estates, East Meadow, Levittown, and Roosevelt Field water districts into a single Drinking Water Quality Report. Based upon the overall water quality report for the above-mentioned districts, UWD water remains within permissible drinking water standards. The 2017 and 2018 Drinking Water Quality Reports[13] indicate that the quality of water is in compliance with all standards tested. Accordingly, iron levels, chlorides, and nitrates were all reported to be within range. The reports did not report the presence of any volatile organic compounds (VOCs) in the water.

The Drinking Water Quality Reports also indicated that the Town of Hempstead Water Department pumped 6,209,387,000 and 6,299,749,000 gallons of water in 2017 and 2018, respectively. Average daily pumpage for the Water Department was 17,012,019 gallons in 2017 and 17,259,586 gallons in 2018.

The Nassau Coliseum, which is currently the only use on the Subject Property has two water service accounts -- one for domestic water and the other for fire service. Both accounts are directly with the Town of Hempstead Water Department, UWD.

Additionally, Nassau Coliseum's thermal needs are met with a supply and return of hot water and chilled water from Engie (Nassau Energy, LLC), a co-generation facility, located on Charles Lindbergh Boulevard, just north of the Subject Property. Engie supplies hot water and chilled water for the Nassau Coliseum, NCC, Cradle of Aviation Museum, Long Island Children's Museum, Long Island Firefighters Museum and the Marriott Hotel.

Sewage Disposal

The Subject Property is situated within the Roosevelt Industrial Area Sewer District. Sanitary waste generated at the Subject Property is accommodated via existing

[13] The Town of Hempstead Water Department. *Drinking Water Quality Reports.* Available at: https://hempsteadny.gov/water-department/drinking-water-quality-reports. Accessed November 2019.

NCDPW sewer infrastructure and treated at the Cedar Creek Water Pollution Control Plant (WPCP).

The Nassau Coliseum currently connects to a 36-inch diameter sewer line that runs through the Subject Property. The sewer line runs from Charles Lindbergh Boulevard south to Hempstead Turnpike, where it joins a 48-inch diameter sewer line that runs east towards Meadowbrook Parkway. On the eastern side of the Meadowbrook

Parkway, the 48-inch line joins a 60-inch line, continuing south to the Cedar Creek WPCP. The Cedar Creek WPCP, under its current State Pollutant Discharge Elimination System (SPDES) permit, is permitted to accommodate a daily flow of 72 mgd. Average daily flows from 2015 to 2018 (latest available) have been 56.4± mgd with the approximate daily flow in 2018 reaching 63.1± mgd.

3.1.2 Probable Impacts

Water Use

Using the water consumption rates established in the MFM Findings Statement, the projected potable water demand of Phase I improvements is approximately 346,380 gpd, totaling 126.4 mgy. The breakdown in water demand of the anticipated[14] uses of Phase I is detailed in the table below.

[14] As the proposed development is in the preliminary approval phase, it is not possible to determine specific tenancies. However, for the purposes of comprehensive environmental review in accordance with SEQRA and its implementing regulations at 6 NYCRR Part 617, an analysis program has been assumed for evaluation in this Expanded EA, consisting of the uses described in Table 3 of this Expanded EA.

Table 13 – Projected Water Demand at Completion of Phase I

Land Use	Area (sf)	Units	Consumption Rate[1]	gpd	mgd	mgy
General Office	148,000		0.06 gpd/sf	8,800	0.009	3.2
Research and Development	188,000		0.06 gpd/sf	11,280	0.011	4.1
Hotel	186,121	260 keys	272 gpd/key	70,720	0.071	25.8
Conference/Meeting Space	75,000	3,000 occ.	7.5 gpd/occ	22,500	0.023	8.2
Restaurant	60,000	2,000 seats	38 gpd/seat	76,000	0.076	27.7
Entertainment Retail	110,000		0.02 gpd/sf	2,200	0.002	0.8
Multiplex Cinema	46,000	600 seats	3 gpd/seat	1,800	0.002	0.7
Theater/Performing Arts Venue	57,000	1,000 seats	3 gpd/seat	3,000	0.003	1.1
Residential	625,000	500 units	300 gpd/unit	150,000	0.150	54.8
Totals	**1,495,121**			**346,380**	**0.347**	**126.4**

Notes:

1. Water consumption rates as defined by the MFM Findings Statement, based upon the NCDPW Minimum Design Sewage Flow Rates, the Town of Hempstead Water Department consumption rates, and the Suffolk County Department of Health Services standards.

The water demand from the Coliseum would not change as part of the proposed action. The Coliseum would still continue to be supplied by the Town Department of Water. Therefore, water demand for Phase I would be approximately 346,380 gpd, excluding the Coliseum. Subsequently, Phase II anticipates adding approximately 614,000 SF of office space (including 252,000 SF of general office and 362,000 SF of research and development), 515,879 SF of hotel space (equating to 590 keys), 100,000 SF of conference/meeting space, and 40,000 SF of entertainment retail space. Based on the same consumption rates as indicated in Table 13, the Phase II uses would generate an additional water demand of 228,120 gpd, totaling 83.3 mgy. The additional water demand generated by the Phase II improvements, by use, is detailed in Table 14.

Table 14 – Additional Water Demand of Phase II Improvements

Land Use	Area (sf)	Units	Consumption Rate[1]	gpd	mgd	mgy
General Office	252,000		0.06 gpd/sf	15,120	0.015	5.5
Research and Development	362,000		0.06 gpd/sf	21,720	0.022	7.9
Hotel	515,879	590 keys	272 gpd/key	160,480	0.160	58.6
Conference/Meeting Space	100,000	4,000 occ	7.5 gpd/occ	30,000	0.030	11.0
Entertainment Retail	40,000	40,000 sf	0.02 gpd/sf	800	0.001	0.3
Totals	**1,269,879**			**228,120**	**0.228**	**83.3**

Upon completion of the Full Build-Out, the anticipated development (excluding the Nassau Coliseum) would generate a total water demand of 574,500 gpd (0.575 mgd), or 209.8 mgy. The breakdown in water demand of the respective uses of Full Build-Out is detailed in Table 15.

Table 15 – Projected Water Demand at Full Build-Out

Land Use	Area (sf)	Units	Consumption Rate[1]	gpd	mgd	mgy
General Office	400,000		0.06 gpd/sf	24,000	0.024	8.8
Research and Development	550,000		0.06 gpd/sf	33,000	0.033	12.0
Hotel	702,000	850 keys	272 gpd/key	231,200	0.231	84.4
Conference/Meeting Space	175,000	7,000 occ	7.5 gpd/occ	52,500	0.053	19.2
Restaurant	60,000	2,000 seats	38 gpd/seat	76,000	0.076	27.7
Entertainment Retail	150,000		0.02 gpd/sf	3,000	0.003	1.1
Multiplex Cinema	46,000	600 seats	3 gpd/seat	1,800	0.002	0.7
Theater/Performing Arts Venue	57,000	1,000 seats	3 gpd/seat	3,000	0.003	1.1
Residential	625,000	500 units	300 gpd/unit	150,000	0.150	54.8
Totals	**2,765,000**			**574,500**	**0.575**	**209.8**

Notes:

1. Water consumption rates as defined by the MFM Findings Statement, based upon the NCDPW Minimum Design Sewage Flow Rates, the Town of Hempstead Water Department consumption rates, and the Suffolk County Department of Health Services Standards.

It is estimated that an additional 21,000± to 31,000± gpd will be necessary for irrigation purposes during the growing season. Thus, the daily water demand, including the projected water demand at Full Build-Out, excluding the Coliseum

(which water demand would not change), is expected to be a maximum of approximately 605,500 gpd during the growing season.

The MFM Findings Statement contemplated that sustainable design guidelines and green site and building practices would be incorporated into the future CMP. The anticipated development contemplates the incorporation of water reduction measures, including: rainwater collection systems to reduce the use of potable water, where applicable; installation of efficient plumbing as part of the overall mechanical, electrical and plumbing systems within the buildings.

It is anticipated that as part of the Phase I water infrastructure improvements, the existing 10-inch feed from Hempstead Turnpike would be replaced and relocated into the easterly north-south roadway and will connect with the existing 10-inch loop at the southeast corner of the Coliseum Plaza. A new water main would be installed in the east-west road south of the residential buildings and tie into the main installed by MSKCC. Additionally, a new main would extend north from the MSKCC main and tie into the existing 10-inch loop at the northwest corner of the Coliseum Plaza near the loading dock entrance with a connection to Earle Ovington Boulevard. An easement would be provided for the existing and new water mains. The potential need for additional water supply infrastructure will continue to be discussed with the Town of Hempstead Water Department.

Consistency with the permitted density in the MFM District and incorporation of sustainable measures, including water conservation measures, would reduce water consumption and minimize potential impacts to the Town water supply, consistent with the MFM Findings Statement. To be conservative, however, the water use calculations presented do not take any credit for reductions associated with these measures.

According to the MFM Findings Statement, the water demand for new development as analyzed under the MFM Low Density Alternative was estimated at 0.720± mgd**,** or 720,000± gpd. For purposes of comparison, this total excludes the Nassau Coliseum (which will remain) as well as the Marriott Hotel, the Omni Office Building and RXR Plaza, as these uses are no longer part of the Subject Property. In addition, the square footage of anticipated office space under the MFM Low Density Alternative was reduced from 150,000 SF to 10,000 SF, due to the removal of the MSKCC parcel from the Subject Property. Under the Full Build-Out, potable water demand is expected to be approximately 0.575, mgd, or 574,500 gpd. Even including irrigation, which results in a maximum of approximately 0.606 mgd, or 605,500 gpd during the growing season, the projected water demand associated with the anticipated new development on the Subject Property would be less than the water demand of the MFM Low Density Alternative, examined in the MFM Findings Statement. Accordingly, with respect to water consumption, the proposed development falls within the threshold established in the prior GEIS and its Findings Statement. Requests for letters of water availability for the overall Nassau Hub Innovation District and Phase I were transmitted to the Town of Hempstead Water Department on February 20, 2020 and March 10, respectively (see Appendix D).

Sewage Disposal

Based on the potable water consumption rates provided in the MFM Findings Statement, the proposed Phase I improvements would generate approximately 346,380 gpd, 126.4 mgy, of sanitary waste. The projected sanitary waste to be generated by each anticipated use included in the Phase I program is detailed in Table 13. This total does not consider the Nassau Coliseum, as it would be the same under the existing condition and the anticipated development.

The proposed Phase II improvements would generate an additional 228,120± gpd, 83.3 mgy, of sanitary waste, as detailed in Table 14. Thus, implementation of the Proposed Action would generate approximately 574,500 gpd, 209.8 mgy in sewage effluent, aside from the Coliseum. The anticipated sanitary waste to be generated by each use at Full Build-Out is detailed in Table 15.

As noted, the Subject Property is within the Roosevelt Industrial Area Sewer District; existing infrastructure in and around the area of the Subject Property directs sanitary waste to the Cedar Creek WPCP. Under the Proposed Action, on-site sanitary connections would be made to the existing NCDPW infrastructure, and sanitary waste would continue to be directed to and treated by the Cedar Creek WPCP.

While the MFM Findings Statement does not discuss sewage disposal, it is typical that the rate of sewage disposal equals potable water demand. Therefore, sanitary flow from the new uses would be 0.720± mgy, or 720,000± gpd, excluding the uses described above. As the Proposed Action is expected to generate a total of 574,500 gpd of sanitary waste after Full Build-Out (excluding the Coliseum, which would remain in its current condition), anticipated development of the Subject Property would result in less sewage discharge than indicated in the MFM Findings Statement with respect to its discussion of potable water. Sewage disposal was not addressed in the MFM Findings Statement as none of the scenarios analyzed were expected to have a significant adverse impact on sewage disposal. Therefore, since the amount of sewage disposal is even less than previously analyzed, no significant adverse impacts are anticipated. Requests for letters of sewer availability for the overall Nassau Hub Innovation District and Phase I were transmitted to the NCDPW on February 20, 2020 and April 3, 2020, respectively (see Appendix D).

3.1.3 Proposed Mitigation

The Proposed Action would be consistent with the MFM Findings Statement with respect to water resources. However, in order to further minimize water demand, the following measures are proposed to be incorporated into the project design:

- Water conservation measures, such as low-flow and/or automatic fixtures, will be used to minimize water demand.
- Native/adaptive planting species will be used to minimize the need for irrigation of landscaped areas.

- Green infrastructure (e.g., rainwater collection tanks) will be used, as feasible, to offset the water demand associated with irrigation.
- Green rooftops will be designed to retain precipitation and reduce the need for irrigation of the same.

3.2 Stormwater Management

3.2.1 Existing Conditions

Stormwater generated at the Subject Property is accommodated by the Nassau County drainage system and on-site infiltration. Stormwater generated on site is directed to a network of storm drains located throughout the Nassau Coliseum parking lot. Stormwater is then routed southward to twin 72-inch pipe culverts and is eventually discharged to a Nassau County recharge basin located along Glenn Curtiss Boulevard (Nassau County recharge basin #537), south of the Subject Property. Information obtained from NCDPW indicates the storage capacity of recharge basin #537 is approximately 2,085,000 cubic feet (cf), with additional overflow to the East Meadow Brook drainage area.

Based on runoff coefficients of 1.0 for impervious surfaces (i.e., buildings, roads, pavement), 0.5 for semi-pervious surfaces (i.e., rooftop open space, green roofs) and 0.3 for pervious surfaces (i.e., landscaped features), the existing stormwater generation associated with a 5-inch rainfall event is estimated to be approximately 1,945,000 cf. Greater detail is provided in Table 16, below.

Table 16 – Stormwater Generation Under Existing Conditions

Land Use	Area (sf)	Runoff Coefficient	5-Inch Runoff Volume (cf)
Building Coverage	135,851	1.0	56,605
Parking Structures	0	1.0	0.0
Rooftop Open Space	0	0.5	0.0
Impervious Area	2,694,327	1.0	1,122,634
Landscaped Area	288,816	0.3	36,102
Totals	**3,118,994**		**1,215,341**

With a storage capacity of approximately 2.1 million cf, Nassau County recharge basin #537 has sufficient capacity to accommodate existing stormwater generated on site by a 5-inch rainfall event.

With regard to stormwater management under the future development of the MFM District, the MFM Findings Statement identified various stormwater management measures that, if applied, would sufficiently mitigate stormwater impacts. Such measures included, among others:

- A reduction in impervious surfaces;
- Continued connection to, and use of, Nassau County recharge basin #537;
- Exclusion of direct discharges to surface waters; and,

› Preparation of a stormwater pollution prevention plan (SWPPP), in accordance with the presiding regulations of the NYSDEC and the Town of Hempstead (Section 3.11).

To further reduce stormwater runoff generation, the MFM Findings Statement also noted the MFM District's requirement of "measures and practices to quantifiably decrease water use, liquid waste production, and stormwater runoff."

3.2.2 Probable Impacts

Implementation of the Proposed Action would result in a decrease of impervious surface on the Subject Property from 65.0± acres to 61.1± acres; as such, the amount of stormwater generated on-site would decrease accordingly. Additionally, the inclusion of green infrastructure, as described below, would further reduce the amount of stormwater generated onsite by collecting, and utilizing, rainwater on-site. Thus, following implementation of the Proposed Action, stormwater generated on-site by a 5-inch rainfall event is estimated to be approximately 1,803,000 cf, as detailed in Table 17. The Proposed Action would therefore result in an approximate 142,000 cf decrease in stormwater generated on-site by a 5-inch rainfall event.

Table 17 – Stormwater Generation Under the Proposed Action

Land Use	Area (sf)	Runoff Coefficient	5-Inch Runoff Volume (cf)
Building Coverage	752,448	1.0	313,520
Parking Structures	192,586	1.0	80,244
Rooftop Open Space	187,832	0.5	39,132
Impervious Area	1,527,148	1.0	636,312
Landscaped Area	458,980	0.3	57,373
Totals	**3,118,994**		**1,126,581**

Stormwater would continue to be accommodated by the existing positive drainage network on the Subject Property. Additional on-site drainage pipe and structures (i.e., catch basins and storm drains) would be installed through the development within the proposed roadways in order to make room for the proposed buildings and parking structures Roof drains would be installed throughout the Subject Property, as necessary, to direct stormwater to the updated positive drainage system (noted above). Stormwater would continue to be discharged to Nassau County recharge basin #537. With a storage capacity of approximately 2.1 million cf, recharge basin #537 has sufficient capacity to accommodate stormwater generated by the Proposed Action under a 5-inch rainfall event.

The updated stormwater management system would ensure that stormwater runoff would be captured and conveyed off-site, precluding stormwater from running overland and potentially impacting adjacent properties or nearby surface waters. Further, proper maintenance of the stormwater structures would be employed to

ensure that the system operates correctly, and inappropriate discharges would be prevented.

Best Management Practices (BMPs) would be employed to minimize adverse impacts to the Nassau County drainage system, including:

- A reduction in impervious surfaces, reducing the amount of stormwater generated on-site and discharged to the Nassau County drainage system.
- The construction of rooftop open spaces consisting of green roofs and roof top gardens, again reducing the amount of stormwater generated on-site and discharged to the Nassau County drainage system.

As noted above, the MFM Findings Statement indicated that previously-identified stormwater management measures, if applied, would sufficiently mitigate stormwater impacts. Amongst the measures incorporated into the MFM District, §146.1.P(2)(e)[8] states that development should, "reduce stormwater runoff by increasing local infiltration." Furthermore, the MFM Findings Statement indicated that future MFM District regulations would include sustainable design guidelines that would further reduce stormwater runoff. Specifically, §146.1.O.(5) of the MFM District states:

> *Green site and building requirements. All development proposals shall include sustainable site and building practices regarding design, construction methods, and post-construction operation and maintenance of a proposed project to quantifiably decrease anticipated energy demand, water use, generation of solid and liquid waste, stormwater runoff, and the use of private cars, and to preserve and protect the natural resources, air quality and water supply of the Town of Hempstead. Such measures shall be part of the application for conceptual master plan approval and all proposed site and building plans.*

Additionally, the MFM Findings Statement indicates that upon approval of a CMP in the MFM District, a SWPPP must be completed, and all necessary approvals must be obtained from the appropriate agencies (e.g., NYSDOT, NYSDEC, NCDPW).

Consistent with the MFM Findings Statement, in accordance with latest NYSDEC general permit for stormwater management NYSDEC (currently GP-0-20-001), Article XXXVIII of the Town of Hempstead, *Stormwater Management and Erosion and Sediment Control,* and specifically the requirements of the MFM District, a SWPPP will be completed upon approval of the CMP. An overview of the proposed erosion and sediment control measures to be included in the SWPPP, and the prevailing regulations governing the same, are provided in Section 3.11 of this Expanded EA.

Also, as described above, consistent with the MFM Findings Statement and pursuant to both §146.1.P(e)[8] and §146.1.O(5) of the MFM District, the anticipated development would incorporate green infrastructure and sustainable design practices to reduce stormwater generation and impacts related to stormwater runoff. Such measures are expected to include the use of infiltration meadows, bioswales and rainwater collection systems, and the construction of green roofs and roof top gardens.

Based on the above, the anticipated development would be consistent with the MFM Findings Statement with respect to stormwater runoff. The anticipated development would result in a reduction in impervious surfaces and would incorporate sustainable design measures devised to decrease stormwater runoff, thereby reducing the amount of stormwater generated on site. Through the installation of new on-site infiltration structures, the proposed development would also enhance the existing drainage system. Further, a SWPPP would be prepared and implemented in accordance with prevailing regulations. Employing the type of measures identified in the prior GEIS and noted in the MFM Findings Statement, the anticipated development would reduce and handle stormwater runoff such that there would be no significant adverse impact.

3.2.3 Proposed Mitigation

As the anticipated development pursuant to the proposed CMP would decrease the amount of stormwater generated on-site and would adhere to the relevant MFM District regulations and other applicable Town/State requirements with respect to stormwater runoff (including preparation of a SWPPP), implementation of the Proposed Action would be consistent with the Findings Statement and would not result in significant adverse stormwater impacts. Rather, by reducing impervious surfaces and employing green infrastructure technologies, implementation of the Proposed Action is expected to have a positive impact with regard to stormwater runoff and overall stormwater management.

3.3 Ecology

3.3.1 Existing Conditions

The Subject Property is nearly entirely developed with the Nassau Coliseum and its associated parking lots. It contains approximately 65.0± acres (90.8%) of impervious surfaces and 6.6± acres (9.2%) of landscaped areas, located primarily along road frontages and fence lines, and within a series of islands situated in the pedestrian areas surrounding the Nassau Coliseum. These areas contain typical suburban vegetation, including various species of trees, shrubs, and maintained turf. There are no naturally-occurring vegetated areas on the Subject Property.

Given the high level of development on the Subject Property and the presence of large transportation corridors, few wildlife species exist on site. Only those species tolerant of human activity and common to urbanized habitats, including typical suburban species such as songbirds, squirrels, etc., are expected. Prior environmental documents have confirmed that there are no endangered or threatened plant or wildlife species found on the site.

The MFM Findings Statement indicates that the Subject Property is within the vicinity of the Hempstead Plains grassland community, a designated significant natural community which supports several threatened and endangered plant and animal species. The Hempstead Plains community is primarily found within the Francis T. Purcell Preserve, an approximate 67.7-acre property located east of the Subject Property, to the east of James Doolittle Boulevard/Hotel Drive and the Marriott Hotel. Two additional remnant areas of the Hempstead Plains community exist within the vicinity of the Subject Property but are not directly adjacent. The Francis T. Purcell Preserve is separated from the Subject Property by the Marriott Hotel, its associated parking lots, and James Doolittle Boulevard/Hotel Drive, as noted above. Similarly, the Hempstead Plains North is separated from the Subject Property by Perimeter Roadway and Charles Lindbergh Boulevard.

The Subject Property does not contain wetland areas, though regulated wetlands are found near the easternmost boundary of the Francis T. Purcell Preserve and to the east of the Hempstead Plains North. Again, these areas are separated from the Subject Property by paved roadways and large transportation corridors. Thus, the Subject Property neither contains nor directly adjoins any wetlands or wetland buffer areas. Overall, the Subject Property does not contain, nor does it directly adjoin any significant natural communities or habitats (including the Hempstead Plains grasslands), nor does the Subject Property support endangered or threated plant or animal species.

The MFM Findings Statement highlights various proposed (and now adopted) MFM District regulations aimed at reducing impacts to ecological resources, including those set forth under §146.1.O.(5):

Green site and building requirements. All development proposals shall include sustainable site and building practices regarding design, construction methods, and post-construction operation and maintenance of a proposed project to quantifiably decrease anticipated energy demand, water use, generation of solid and liquid waste, stormwater runoff, and the use of private cars, and to preserve and protect the natural resources, air quality and water supply of the Town of Hempstead. Such measures shall be part of the application for conceptual master plan approval and all proposed site and building plans.

The MFM Findings Statement also notes that, under the MFM District regulations, three percent of the developable land must be set aside as parkland, and such set-aside could potentially be restored as Hempstead Plains grassland.

3.3.2 Probable Impacts

As the Subject Property does not contain substantial ecological resources, nor is it directly adjacent to such resources (since it is separated from the Hempstead Plains by a roadway to the east), and as the configuration of the Subject Property has changed since the FGEIS was filed and the MFM Findings Statement was adopted, implementation of the Proposed Action would not have significant adverse impacts on the same. Moreover, neither the anticipated development in accordance with the proposed CMP, nor proposed off-site mitigation measures associated with the Proposed Action would affect the Hempstead Plains grasslands. Additionally, no portion of the anticipated development or associated proposed mitigation measures would impact wetlands or wetland buffers as these features are also absent from the Subject Property.

Conversely, the Proposed Action is expected to have a positive effect on ecological features by providing additional landscaping. Creation and development of the Nassau Hub Innovation District would result in an increase of pervious and landscaped areas from 6.6± to 10.5± acres, at a minimum, with a corresponding decrease in impervious surface coverage. Although not yet specifically designed, the additional landscaped areas are proposed to be improved with native plant species that would provide additional habitat for suburban wildlife species.

The increase in pervious area/landscaping is consistent with the requirements of the MFM District, which, pursuant to §146.1.O(2), requires at least three percent of the total land area be set aside as public parkland (exclusive of land set aside for public rights-of-way or other open space required under §146.1.N.(10), see below). Under these requirements, the Subject Property would require a minimum of 78,978 SF of public parkland. The anticipated development, as illustrated on the proposed CMP (see Figure 4 and Appendix B) provides 85,600± SF of public parkland, thus exceeding the required public parkland minimum by approximately 6,600 SF. Moreover, the Applicant intends to refine the landscape design. Therefore, once specific site plan designs have been prepared, the amount of public parkland would increase. The amount of such space would not fall below the 85,600 SF currently indicated. Additionally, pursuant to §146.1.N.(10), as residential open space must be provided at a rate of 500 SF/unit, the anticipated development requires a minimum

of 250,000 SF of residential open space. Providing approximately 265,000 SF of residential open space, the anticipated development exceeds the requirement by approximately 10,000 SF. As demonstrated above, and in accordance with the MFM District regulations, the anticipated development would dedicate more than three percent of the Subject Property's developable land as parkland. However, since the Subject Property no longer abuts Hempstead Plains grassland, nor would such habitat be disturbed, the parkland set-aside would not be used for the restoration of such resource.

Pursuant to MFM District requirements, as contemplated in the MFM Findings Statement, the Proposed Action also includes the use of green infrastructure (such as hydroponic gardens rain gardens and bioswales), as well as innovative building design elements (noted below) that will positively contribute to the ecological setting of the Subject Property. For example, with respect to green building design, some structures are proposed to be improved with green roofs and/or rooftop farms. These roofs, containing various plant species, would increase the diversity of local plant life and may also provide habitat for suburban species. Various other proposed elements, including living wall systems, apiaries, and innovative greenhouse technologies, would provide similar ecological/green benefits.

Overall, the Proposed Action is expected to have a positive impact on the Subject Property's ecological resources. The proposed development will substantially increase pervious land coverage and will create new habitats not currently found on the Subject Property. Further, consistent with the MFM Findings Statement, the proposed development will incorporate green site and building design elements and will dedicate more than three percent of its developable land to parkland. Therefore, as the anticipated development conforms with the MFM District, consistent with the MFM Findings, it will eliminate or reduce impacts to ecological resources since it would incorporate quantifiable decreases in standard practices regarding energy demand, water use, sewage generation, stormwater runoff, and the use of private vehicles, as compared to those analyzed in the prior GEIS, as described in various sections of this Expanded EA.

3.3.3 Proposed Mitigation

Since the Subject Property currently lacks substantial ecological resources, implementation of the Proposed Action would not have a significant adverse impact on same. Rather, in conforming to the MFM Findings Statement by incorporating green infrastructure, by not impacting the Hempstead Plains grasslands or wetland habitat, and by increasing the vegetation and wildlife habitat found on site, the Proposed Project would have a positive ecological impact. Therefore, no mitigation measures are proposed.

3.4 Zoning, Land Use and Community Character

3.4.1 Existing Conditions

Zoning and Land Use

Pursuant to the Hempstead Building Zone Ordinance (BZO) and Map, the Subject Property is situated within the Mitchel Field Mixed-Use District (MFM), which is part of the overall Planned Development Districts (PDD) at Mitchel Field (Article XIII of the Town of Hempstead BZO). The MFM District, which is limited in its geographical extent, includes the Subject Property, as well as the Long Island Marriott Hotel and the MSKCC facility. The MFM District permits arenas, hotels, offices, restaurants, research and development facilities and residential uses among other uses. The potential impacts of the creation of the MFM District were analyzed within the MFM FGEIS that formed the basis of the MFM Findings Statement. The MFM Findings Statement indicates that the creation of the MFM District would encourage redevelopment of the underdeveloped Coliseum site and allow for mixed-use development.

Subsequent to the Finding Statement, the MFM District was adopted by the Town of Hempstead Town Board by the resolution and became effective June 28, 2011.

The MFM Findings Statement sets forth, among other things the environmental findings and conclusions relative to land uses and densities that, if adhered to, would not result in significant adverse environmental impacts. While increasing the density of potential development on the site and allowing for a mix of uses, the proposed MFM District regulations seek to ensure that development density remains compatible with patterns in the surrounding neighborhoods and to limit significant traffic impacts. In order to achieve this, the MFM District limits (and the Findings Statement evaluated) a mixed-use development at a FAR of 1.6 (similar to that proposed by the Applicant). The mix of uses evaluated included those that are complementary to and supportive of the Nassau Coliseum and the surrounding uses, and that would result in a planned, walkable destination neighborhood. Such uses identified are those that are similar to what is proposed by the Applicant, including offices, hotels, convention/conference space, multifamily residences, retail, restaurants, and entertainment venues, such as cinemas. The maximum number of residential units would be 500, including 20 percent to be either affordable or next generation/ workforce units. Additionally, the building heights in the new district would be below to the heights of the existing buildings surrounding the property, as discussed in the MFM Findings Statement. As indicated in the MFM Findings, to minimize environmental impacts on such issues as energy demand, water use, sewage generation, stormwater runoff and the use of private cars, among others, sustainable design and building practices with respect to design, construction methods and materials, and post-construction operation and maintenance are to be incorporated into the project design. Also, the location, arrangement and design of the buildings, parking, open space and site amenities must promote quality site,

building and landscape design. Additionally, among the design objectives, the overarching goal is to ensure that the combined elements of architecture, streetscape and landscape are creative, seamlessly integrated, as well as visually appealing.

The MFM Findings note that the proposed density of a FAR of 1.6 would provide an increased population of potential riders for the existing public transportation systems and provide public rights-of-ways with sufficient widths to accommodate future expansion of the public transportation system.

Another goal set forth in the MFM Findings is to incorporate public rights-of-way and connect these to the surrounding road network. These connections would improve the traffic distribution and flow through and around the District. The rights-of-way would be "complete streets" incorporating safe access for all types of users, including motorists, public transit users, bicyclists and pedestrians. Furthermore, one of the goals of the streetscape and design guidelines is to facilitate walking and biking through pedestrian-oriented streets level uses, open space and amenities, which would encourage economic development in the new MFM District. Parking goals include providing sufficient parking on-site (surface or structured) or within 300 feet of the property, in order to park the site efficiently.

Along with the design, transportation and land use goals, the MFM Findings comprehensively reviewed the proposed MFM District requirements, including specific bulk and dimensional regulations. Subsequently, the Town codified the bulk and dimensional regulations contained in the Findings, which include a FAR of 1.6, a maximum building area of 35%, maximum heights for various uses, maximum number of residential units, etc. (Table 2 in Section 1.2).

As detailed in Section 1.2, about four years after the adoption of the MFM District, NEC prepared a CMP for the redevelopment of the Nassau Coliseum and the surrounding 77 acres,[15] owned by Nassau County and known as the Nassau Hub. As described in Section 1.2, the NEC CMP included renovations to the Nassau Coliseum along with the ultimate development of a 60,000 SF, 1,500-seat cinema, 200,000 SF of restaurant space, 385,000 SF of retail space, 675,000 SF of office and research and development space, 350,000 SF of convention/banquet/recreation spaces, 466,350 SF of additional hotel space (number of rooms was undefined) and structured parking. The Town conducted an environmental review of the NEC CMP, based on an Expanded EA that NEC prepared. Subsequently, the Town Board issued a negative declaration, which determined that the proposed project would not have a significant adverse effect on the environment.

Following the negative declaration, the Town approved the NEC CMP in April 2015. The approval stated that all development proposed in the future for site plan approval or otherwise must be consistent with the adopted NEC CMP, but if

[15] Subsequently Nassau County sold approximately five acres to MSK for construction of the MSKCC facility. The current size of the Subject Property is 71.6 acres.

inconsistent, it would be subject to the approval of an amended CMP by the Town Board, with additional SEQRA review, if deemed appropriate by the Town Board.

Through the approval of the NEC CMP, the Town Board approved several modifications of the MFM District resulting in changes to the width of public rights-of-way of the interior roadways (see below). The adjustments in road width for the Subject Property are applicable for future development on the site.

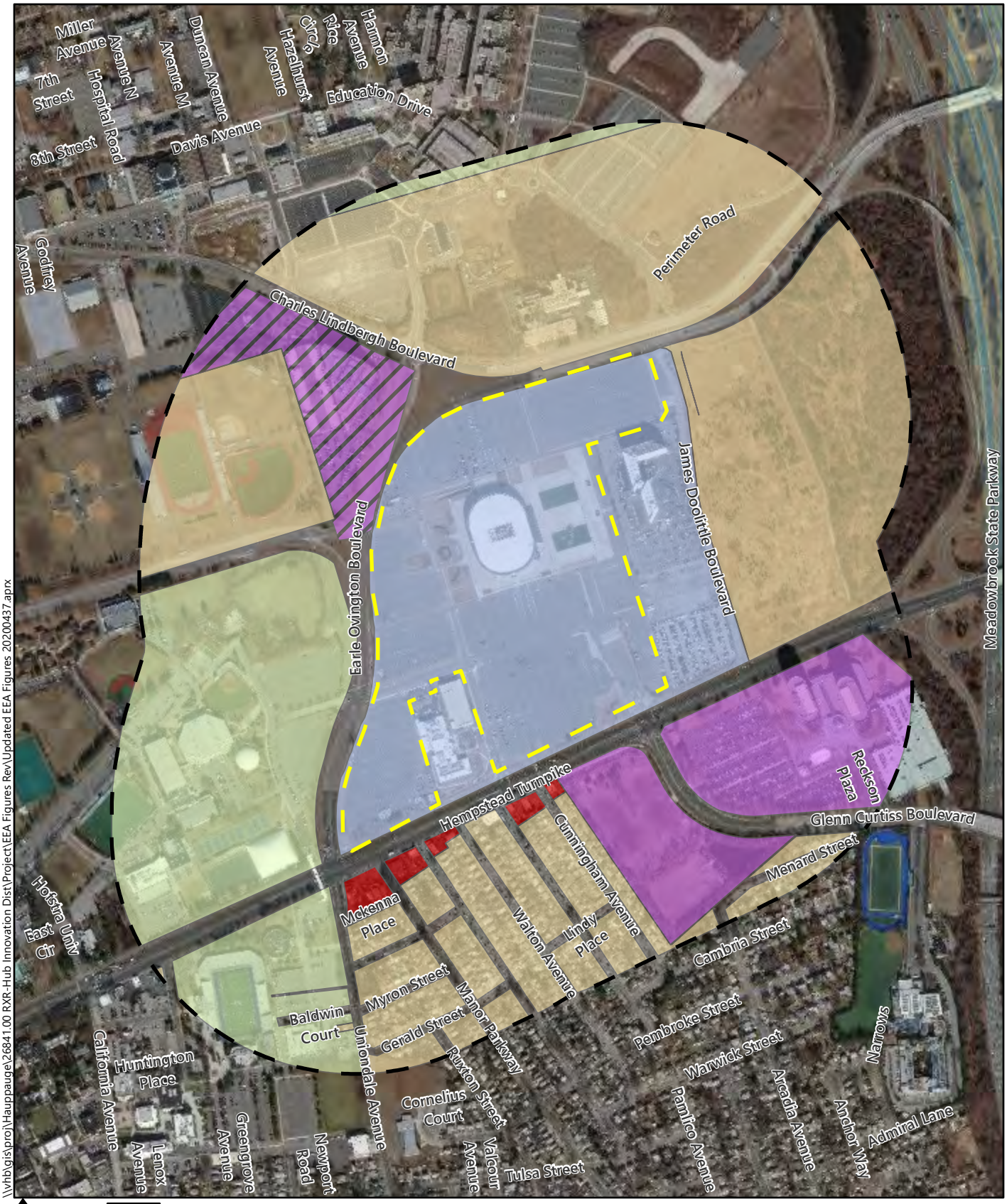
More specifically, as adopted by the approval resolution (see Appendix A), the widths of public right-of-way of the interior roadways were reduced for all interior roadways running north/south and east/west as follows:

- The north/south right-of-way connecting Glenn Curtiss Boulevard to Charles Lindbergh boulevard from 120 feet wide to 90 feet;
- The east/west right-of-way connecting Earl Ovington Boulevard to James Doolittle Boulevard from 120 feet wide to 60 feet;
- The easterly north/south right-of-way road to Earl Ovington Boulevard from 80 feet wide to 60 feet; and
- The north/south right-of-way connection Hempstead Turnpike to Northerly east/west road from 80 feet to 60 feet.

In addition, changes to certain elements of the "Complete Streets" requirements in conjunction with the modifications of the public rights-of-way of the interior roadways (e.g., the width and location of certain planted medians, the provision of on-street bicycle lanes, on-street parallel parking, pedestrian walkways on both sides of the interior roads) were also adopted.

Based on the foregoing, the MFM Findings Statement and the MFM District, as well as the 2015 approved NEC CMP (with the modifications cited above), serve as the basis for the redevelopment of the Subject Property.

The Town of Hempstead zoning maps were reviewed to understand the surrounding zoning. Since the time the NEC CMP was approved, the zoning surrounding the Subject Property has not changed. Figure 6 is an excerpt of the Town of Hempstead zoning maps, indicating the zoning in the surrounding area of the Subject Property. The zoning is reflective of the uses in the area including the colleges (Edu-Cultural), the offices (Mitchel Field Office [MFO] Districts), the commercial establishments (Business X District) and single-family homes (Residence B District). The use of the Subject Property and the surrounding area is discussed below.



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0 300 600 1200 Feet

Nassau Hub Innovation District | Town of Hempstead, Nassau County

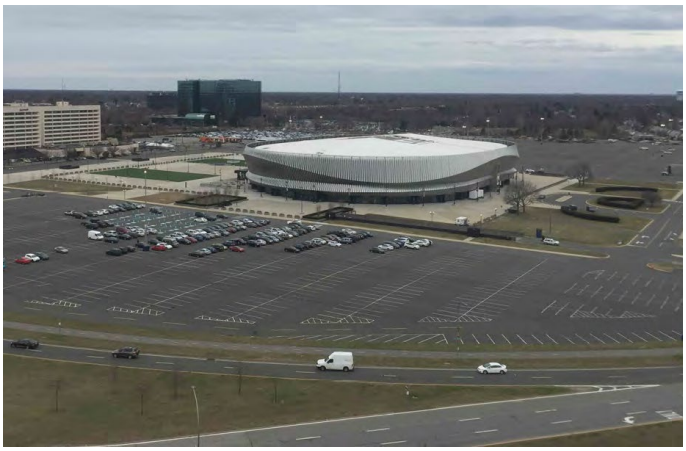
Quarter Mile Radius
Subject Property

Residence B
Business
Edu-Cultural

Mitchel Field Mixed-Use
Mitchel Field Office
Mitchel Field Office II

Existing Zoning
Hamlet of Uniondale

Source Info: Town of Hempstead Zoning Maps (2011).



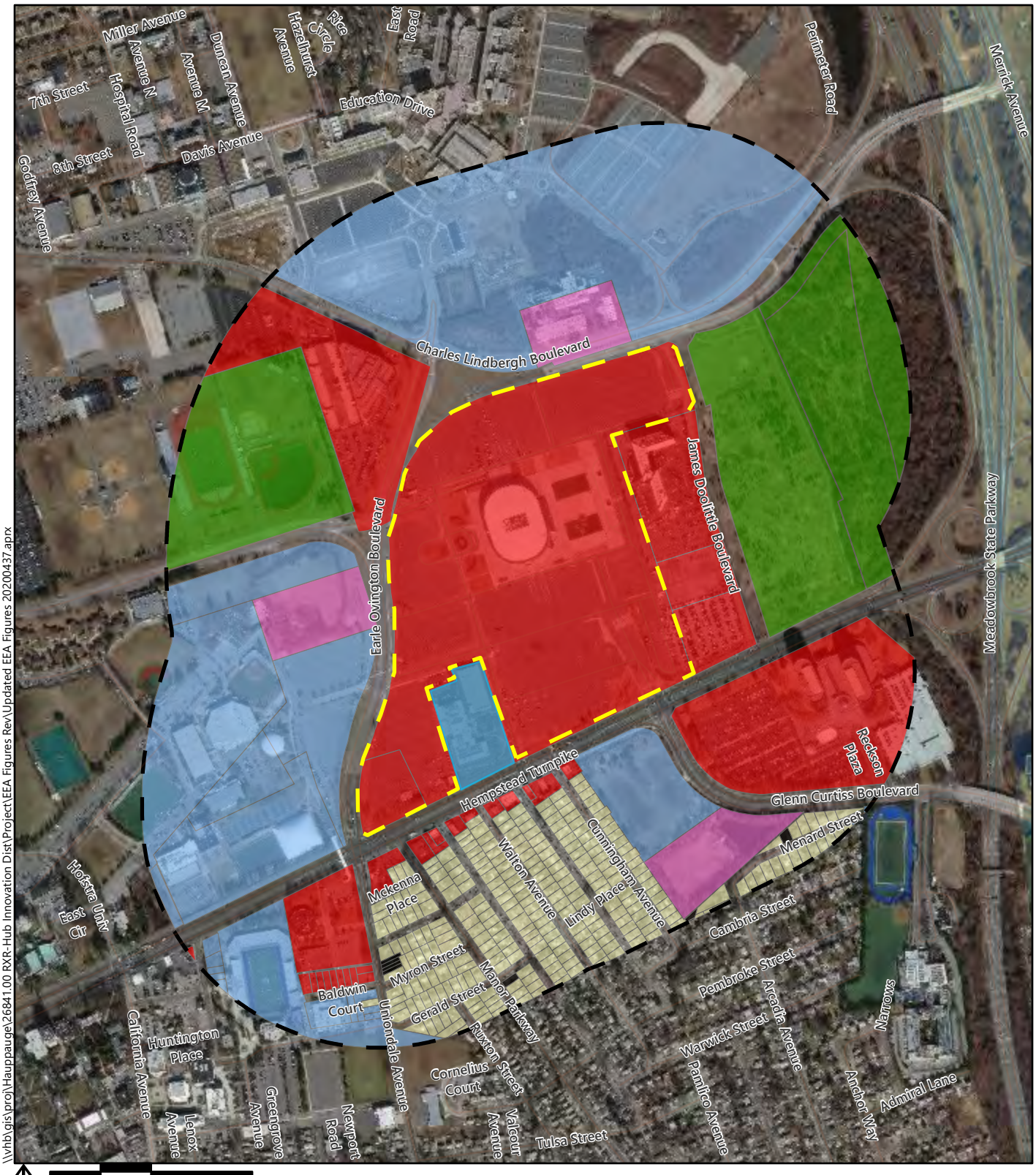
The 71.6±-acre Subject Property is bounded by Hempstead Turnpike to the south, Earle Ovington Boulevard to the west, Charles Lindbergh Boulevard to the north and the Long Island Marriott Hotel with James Doolittle Boulevard beyond to the east. The majority of the 71.6±-acre Subject Property (89%) is composed of impervious surfaces, with the remainder having scattered landscaping throughout the parking fields and the vegetated border and landscaped area along Hempstead Turnpike.

The only uses on the Subject Property are the 416,000-SF, 56-foot-11-inch tall Coliseum, the surrounding plaza and the associated parking fields with ticket booths (containing approximately 5,800 surface parking spaces). The Coliseum building contains an arena, concessions, a restaurant, exhibition space and rooms for private events. Land coverages of the site are shown in the table, below.

Table 18 – Existing Land Coverages

Type of Coverage	Existing Coverage in Acres (Percent)
Roads, buildings, and other paved or impervious surfaces	64.0±(89%)
Lawn, Landscaping and pervious surfaces	7.6± (11%)
Total:	71.6±

Land uses within ¼-mile of the Subject Property include commercial (including retail, office and hotel), educational, open space, recreational, residential and utility uses (Figure 7). VHB visited the Subject Property and surrounding land uses in September 2019 to verify the land uses and note any changes since 2015. Since the approval of the NEC CMP in 2015, there has been minimal change in the land uses surrounding the Subject Property. Figure 8 depicts the prominent land uses in the surrounding area. Photographs of the major land uses in the area are shown herein. Additional photographs of the Subject Property and surrounding land uses are contained within Section 3.9, *Aesthetic Resources*, of this Expanded EA.



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0 300 600 1200 Feet

Nassau Hub Innovation District | Town of Hempstead, Nassau County

Quarter Mile Radius

Subject Property

Land Use

- Commercial
- Community Services, Educational and Institutional
- Open Space and Recreation
- Residential
- Utilities (including stormwater facilities)
- Vacant

Existing Land Uses
Hamlet of Uniondale

Source Info: ESRI, VHB Site Visit September 11, 2019.

0 1250 2500 5000 Feet

Quarter Mile Radius

Subject Property

Nassau Hub Innovation District | Town of Hempstead, Nassau County

Surrounding Major Land Uses
Hamlet of Uniondale

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Community Character

"Community character" is a subjective term that reflects the interplay amongst a number of factors unique to a community that define its context and feeling and may include: types landforms present; presence and type of surface waters, if any; ecological resources present, if any; land use mix and pattern and density of development; volume of and mix of vehicular traffic; and sources and characteristics of noise, among others.

The diverse mix of commercial, industrial, community facility and residential uses within the surrounding community contributes to the area's character, as does the density and scale of development (i.e., dense, compact development generally ranging from one-to-two stories with much taller buildings interspersed throughout). A detailed discussion of visual characteristics of these uses, along with representative photographs area are presented in Section 3.9, *Aesthetic Resources*, of this Expanded EA.

The character of the Subject Property is defined by the newly-renovated, architecturally distinctive Coliseum building surrounded by a sea of parking. The parking lots are generally flat and barren with scattered landscaping and lighting fixtures throughout.

The existing character of the surrounding community is an established commercial and institutional area that is defined by a number of dominant land uses such as colleges, office buildings and commercial uses. The land is primarily flat due to prior land development activities associated with the existing buildings, parking areas and roadways, and views are expansive.

The large, multi-story office and hotel buildings along with the larger buildings associated with Nassau Community College and Hofstra University, surrounding the Subject Property, contribute to the visual character of the area. As mentioned above, the surrounding community is composed of predominately one-to-two story buildings punctuated by taller buildings of up to 15 stories and 175± feet. These taller buildings are dominant factors in the visual landscape of the community.

The character of the area surrounding the Subject Property is also influenced by its location along Hempstead Turnpike. Hempstead Turnpike at the Subject Property is generally characterized as highly developed with commercial uses on the south side fronting the roadway with residential uses beyond. There are a minimal number of street trees, which act as a thin buffer along the southern boundary of the property on the north side of Hempstead Turnpike. The main roadways surrounding the Subject Property -- Hempstead Turnpike, Charles Lindbergh Boulevard and Earl Ovington Boulevard, along with the smaller network of streets contribute to the overall character of community due the varying amounts of traffic they carry. Roadways are a defining character within a community as they are physical buffers between land uses and are dominant physical features. The major roadways listed above are a part of a complex network of roadways that connect interchanges with the Meadowbrook Parkway and form linkages associated with traffic circulation,

proximate to the Subject Property. The traffic carried within this roadway network heavily contributes to the ambient noise levels in the surrounding community.

Overall, the vision for the MFM District, and thus the redeveloped site, is to promote innovative, sustainable and quality site and architectural design for mixed-use buildings and neighborhoods that will encourage economic investment and development and will provide housing, amenities and employment opportunities for current and future residents in accordance with a well-considered conceptual master plan for the District. Additionally, the intent of the District is that the redeveloped Coliseum site should: protect the special character of the greater Mitchel Field area; create an attractive physical environment that provides daily amenities and services for the enjoyment of the working, resident and visiting populations; and achieve harmonious visual and functional use relationships within the district and with adjacent neighborhoods.

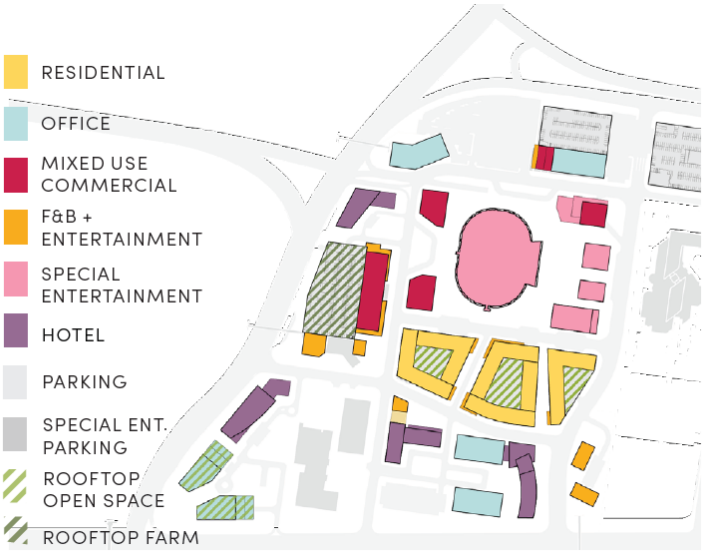
3.4.2 Probable Impacts

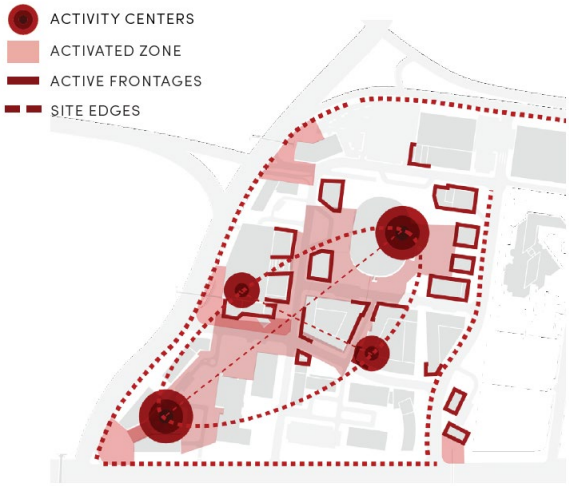
The Proposed Action includes the redevelopment of the Subject Property in accordance with the MFM District, with a request for certain modifications (as discussed below). As previously mentioned, the Nassau Coliseum already been renovated, and is a part of the Subject Property, although it is anticipated that the open space/plaza and memorial associated with the Coliseum will be redeveloped and enhanced as part of the overall development.[16] The redevelopment of the property surrounding the Nassau Coliseum into the Nassau Hub Innovation District would realize the Town's vision of the MFM District, and the overarching theme of "innovation everywhere" would fulfill the goals of the Town, and achieve the legislative purposes of the MFM District, as discussed herein. "Innovation Everywhere" would be realized through five elements that relate to land use and community character aspects. These include providing clear and intuitive access to the wider community and enhancing visibility to create identity for the project through connected destinations; ensuring that the development is comfortable to walk through and is activated at the street level; creating the right mix of uses to attract diverse populations; and ensuring that the development allows adaptability to respond to future market needs.

[16] Under the proposed program, although the Nassau Coliseum is located on the Subject Property, it is not a part of the Proposed Action and no improvements have been included, as the renovation of the Coliseum was already accomplished as part of a separate action.

Additionally, the framework of "innovation everywhere" includes understanding the community's wants and needs and providing relevant and meaningful amenities.

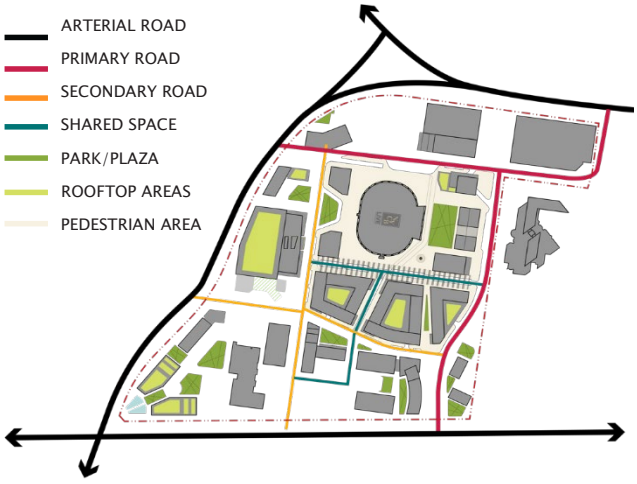
To achieve the goals outlined in the MFM Findings and codified in the MFM District, the Nassau Hub Innovation District incorporates four guiding principles (land use, urban design, open space and mobility) with specific strategies aimed at addressing these principles and realizing the CMP vision. The Land Use strategies involve providing opportunities and services within a short walking distance of where people live and work, creating a landscape of complementary uses that attract a diversity of users and foster synergies and activating spaces. Tactics include: layering uses, thereby allowing the combination of different uses in less space with easier connections between them (e.g., mixed-use buildings); activating ground floors, which creates a more vibrant experience in the public space and extends active uses to the streetscape; and activating elevated spaces and extending the public realm vertically (including onto garage rooftops).





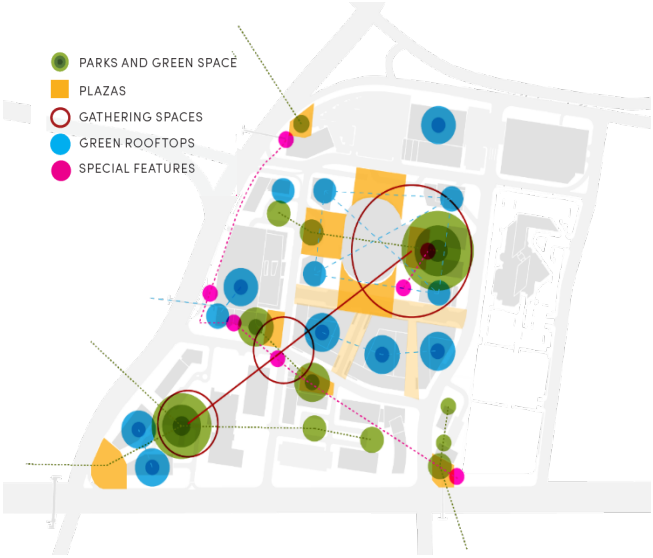
Strategies regarding Urban Design involve creating an active streetscape that focuses on the ground level (pedestrian) experience and considers a range of opportunities to extend outdoor space onto the public realm. Tactics include enhancing area centers, including providing connectivity between area centers; defining open space through the creation of a network of central open spaces connected through smaller open spaces; designing active frontages for retail, food, dining and entertainment to bring activity to the ground level, increasing the vibrance of the streetscape; and articulating and defining edges of the site to act as frontage for the area and/or to attract visitors.

Mobility strategies are centered around creating a walkable environment, emphasizing pedestrians and bicyclists and promoting traffic calming on internal streets. Enhancing mobility also includes making the redeveloped site a connected destination by providing clear and intuitive access to the wider community and enhancing visibility to create a clear identity. Incorporating innovation and technology in mobility is anticipated to include in-pavement and mounted sensors, digital signage and parking applications. Mobility tactics fall under four categories:



- Walk: safe, complete and accessible pedestrian realm that is active and vibrant
- Bike: protected or shared bike lands and a cycling network that connects the Subject Property with the surrounding community
- Transit: direct connection to bus rapid transit (BRT) and local bus lines, and dedicated rideshare drop-off/pick-up areas
- Vehicular: innovative technology to manage different traffic conditions, including temporary street closures, speed adjustments for event days, clear and real-time directions.

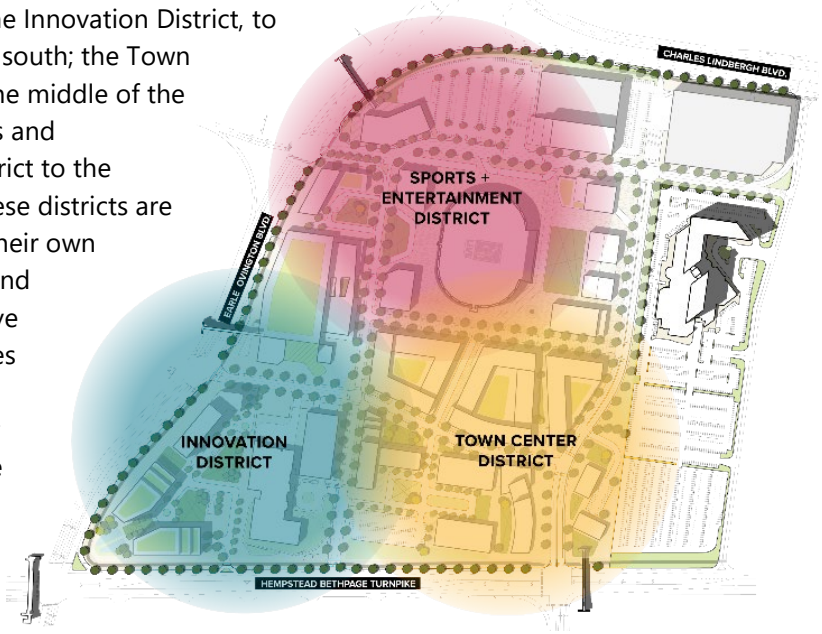
Open space strategies include creating a network of public spaces that serve multiple purposes connected by an activated streetscape. Tactics include providing gathering spaces, parks and plaza and rooftop parks for events and activities, and including special features in the landscape, including art installations and water features.



Together, these strategies and tactics address the intent of the MFM District, described above. The development of the Subject Property would be transformative, elevating the site from an underutilized and barren parcel, with the Nassau Coliseum situated within sea of asphalt, to a cutting edge, innovative and dynamic community. The Nassau Hub Innovation District would be a technology-driven, economic engine, providing a connected destination, a walkable environment, diverse and flexible uses, and varied user experiences. It would offer a live-work-play environment, which supports both "community" and economic growth. The goal of the Nassau Hub Innovation District is to create an inclusive, sustainable and connected 21st Century neighborhood. In addition to the office, lodging, retail, restaurant and entertainment uses, the critical mass of residences within this neighborhood ensures the continuous presence of people and extends the hours of the destination, creating the vibrant urban environment envisioned by the Town.

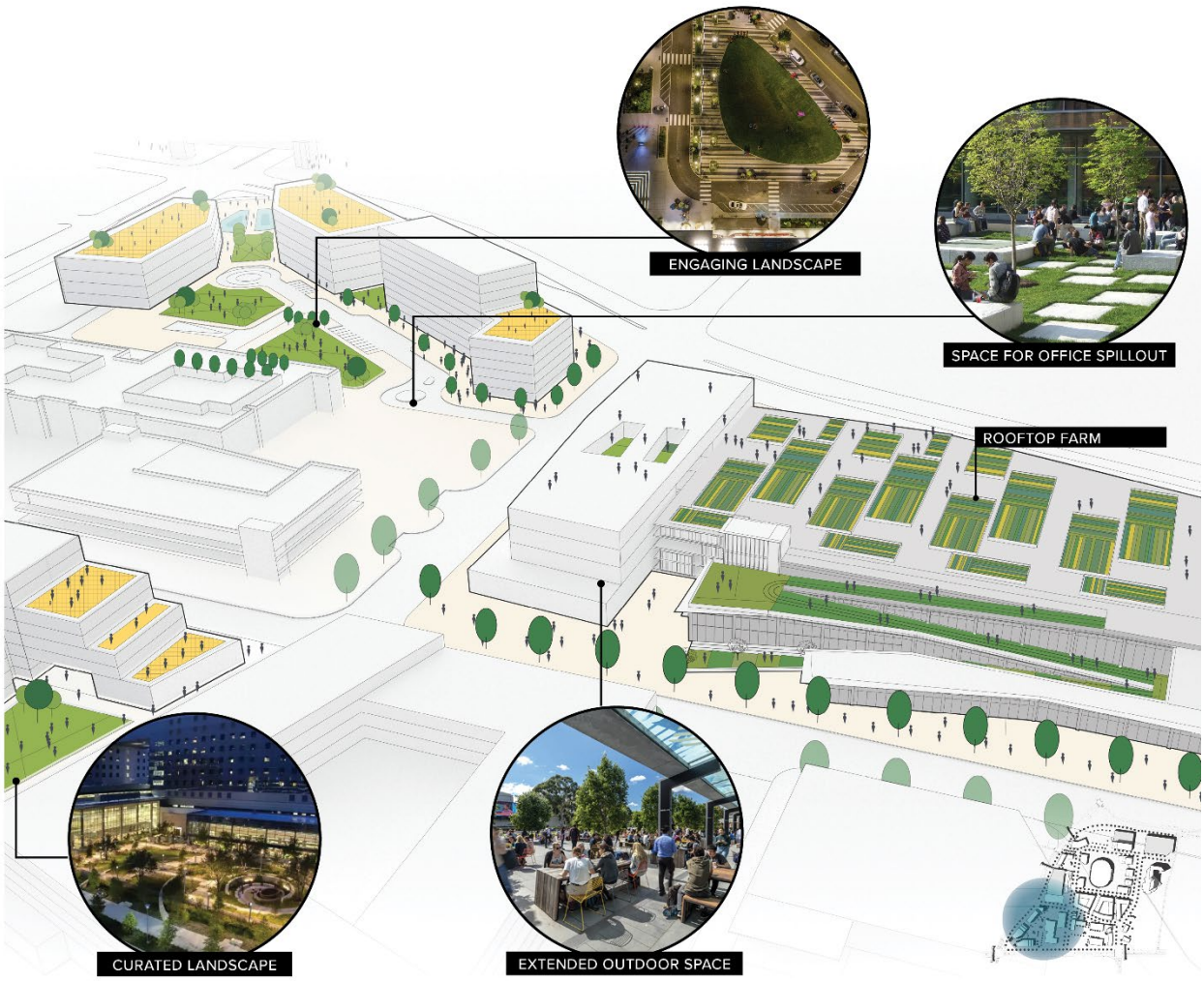
As fully described in detail in Section 1.2, *Project Description*, the Proposed Action would introduce office, R&D, hotel, restaurants, entertainment retail, cinema, theater, conference space and residential units, as well as associated parking. The contemplated development illustrates potential future pedestrian bridges connecting the Subject Property to the south side of Hempstead Turnpike and to the west side of Earle Ovington Boulevard in two locations. As the 71.6± acres consist predominantly of the Coliseum and its associated parking lots, the proposed land uses on the Subject Property would constitute a positive change from the existing underutilized site, which was analyzed in the FGEIS, contemplated in the MFM Findings Statement, and translated into the MFM District. In conformance with the MFM Findings Statement, implementation of the Proposed Action would accomplish one of the legislative purposes of the MFM District by promoting "the desirable and suitable use of land…and to provide opportunities for…redevelopment of land" around the Coliseum "in a manner consistent with sound planning principles."

In conformance with the legislative purpose of achieving functional relationships of uses within the district and with the adjacent neighborhoods, the proposed CMP illustrates the arrangement of the proposed uses on the Subject Property as three internal districts: the Innovation District, to the southwest and south; the Town Center District in the middle of the site; and the Sports and Entertainment District to the north and east. These districts are intended to have their own distinct character and identity yet will have overlapping spheres connecting the districts seamlessly through a cohesive streetscape and landscape design, see Section 3.9.2 for a detailed review of the proposed aesthetic environment of the Subject Property.

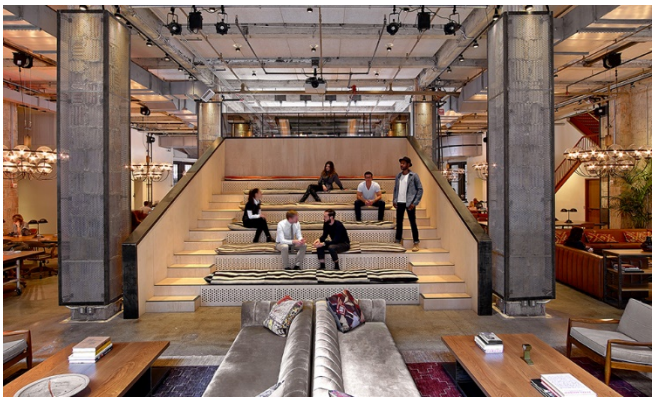


The proposed development also relates to the uses and neighborhoods adjacent to the site, as described below. Specifically, the proposed research and development center will complement the adjacent MSKCC facility as well as Hofstra Medical School, Hofstra University and Nassau Community College. The Innovation District would contain a cluster of offices and research and development uses, training facilities, hotels and small-scale retail spaces, anchored by a research and development center and the adjacent, off-site MSKCC facility. This district would have larger scale buildings with indoor spaces that have seamless connections that foster interactions. Connections between the indoors and outdoors are expected to be enhanced, for example, through transparent and permeable facades. A detailed description of the type of materials to be used for this district along with the others are within Section 3.9.2, Aesthetic Resources. The uses within this district are complementary to nearby research and educational uses such as the adjacent Hofstra University and MSKCC. Additionally, this district would include a structured parking garage, which is envisioned to include a rooftop farm, apiary, and potentially a greenhouse on the top level. This parking garage may have art installations and a living wall system to soften the views of the garage from public view. All of the parking garages also are expected to offer bike storage, ride share pick-up/drop-off space, sensor technology for parking, and electric vehicle charging. Regarding other anticipated sustainable measures anticipated to be implemented under the Proposed Action, refer to Section 3.10, Energy. Below are illustrative precedent photographs depicting streetscape, building and landscape designs that are suggestive of the type of development contemplated for the Innovation District.

Conceptual Illustration with Precedent Photographs

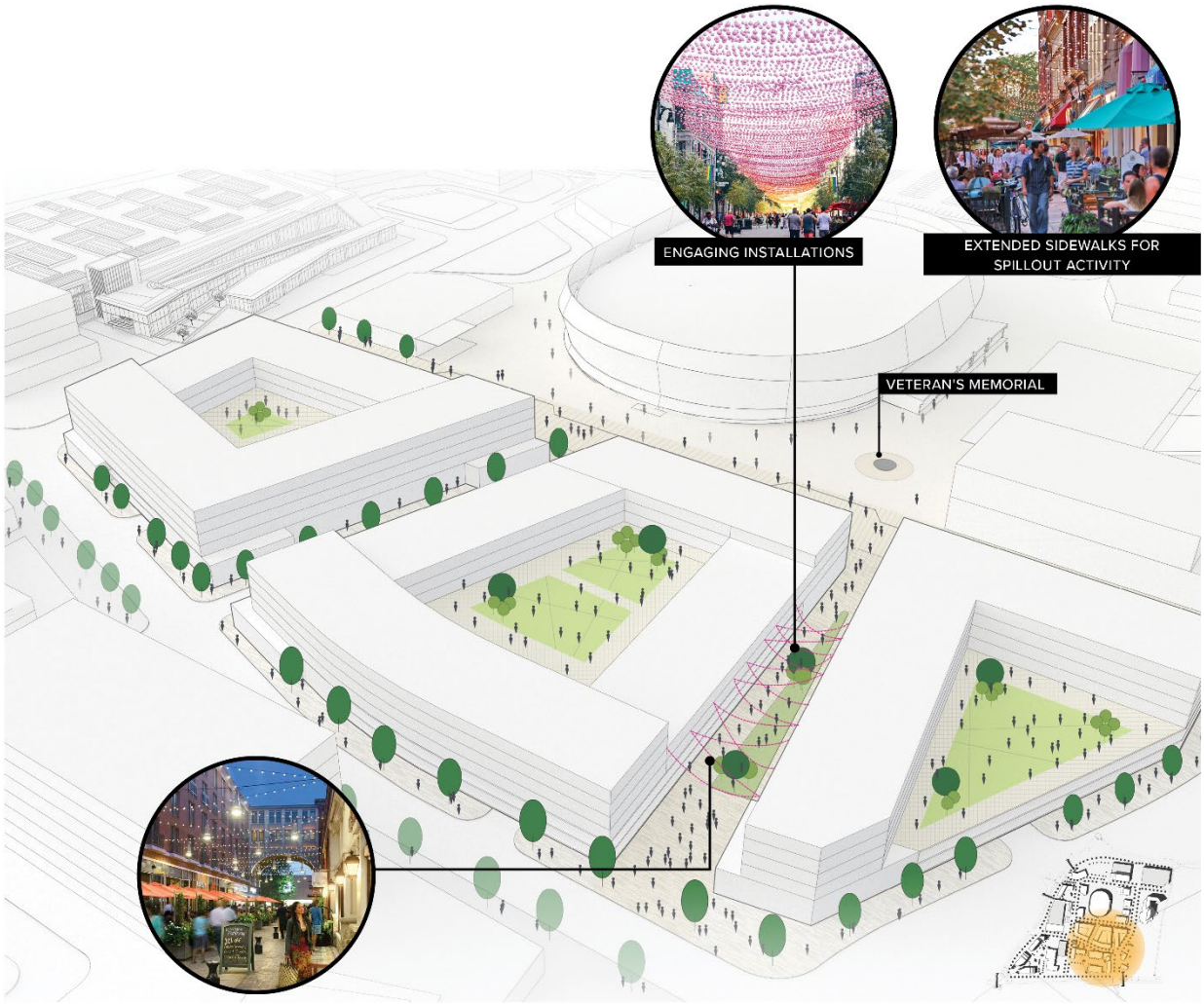


Illustrative Precedent Photographs

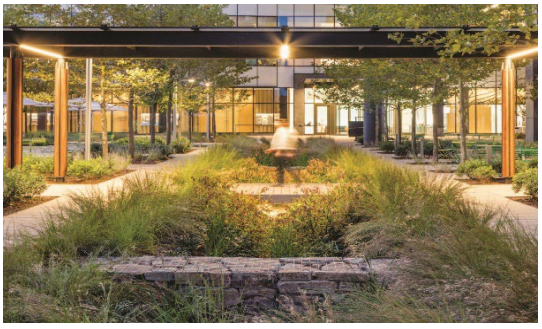


The Town Center District is proposed to contain multifamily residential buildings with ground floor retail and restaurants. Consistent with the MFM Findings Statement, the multifamily residential component of the Proposed Action would be limited to 500 units with 20% (100 units) being next generation/workforce housing, as defined in Article XIII, Section 137 of the BZO. The residential component contemplates a variety of housing models, including traditional multifamily units, as well as co-living units to meet the needs of many Long Islanders (e.g., 21st century young professionals, empty-nesters). As described in Section 1.2, purpose-built co-living is an innovative housing product that offers cost and space efficient individual bedroom units with shared communal spaces, premium amenities and high-touch services. Designed to facilitate the sharing of spatial (e.g., kitchens, living rooms, dining rooms) and program operations of a home, co-living provides an alternative to makeshift multi-bedroom units, while eliminating the pain points of living with roommates. Operators handle typical everyday sources of roommate friction, from weekly cleanings to restocking supplies, for an affordable rental price point. Renters are offered flexible lease terms with monthly flat rents that not only cover all amenities, utilities and services, but include the added benefits of a built-in community through weekly organized potlucks, game nights, and other communal social activities and programming. The scale of the spaces and buildings would create a sense of community and comfort, with the architecture fostering activity. Specifically, pocket parks, shared streets and plazas would be used as gathering spaces and home to temporary events such as markets or community parties. Below are illustrative precedent photographs and design images depicting building, streetscape and open space concepts contemplated for the Town Center District.

Conceptual Illustration with Precedent Photographs

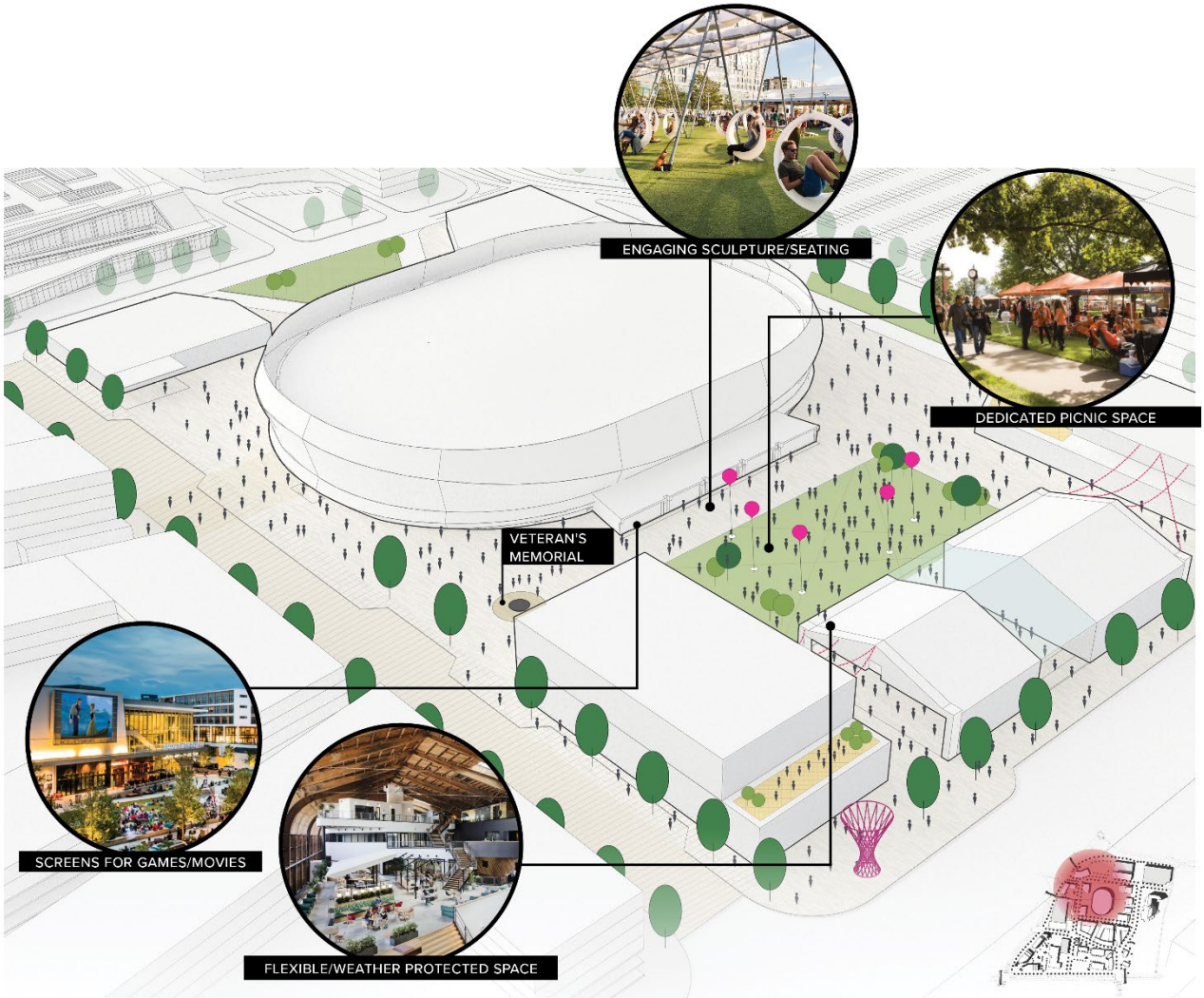


Illustrative Precedent Photographs

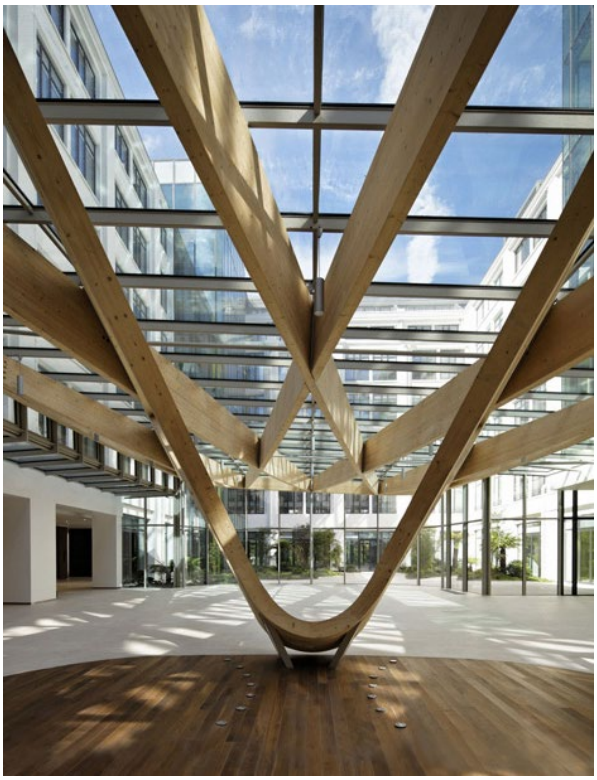


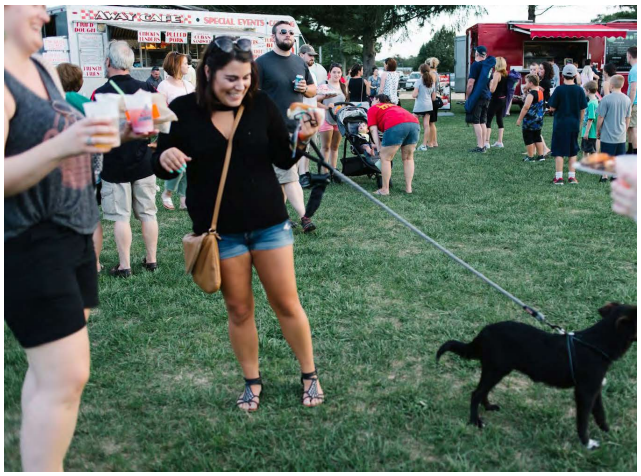
The Sports and Entertainment District, centered around the Nassau Coliseum, would be home to event/cultural venues (e.g., the proposed multiplex cinema and performing arts venue), and conference centers and office spaces, predominantly oriented around a large public plaza in front of Nassau Coliseum's main entrance. Below are illustrative precedent photographs illustrating building, landscape and streetscape concepts contemplated for the Sports and Entertainment District.

Conceptual Illustration with Precedent Photographs



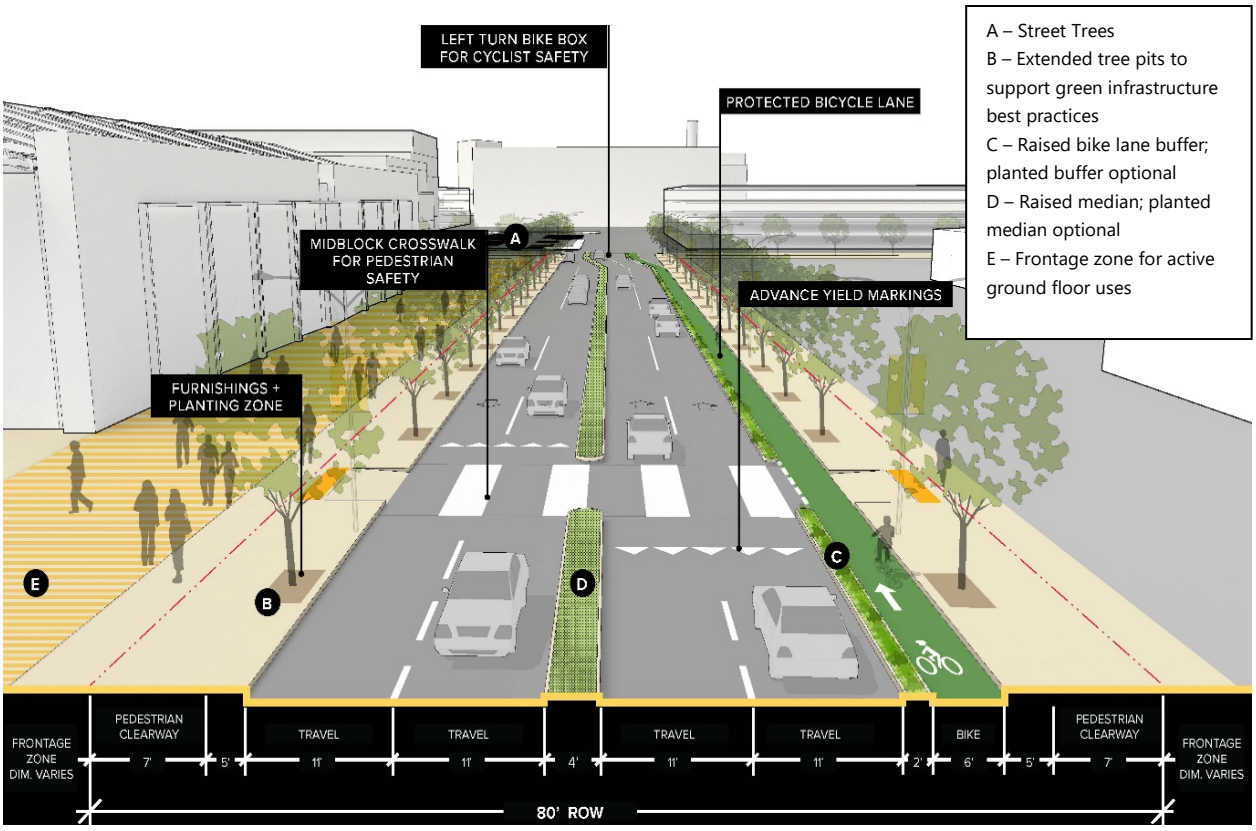
Illustrative Precedent Photographs





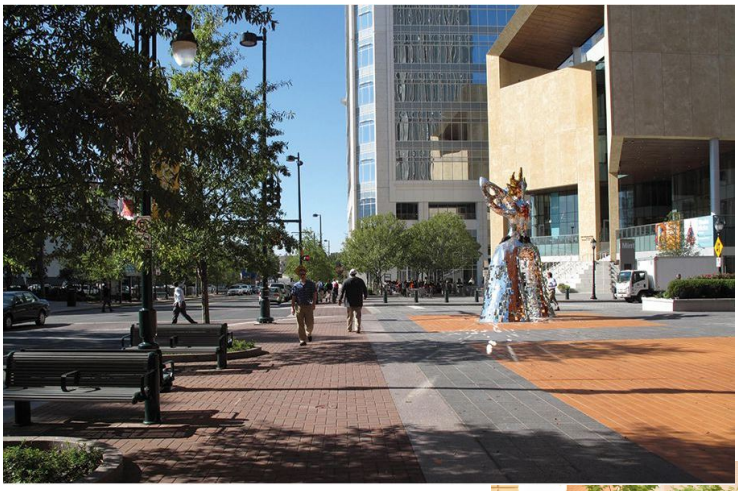
The three districts described above would be connected through proposed landscaping, open space and vehicular and pedestrian/bicycle circulation systems. Section 3.9.2. provides a more detailed description of each of the three districts in regard to aesthetics.

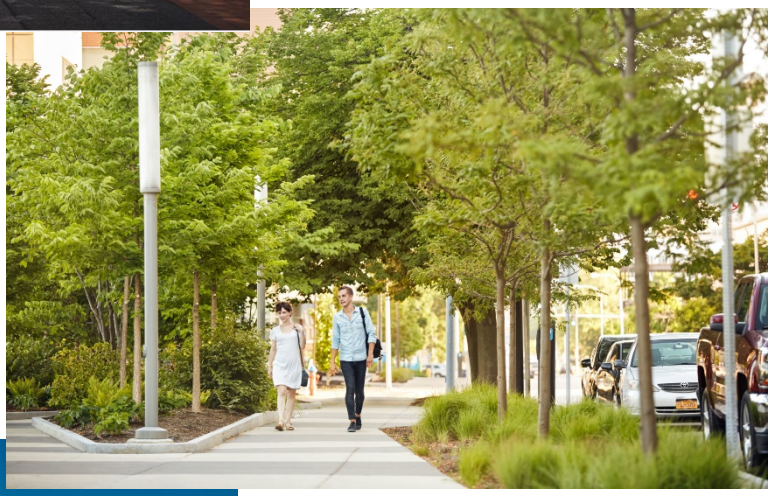
Connecting the three districts is the proposed internal roadway network (as shown in the mobility diagram, above). The roadway system is composed of three types of proposed roadways (primary/wide, secondary/narrow and shared). These roadways would include street trees, protected bike lanes, planting strips, medians, street furnishings, lighting and wayfinding signage. See examples of the various street types with anticipated features, below.

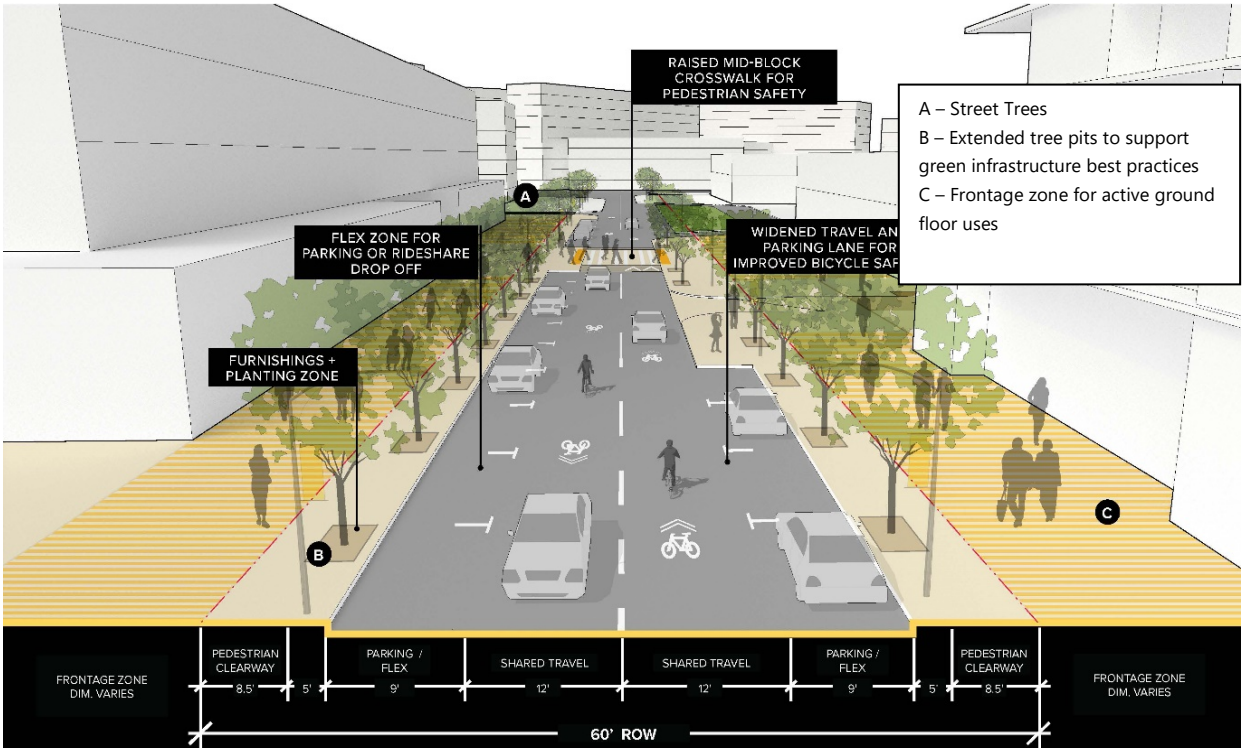


Primary (Wide) Street Design

Illustrative Precedent Photographs

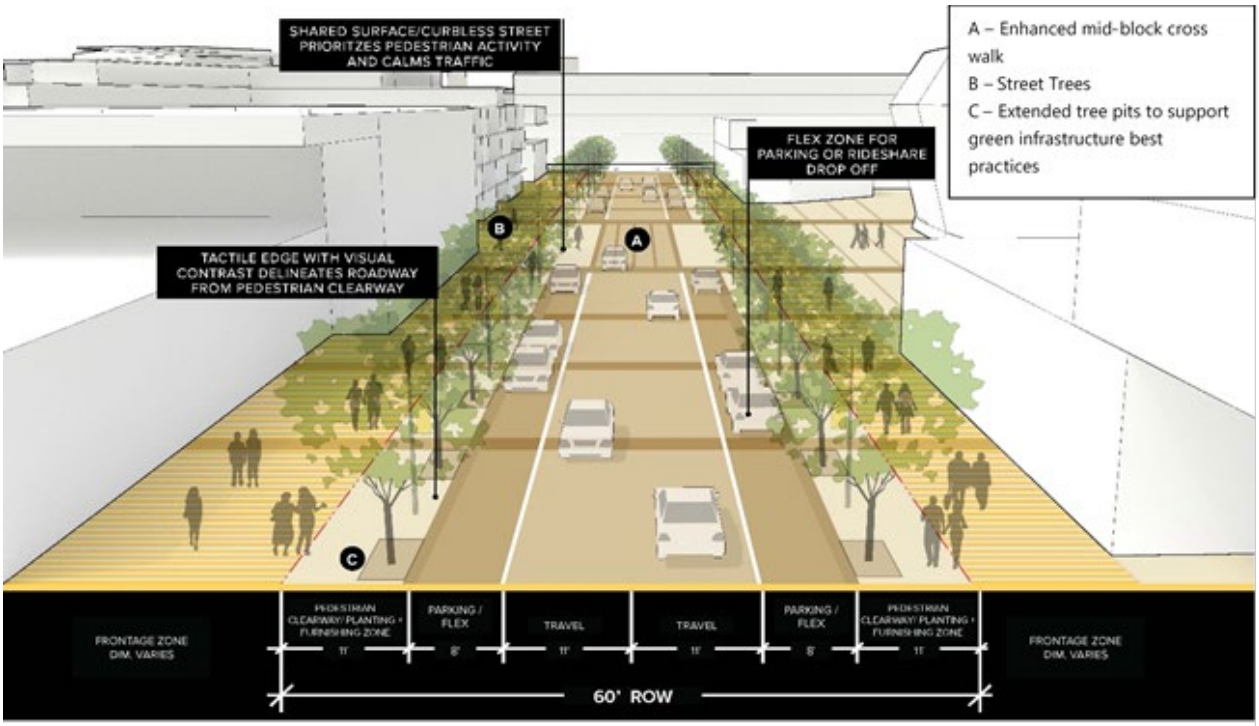






Secondary (Narrow) Street Design

Illustrative Precedent Photographs



Shared Street Design

Illustrative Precedent Photograph

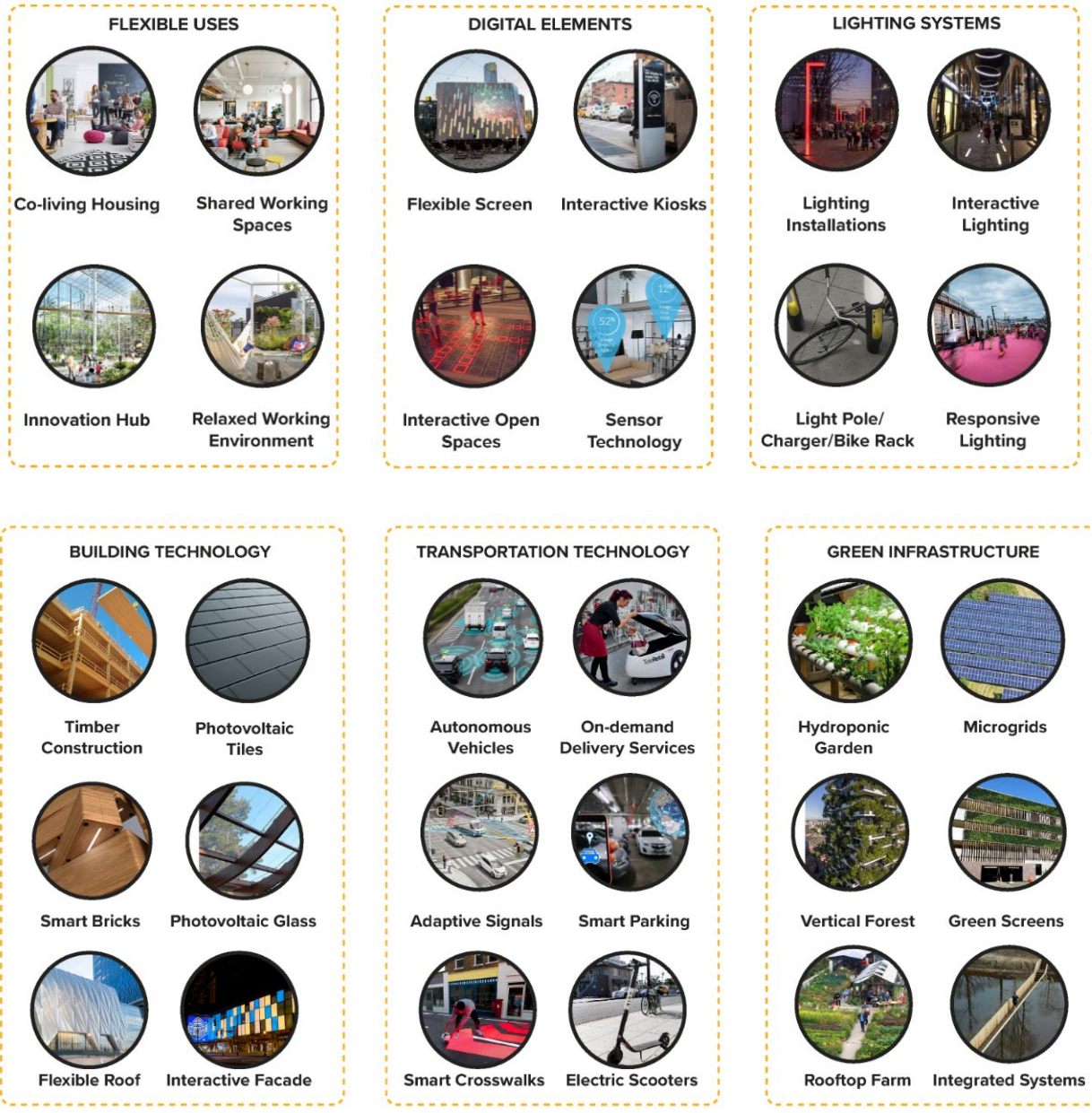
Illustrative Precedent Photographs

The streetscape elements incorporated into the design make for a pedestrian-friendly, as well as bicycle-friendly environment, while still allowing private and public transportation vehicles to move freely throughout the development. The streetscape as part of the complete streets concept (identified in the MFM District for inclusion in future project design) is unique in this site and responds to the community context, making the streets more accessible, user-friendly and an extension of the open spaces.

Illustrative Precedent Photograph

The Nassau Hub Innovation District is a development that is grounded in sound planning principles, incorporating the themes of sustainability and innovation. Each of the proposed land uses, within the three districts, would incorporate sustainable and green measures as required by Section 146.1.O(5) of the MFM District, and the overall design provides for high-quality architecture, landscape and streetscape, incorporating a number of innovation strategies (illustrated below), such as: flexible uses (e.g., shared working spaces, share living spaces); innovative lighting systems (e.g., interactive and responsive lighting); innovative building technology (e.g., use of photovoltaic glass and tiles, smart brick, interactive facades); transportation elements such as autonomous vehicles, adaptive traffic signals, smart parking, and smart cross-walks; digital elements (e.g., interactive kiosks, sensor technology and flexible screens); and green infrastructure, such as rainwater collection systems, vertical plantings (planting walls), green screens, purifying ponds, and hydroponic gardens.

Sustainable and Green Measures Being Considered under the Proposed Action



As shown in the Table 19, the changes in proposed land coverage, based on the anticipated development, are outlined below.

Table 19 – Existing and Proposed Land Coverages

Type of Coverage	Existing Coverage in Acres (Percent)	Proposed Coverage in Acres (Percent)
Roads, buildings, and other paved or impervious surfaces	64.0± (89%)	61.1± (85%)
Lawn, landscaping and pervious surfaces	7.6± (11%)	10.5± (15%)
Total:	71.6±	71.6±

This table shows that there would be an increase in pervious surfaces (including lawn and landscaping), with a corresponding decrease in impervious surfaces.

It is anticipated that the development of the Subject Property would be constructed in two major phases. As the proposed development is in the preliminary approval phase, it is not possible to determine specific tenancies. However, the table below provides a breakdown of the anticipated land uses in each of the construction phases.[17] Additionally, the table below demonstrates that the contemplated development is consistent with the uses that were previously analyzed in the FGEIS. These uses are in accordance with those permitted within the MFM District. The overall layout concept and specific uses are detailed in Section 1.2 of this Expanded EA.

Table 20 – Program Comparison: MFM FGEIS/Findings vs Anticipated Development Program

MFM FGEIS/Findings Program	Total at Full Build-Out	Anticipated Development Program	Total at Full Build-Out
Office	150,000 SF	Office/R&D Space	950,000 SF
Hotel	1,353 keys	Hotel	850 keys
Convention/Exhibition/ Meeting/Event Space	207,000 SF	Conference/Meeting Space	175,000 SF
Restaurants	90,500 SF	Restaurants	60,000 SF (2,000 seats)
Retail	275,000 SF	Entertainment Retail	150,000 SF
Multiplex Cinema	2,012 seats	Multiplex Cinema	600 seats (46,000 SF)
		Theater/ Performing Arts Venue	1,000 seats (57,000 SF)
Residential	468 units*	Residential	500 units
Coliseum	416,000 SF (20,000 seats)	Coliseum	416,000 SF (13,000 seats)

*Although 500 units permitted.

Specifically, in comparing the program under the MFM FGEIS/Findings to that of the current program under the Proposed Action, the uses are very similar, and specific uses like a performing arts venue and R&D further implement the Town's goals to

[17] As tenants are identified, there is a potential for the two major phases to be further divided into subphases. However, for conservative environmental analysis purposes, the impacts of construction in two major phases is analyzed herein.

preserve and protect the special character of the Mitchel Field area and to achieve the highest-quality sustainable development that preserves, protects and enhances the environmental, economic and human resources of the Town. Development of the Nassau Hub Innovation District would realize the Town's planning efforts for the Mitchel Field area and particularly the land surrounding the Nassau Coliseum.

Consistent with the MFM Findings, the land uses anticipated under the Proposed Action are compatible with both the entertainment uses associated with the Nassau Coliseum as well as the research and development uses associated with the MSKCC facility and neighboring higher education facilities. The proposed uses complement those in the surrounding area by redeveloping barren parking lots surrounding the Nassau Coliseum. Accordingly, with respect to land use and zoning, the proposed development is consistent with the requirement for the provision of a mix of uses that are both internally integrated and that also have a functional relationship with the surrounding community, as described in MFM Findings Statement and in the MFM District.

Implementation of the Proposed Action would enhance the aesthetic appeal of the Hempstead Turnpike corridor while being consistent with the overall character of the surrounding community, which contains a diversity of uses.

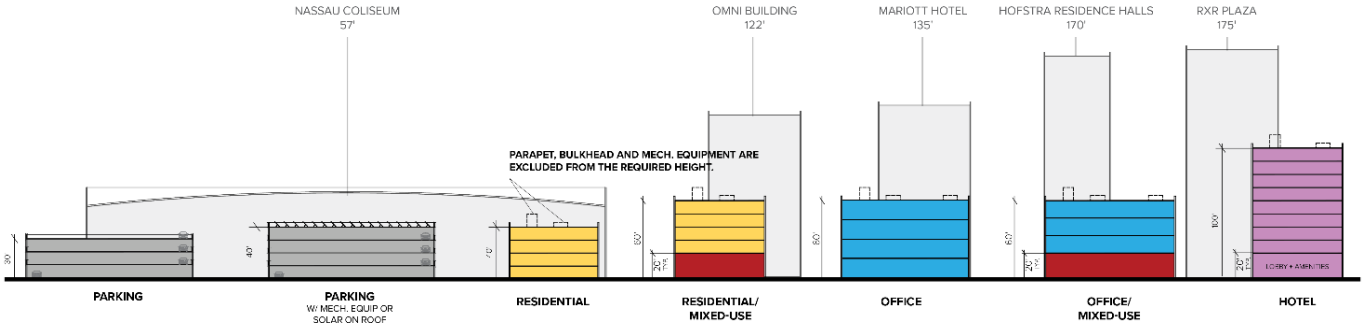
In accordance with Town requirements, the anticipated program meets the 1.6 FAR described in the MFM Findings Statement and codified in the MFM District. As specifically illustrated on the proposed CMP (Figure 4 and Appendix B), the total square footage of the anticipated buildings is approximately 2,765,000 SF. Moreover, when adding the parking garages and the Nassau Coliseum, the total square footage of the existing and anticipated buildings is approximately 4,211,477 SF. Therefore, based upon the square footages of the anticipated buildings divided by the net lot area of the Subject Property of 2,632,557.62 SF (60.4 acres), the FAR is 1.6, meeting the maximum permitted FAR of the MFM District. Therefore, the overall density of the development conforms to the intent and limitations described in the Findings Statement and codified in the MFM District.

The development contemplated under the proposed CMP complies with the majority of the bulk and dimensional, as well as other requirements of the MFM District, as demonstrated in Table 2. However, to achieve the vision outlined above (and in Section 1.2), several modifications are being requested in order to relax select provisions under the MFM District per Section 146.1Q(2). The following are being requested by the Applicant as part of the CMP application:

- *modification of the requirements of §146.1(H)(1) to permit a height for non-residential, mixed-use commercial and residential buildings of up to eight stories and 100 feet, whereas § 146.1.H(1) permits a maximum height of 4 stories and 60 feet for such uses.*

Under the existing height restrictions of the MFM District, development would result in a relatively flat, uniform, undistinguishable development within a site that is already flat with little visual interest, beyond the Coliseum building. Additionally, within the surrounding area of the Subject Property are several buildings ranging in

heights from 122 feet (Omni Building) to 170 feet (Hofstra Residence Halls) and 175 feet (RXR Plaza) that are taller than what is permitted in the MFM District.



Therefore, the Applicant is requesting that the maximum permitted height for non-residential, mixed-used and residential buildings be increased to 8 stories and 100 feet to allow for flexibility. This height, which would be no higher than the height already permitted for hotels in the MFM District, would be consistent with the heights for buildings that have been constructed in the Town and lower than buildings within the immediate area (e.g., Marriott Hotel, RXR Plaza and the Omni building, as shown in the graphic above). As illustrated on the proposed CMP, the heights for the buildings range from 20 feet to 100 feet (Appendix B). The flexibility in height would provide opportunities for taller buildings to be situated at strategic locations throughout the Subject Property, such as at the gateways into the Innovation District, at internal intersections and proximate to taller buildings located off-site to provide distinct visual elements in the landscape. The addition of some taller buildings situated throughout the Subject Property would allow for differing elevations that would enhance the visual interest at the Subject Property. It would also permit the Applicant to achieve the permitted FAR, while expanding the opportunity for more public open space and green space.

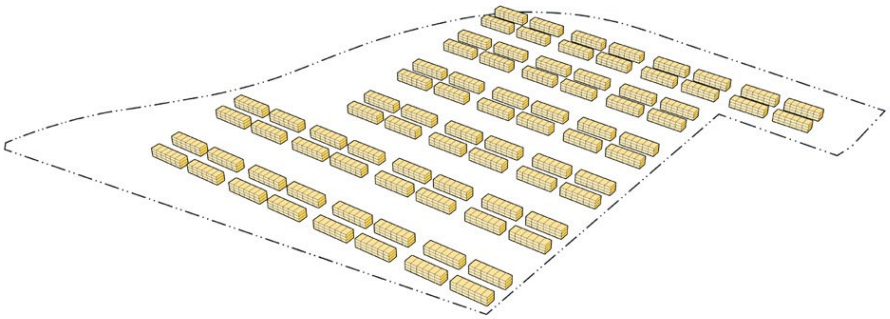
› *modification of the requirements of §146.1(H)(3) to permit parking structures to reach a height of 46 feet and to increase to a permitted height of 52 feet if refuse and delivery services areas are located within the ground floor of said parking structures, whereas § 146.1(H)(3) currently permits a maximum height of 40 feet for parking garages. Also, modification under §146.1(H)(3) to exclude rooftop green infrastructure, such as solar panels and greenhouses, from the maximum permitted height calculation.*

The freestanding parking structures are proposed at the height of 46 feet (six feet higher than permitted by the MFM District). The addition of six feet would accommodate the minimum clearance heights for parking. Adding six feet would allow four levels of parking above the ground level, thereby reducing the overall footprint of the parking structures. It is noted that the Town Board approved a modification of the height of the directly adjacent MSKCC parking garage height from 40 to 43.5 feet. The requested increase of an additional six feet (to 52 feet)

would allow for refuse storage and removal on the lower level of parking structures and to allow clearance for delivery trucks to access the rear entrances to the retail stores, which would alleviate both a physical and visual issue related to back-of-house activities. Additionally, the Applicant is anticipating installation of rooftop green infrastructure and solar panels on the top level of parking structure P1 and potentially others, that would serve a community benefit. These rooftop structures would be visible to passersby along Earle Ovington Boulevard, as well as off-site uses and the pedestrian bridge to the west and southwest of the Subject Property. The proposed on-site buildings would mostly block such facilities from the residential uses located south of Hempstead Turnpike. Rooftop structures on, for example, P2 and P3 are not located adjacent to sensitive visual receptors. The nearest uses include Charles Lindbergh Boulevard and the Nassau Energy Corp. facility to the north. These structures are not expected to have a significant adverse impact on surrounding uses. Therefore, the Applicant is requesting that the modification exclude rooftop green infrastructure from the maximum permitted height calculation.

› *modification of the "permitted uses" list contained in § 146.1(C). Specifically, it is requested that permitted use § 146.1(C)(15) be modified to read "residential and mixed-use residential and non-residential uses" and the limitation prohibiting more than six dwelling units per building be removed.*

The Applicant's CMP proposes 500 units (which complies with the MFM District) within three mixed-use buildings with parking structures below. As the MFM District now limits the number of dwelling units to six per building, approximately 84 buildings would have to be constructed in order to accommodate the maximum permitted 500 residential units, covering approximately 75% of the Subject Property. Covering the majority of the Subject Property with residential buildings would defeat the purpose of the MFM District to achieve a mix of uses that would take advantage of the Subject Property's proximity to the Coliseum, MSKCC, Hofstra University, NCC, large office complexes and other significant uses in the area. As shown on the proposed CMP, as the Applicant is proposing three buildings to accommodate the 500 units, such that the land coverage required for the residential uses to be significantly reduced, which would enable the housing to be more efficiently built on a smaller footprint, thereby allowing for the realization of an energized, mixed-use development in accordance with the Town's MFM District's goals. Therefore, the Applicant is requesting that the limitation prohibiting more than six dwelling units per building be removed.



The contemplated development is consistent with the MFM Findings in that it conforms to the FAR of 1.6 discussed in the Findings and codified in the MFM District. Also, as demonstrated herein, the contemplated development also is consistent with the Findings in that it is a mixed-use and planned walkable destination neighborhood that complements both the Coliseum and the surrounding neighborhoods and communities, through both land use connections and roadway connections and the creation of complete streets, which is discussed above and in Section 3.5.2 of this Expanded EA. The requested modification to the MFM District, as allowed by §146.1Q(2) would allow for design flexibility, thereby allowing the Applicant to provide greater diversity and interest on the site.

Modifying the NEC CMP to permit the creation of the Nassau Hub Innovation District as set forth above and permitting the modification of select provisions of the MFM District would allow the Applicant to achieve the Town's vision of a mixed use development, which incorporates ideas for improving mobility, providing access to green space and enhancing sustainability, as well as the other goals for the property that are outlined in Section 1.2, above. In furtherance of this vision, the mix of uses incorporated into the contemplated development and described herein would encourage economic investment in the Mitchel Field area and would provide housing, amenities and employment opportunities for current and future residents in accordance with a well-considered conceptual master plan, fulfilling the purposes of the MFM District.

The MFM Findings Statement indicates that developments are to include sustainable site and buildings practices with respect to design, construction methods and materials, and post-construction operation and maintenance to reduce the impacts to the environment. Additionally, the Findings Statement indicates that CMPs are to include plans for architectural, streetscape and landscape designs to ensure an efficient development of uses that are architecturally and visually appealing. The regulations are meant to encourage master plan elements that provide appropriate location, arrangement and design of buildings, parking area and structures and open space and site amenities to promote quality site, building and landscape design and integrate the architecture, landscape architecture and streetscape of the MFM District. As demonstrated by the analysis above, the proposed Nassau Hub Innovation District seamlessly incorporates architecture, landscape and streetscape elements to provide a connected destination with a pedestrian-friendly environment, diverse and flexible uses and substantial amenities. The contemplated development would create a sense of place and identity, as shown in the framework plans, while also connecting with the surrounding community. As described in Section 1.3, the Nassau Hub Innovation District would enhance the status of the Nassau Coliseum as a regional destination, strengthen economic opportunities and create a wide range of jobs, realizing the goals and objectives set forth by the Town.

Based on the foregoing, the contemplated development is consistent with the MFM Findings Statement with respect to land use, zoning and community character, as described herein and would enhance the land use of the site and the overall character of the area.

3.4.3 Proposed Mitigation

No significant adverse impacts to zoning, land use or community character have been identified in the foregoing analysis. Therefore, no mitigation measures are proposed, beyond the measures that have already been incorporated into the plan, as described above, and summarized below.

- The Nassau Hub Innovation District would incorporate a wide variety of uses that would interrelate and also connect to and take advantage of the assets, features and uses within the greater Uniondale area and surrounding communities, such as MSKCC, Hofstra, NCC, RXR Plaza, the Omni, Museum Row, and Eisenhower Park.
- Creating an Innovation District, which would become a center for the next generation of experts in the field of life sciences. include a mix of laboratory space, functions needed to support clinical and medical research, and facilities able to accommodate a range of exhibition, education, training and conference activities.
- Including hotels and meeting spaces to support the office/R&D development, as well as activities/events occurring at the entertainment and performance venues. The hotels would serve the on-site uses and would be developed to assist the Nassau Hub Innovation District in being a driver of tourism growth throughout Long Island.
- Introducing residential development into the community, which would fulfill a need for multifamily housing in the Town and region, providing different options and meeting the needs of the 21st century young professional. The presence of people before and after work through the incorporation of a critical mass of residences, extends the hours of the destination, creating a dynamic and vibrant environment that becomes the heart of the community. Including residences in the Nassau Hub Innovation District would make for a truly mixed-use development that offers a complete live-work-play environment.
- Linking the Innovation Center District, Town Center District and Sports and Entertainment District through a cohesive streetscape and landscape design, as well as the green space/public open space and the vehicular and pedestrian/bicycle circulation systems would create an integrated and connected destination.
- Providing amenities throughout the Nassau Hub Innovation District including entertainment retail, entertainment venues (including the Coliseum, cinema and theater/performing arts center), food and beverage establishments, open and green spaces, and vibrant and complete streets that emphasize the pedestrian experience would meet the needs of residents, employees and visitors.
- Incorporating varied building heights of both residential and non-residential structures that would allow for design flexibility. This would provide opportunities for taller buildings to be situated at strategic locations throughout the Subject Property. The proposed modification of the MFM District as allowed by §146.1(Q)2, would permit differing elevations that would provide for visual

diversity and interest, which could not be achieved with the existing height limitations.

- Modifying heights of proposed parking garages to permit refuse storage and collection, as well as delivery services at the ground floor of the parking structures, as well as encourage the incorporation of renewable and sustainable features in the parking structures in order to remove these activities from streets to minimize conflicts with the flow of vehicular, pedestrian and bicycle traffic and to screen them from public view.
- Developing a smaller number of larger residential buildings to permit the residential units to be constructed in a smaller footprint. This would create more area for open space and green space, and would allow for more diversity of uses, which would enhance the vibrancy of the Nassau Hub Innovation District.
- Layering uses, which allows for the combining of uses in less space with easier connections between them (e.g., mixed-use buildings).
- Activating the ground floor of buildings, through transparent facades, outward-facing lobbies, outdoor seating, etc., would extending active uses to the streetscape, creating a more vibrant public experience.

3.5 Traffic and Parking

A Traffic Impact and Parking Analysis (also known as Traffic Impact Study [TIS]) has been prepared for the proposed action. This study summarizes the comprehensive evaluation of the potential traffic impacts associated with the Nassau Hub Innovation District. The purpose of the TIS is to determine if there are any significant traffic impacts due to the proposed project and to evaluate and propose mitigation measures, if required. The TIS summarizes the study methodology, data collection process, traffic analysis procedures, and study conclusions and presents the findings of the traffic study. This section of the Expanded EA provides an overview of the existing conditions, potential impacts and proposed mitigation related to the anticipated development under the proposed CMP. While the proposed CMP is used in the TIS for the Full Build Condition (2027), the Phase 1 Build Condition in 2024 (see Table 3) was used for analysis of the interim year between the present day and the final Full Build year. See the complete TIS included in Appendix E of this Expanded EA for details regarding the traffic and parking analyses conducted for the Proposed Action.

3.5.1 Existing Conditions

Evaluation of the transportation impacts associated with the proposed project requires a thorough understanding of the current transportation system in the project study area. Existing transportation conditions include roadway geometry, traffic control devices, peak hour traffic volumes, roadway operating characteristics, and parking availability.

Roadway and Intersection Conditions

The principal roadways and intersections in the project area are noted below. The detailed descriptions of the roadways and key intersections include the geometric conditions and traffic control characteristics are discussed in the TIS in Appendix E.

Hempstead Turnpike (NY 24)

Hempstead Turnpike (NY 24), is a major east-west arterial roadway that falls under the jurisdiction of the NYSDOT. The section of NY 24 between Meadowbrook Road and the Suffolk County Line is designated as Hempstead Turnpike. West of Meadowbrook Road the designation changes to Fulton Avenue and the roadway is designated as Conklin Street as it enters Suffolk County.

Front Street (NY 102)

Front Street (NY 102), is a major east-west arterial roadway that falls under the jurisdiction of the NYSDOT. It runs southwest from its intersection with Hempstead Turnpike (east of the site), turns to travel west and again turns to travel northwest before terminating at its intersection with Fulton Avenue in West Hempstead.

Earle Ovington Boulevard

Earle Ovington Boulevard is a north-south collector roadway that falls under the jurisdiction of the NCDPW. It runs north from Hempstead Turnpike along the western frontage of the property to its intersection with Charles Lindbergh Boulevard at the Nassau Community College main access.

Charles Lindbergh Boulevard

Charles Lindbergh Boulevard is an east-west arterial roadway that falls under the jurisdiction of the NCDPW. It runs east along the northern frontage to the property from Quentin Roosevelt Boulevard to Merrick Avenue

James Doolittle Boulevard

James Doolittle Boulevard is a short north-south roadway under the jurisdiction of the NCDPW that connects Hempstead Turnpike and Charles Lindbergh Boulevard and runs along the east side of the project site.

Glenn Curtiss Boulevard

Glenn Curtiss Boulevard is a primarily north-south collector roadway that falls under the jurisdiction of NCDPW. It runs south from Hempstead Turnpike to Merrick Avenue and to the south of the project site.

Cunningham Avenue

Cunningham Avenue is a short north-south local roadway that runs south from Hempstead Turnpike to Cambria Street under the jurisdiction of the Town of Hempstead.

Uniondale Avenue

Uniondale Avenue is a north-south collector roadway that falls under the jurisdiction of NCDPW. It runs south from Hempstead Turnpike to Nassau Road, south of which it is designated Brookside Avenue.

California Avenue

California Avenue is a north-south local roadway under the jurisdiction of the Town of Hempstead that runs south from Hempstead Turnpike to Cedar Street.

Oak Street

Oak Street is a north-south collector roadway that falls under the jurisdiction of NCDPW. It runs north from Hempstead Turnpike to Commercial Avenue.

Coolidge Drive

Coolidge Drive is a north-south local roadway under the jurisdiction of the Town of Hempstead. It runs south from Hempstead Turnpike to Front Street.

Park Boulevard

Park Boulevard is a north-south roadway under the jurisdiction of the Town of Hempstead. It runs east and south from Stewart Avenue and Merrick Avenue to Hempstead Turnpike.

East Meadow Avenue

East Meadow Avenue is a north-south roadway under the jurisdiction of the Town of Hempstead. It runs south from Hempstead Turnpike to Newbridge Road (NY 106).

Post Avenue

Post Avenue is a north-south collector roadway that falls under the jurisdiction of NCDPW. It runs south from Jericho Turnpike to Old Country Road.

Merrick Avenue

Merrick Avenue is a north-south collector roadway that falls under the jurisdiction of the NCDPW. It runs south from Post Avenue and Old Country Road to the south shoreline.

Old Country Road

Old Country Road is a major arterial roadway under the jurisdiction of the NCDPW that runs in an east-west direction. It runs east from Herricks Road in Mineola to Jericho Turnpike (NYS Route 25) in the Town of Huntington.

Stewart Avenue

Stewart Avenue is an east-west arterial roadway under the jurisdiction of the NCDPW. Stewart Avenue runs east from Covert Avenue in New Hyde Park to Merrick Avenue. East beyond Merrick Avenue the roadway continues as Park Boulevard.

Merchants Concourse/Ellison Avenue/Endo Boulevard

Merchants Concourse is a north-south collector roadway under the jurisdiction of the NCDPW. It runs north from Stewart Avenue to Old Country Road. Merchants Concourse is designated as Ellison Avenue north of Old Country Road to Jericho Turnpike. Merchant Concourse is designated as Endo Boulevard south of Stewart Avenue to Nassau Community College.

Glen Cove Road

Glen Cove Road is a major north-south collector roadway under the jurisdiction of NCDPW. It runs north from Old Country Road to the City of Glen Cove.

Clinton Road

Clinton Road is a major north-south collector roadway under the jurisdiction of NCDPW. It runs south from Old Country Road to its southerly terminus at Peninsula Boulevard in Hempstead. South of Meadow Street as it enters Village of Hempstead to Peninsula Boulevard it is designated as Clinton Street.

Franklin Avenue / N. Franklin Street

N. Franklin Street/Franklin Avenue is a north-south collector roadway under the jurisdiction of NCDPW. It runs south from Old Country Road to 2nd Street, south of which it is designated as N. Franklin Street to Peninsula Boulevard in Hempstead.

Peninsula Boulevard

Peninsula Boulevard is a north-south collector roadway under the jurisdiction of NCDPW. It runs south from Fulton Avenue to Rockaway Turnpike in Cedarhurst. North of Fulton Avenue it is designated as Bennett Avenue.

Quentin Roosevelt Boulevard

Quentin Roosevelt Boulevard is a north-south collector road under the jurisdiction of the NCDPW. The road runs south from Stewart Avenue to Charles Lindbergh Boulevard. The roadway acts as a link between the Mitchel Field industrial and athletic parks and the Roosevelt Field Mall.

Commercial Avenue

Commercial Avenue is an east-west collector road under the jurisdiction of the NCDPW. The road runs east from Clinton Road to terminate east of Quentin Roosevelt Boulevard.

MFM District and Meadowbrook State Parkway

While the Meadowbrook State Parkway runs through the study area, and a ramp weaving analysis was prepared for the interchange with Hempstead Turnpike, it is not warranted to prepare a rigorous analysis of the mainline of the Parkway itself. Based on the findings of the MFM District study, it was ultimately concluded that there would be no impact from the site generated traffic on the freeway operation of the Meadowbrook State Parkway. The TIS incudes an evaluation of the merges and diverges from Hempstead Turnpike to and from the Meadowbrook State Parkway. See the TIS in Appendix E for additional details.

Study Intersections

The following study intersections were identified for analysis under the Existing, No-Build and future Build conditions (see Figure 9). These study intersections are inclusive of those studied for the MFM District as well as 14 additional intersections that were included per the direction of the NCDPW. Aerial views of the intersections and detailed descriptions of same are included in the TIS (see Appendix E).

1. Hempstead Turnpike at James Doolittle Boulevard
2. Hempstead Turnpike at Glenn Curtiss Boulevard/Nassau Coliseum Main Entrance
3. Hempstead Turnpike at Cunningham Avenue
4. Hempstead Turnpike at MSK Entrance
5. Hempstead Turnpike at Earle Ovington Boulevard/Uniondale Avenue
6. Earle Ovington Boulevard at Hofstra East Gate Road/Site Access
7. Charles Lindbergh Boulevard eastbound (EB) at Earle Ovington Boulevard/Site Access
8. Charles Lindbergh Boulevard westbound (WB) at Earle Ovington Boulevard/Nassau Community College
9. Charles Lindbergh Boulevard EB at James Doolittle Boulevard/Site Access
10. Charles Lindbergh Boulevard WB at Nassau Community College Perimeter Road
11. Merrick Avenue at Charles Lindbergh Boulevard
12. Hempstead Turnpike at Merrick Avenue
13. Hempstead Turnpike at Eisenhower Park Pedestrian Entrance
14. Hempstead Turnpike at Coolidge Drive
15. Hempstead Turnpike at Park Boulevard/East Meadow Avenue
16. Merrick Avenue at Glenn Curtiss Boulevard/Peters Gate
17. Hempstead Turnpike at California Avenue/Hofstra Boulevard
18. Hempstead Turnpike at Oak Street/Hofstra
19. Front Street & Merrick Avenue
20. Front Street & Uniondale Avenue
21. Front Street & California Avenue
22. Fulton Avenue at Peninsula Boulevard/Bennett Avenue
23. Fulton Avenue at Clinton Street
24. Fulton Avenue at N Franklin Street
25. Franklin Avenue at Stewart Avenue
26. Old Country Road at Franklin Avenue/Mineola Boulevard
27. Old Country Road at Clinton Road/Glen Cove Road
28. Old Country Road at Merchants Concourse/Ellison Avenue
29. Old Country Road at Merrick Avenue/Post Avenue
30. Merrick Avenue at Stewart Avenue/Park Boulevard
31. Stewart Avenue at Endo Boulevard/Merchants Concourse
32. Stewart Avenue at Quentin Roosevelt Boulevard/South Street
33. Stewart Avenue at Clinton Road
34. Oak Street at Commercial Avenue
35. Commercial Avenue at Quentin Roosevelt Boulevard

Not to scale

Nassau Hub Innovation District | Town of Hempstead, Nassau County

Study Intersections
Hamlet of Uniondale

1. Hempstead Tpke and James Doolittle Blvd
2. Hempstead Tpke and Glenn Curtiss Blvd/Nassau Coliseum Access
3. Hempstead Tpke and Cunningham Ave
4. Hempstead Tpke and MSK Entrance
5. Hempstead Tpke and Earle Ovington Blvd/Uniondale Ave
6. Earle Ovington Blvd and East Gate Rd/Nassau Coliseum Access
7. Earle Ovington Blvd and Charles Lindbergh Blvd EB/Nassau Coliseum Access
8. Charles Lindbergh Blvd WB and Earle Ovington Blvd/NCC Access
9. Charles Lindbergh Blvd EB and James Doolittle Blvd
10. Charles Lindbergh Blvd WB and Perimeter Rd
11. Merrick Ave and Charles Lindbergh Blvd
12. Hempstead Tpke and Merrick Ave
13. Hempstead Tpke and Eisenhower Park Pedestrian Entrance
14. Hempstead Tpke and Coolidge Dr
15. Hempstead Tpke and Park Blvd/East Meadow Ave
16. Merrick Ave and Glenn Curtiss Blvd/Peters Gate
17. Hempstead Tpke and California Ave/Hofstra Blvd
18. Hempstead Tpke and Oak Street/Hofstra
19. Front St and Merrick Ave
20. Front St and Uniondale Ave
21. Front St and California Ave
22. Fulton Ave and Peninsula Blvd/Bennett Ave
23. Fulton Ave and Clinton St
24. Fulton Ave and N Franklin St
25. Stewart Ave and Franklin Ave
26. Old Country Rd and Franklin Ave/Mineola Blvd
27. Old Country Rd and Clinton Rd/Glen Cove Rd
28. Old Country Rd and Merchants Concourse/Ellison Ave
29. Old Country Rd and Merrick Ave/Post Ave
30. Merrick Ave and Stewart Ave/Park Blvd
31. Stewart Ave and Endo Blvd/Merchants Concourse
32. Stewart Ave and Quentin Roosevelt Blvd/South St
33. Stewart Ave and Clinton Rd
34. Oak St and Commercial Ave
35. Quentin Roosevelt Blvd and Commercial Ave

Existing Traffic Volume Data

Peak period turning movement counts were collected at the 35 study intersections noted previously. The first phase of turning movement counts at the intersections listed below were collected using Miovision cameras on Tuesday, April 2, 2019 from 7:00 a.m. to 10:00 a.m. and from 4:00 p.m. to 7:00 p.m. The Saturday counts were collected on April 6, 2019 during the midday peak period from 11:00 a.m. to 3:00 p.m. Additionally, the event period counts were collected at these same locations on Monday April 1, 2019 from 5:00 p.m. to 11:00 p.m. During this time, there was an Islanders game versus the Toronto Maple Leafs at the Nassau Coliseum, which started at 7:00 p.m.

- Hempstead Turnpike at James Doolittle Boulevard
- Hempstead Turnpike at Glenn Curtiss Boulevard/Nassau Coliseum Main Entrance
- Hempstead Turnpike at Cunningham Avenue/MSK Entrance
- Hempstead Turnpike at Earle Ovington Boulevard/Uniondale Avenue
- Earle Ovington Boulevard at Hofstra East Gate Road/Site Access
- Charles Lindbergh Boulevard EB at Earle Ovington Boulevard/Site Access
- Charles Lindbergh Boulevard WB at Earle Ovington Boulevard/Nassau Community College
- Charles Lindbergh Boulevard EB at James Doolittle Boulevard/Site Access
- Charles Lindbergh Boulevard WB at Nassau Community College Perimeter Road
- Charles Lindbergh Boulevard EB at WB U-turn
- Charles Lindbergh Boulevard WB at EB U-turn

The second phase of turning movement counts at the intersections listed below were collected using Miovision cameras on Wednesday, October 23, 2019 from 7:00 a.m. to 10:00 a.m. and from 4:00 p.m. to 7:00 p.m. The Saturday counts were collected on October 26, 2019 during the midday peak period from 11:00 a.m. to 3:00 p.m. Additionally, the event period counts were collected at these same locations on Thursday October 24, 2019 from 5:00 p.m. to 8:00 p.m. During this time, there was an Islanders game versus Arizona Coyotes at the Nassau Coliseum, which started at 7:00 p.m.

- Merrick Avenue at Charles Lindbergh Boulevard
- Hempstead Turnpike at Merrick Avenue
- Hempstead Turnpike at Eisenhower Park Pedestrian Entrance
- Hempstead Turnpike at Coolidge Drive
- Hempstead Turnpike at Park Boulevard/East Meadow Avenue
- Merrick Avenue at Glenn Curtiss Boulevard/Peters Gate
- Hempstead Turnpike at California Avenue/Hofstra Boulevard
- Hempstead Turnpike at Oak Street

- Front Street & Merrick Avenue
- Front Street & California Avenue
- Front Street & Uniondale Avenue
- Fulton Avenue at Peninsula Boulevard/Bennett Avenue
- Fulton Avenue at Clinton Street
- Fulton Avenue at N Franklin Street
- Franklin Avenue at Stewart Avenue
- Old Country Road at Franklin Avenue/Mineola Boulevard
- Old Country Road at Clinton Road/Glen Cove Road
- Old Country Road at Merchants Concourse/Ellison Avenue
- Old Country Road at Merrick Avenue/Post Avenue
- Merrick Avenue at Stewart Avenue/Park Boulevard
- Stewart Avenue at Endo Boulevard/Merchants Concourse
- Stewart Avenue at Quentin Roosevelt Boulevard/South Street
- Stewart Avenue at Clinton Road
- Oak Street at Commercial Avenue
- Commercial Avenue at Quentin Roosevelt Boulevard

Summaries of the turning movement counts can be found in Attachment A of the TIS (see Appendix E of the Expanded EA). In preparing the analyses contained herein, a common network peak hour analysis period was selected within the larger count periods for the intersections immediately surrounding the site (identified as the locations observed during April of 2019); these hours are as follows:

- Weekday a.m. Peak Hour: 7:45 a.m. to 8:45 a.m.
- Weekday p.m. Peak Hour: 5:00 p.m. to 6:00 p.m.
- Saturday Midday Peak Hour: 1:00 p.m. to 2:00 p.m.
- Event Period Peak Hour: 6:00 p.m. to 7:00 p.m.

For the study intersections that extend outside of the site, local intersection peak hours were selected to provide an analysis for the "worst-case" scenario at each location. In doing so, the TIS represents a conservatively high estimate of roadway conditions.

The roadway network volumes immediately surrounding the site were balanced, where appropriate, to represent a consistent flow of traffic where the roadway network is uninterrupted. Locations outside of the site core were not balanced due to minor fluctuations in the peak hours creating minor imbalances in the volumes.

The existing peak hour weekday a.m., weekday p.m. and Saturday midday traffic volumes are shown in Figures 3, 4 and 5, respectively, and the existing Event period volumes are shown in Figure 6 of the TIS in Appendix E of the Expanded EA.

Comparison with MFM FGEIS Traffic Study

The FGEIS, which led to the establishment of the MFM District, ultimately projected the traffic volumes forward to a Build Year of 2019. Accordingly, a comparison of the Build Year 2019 volumes from the MFM Zoning District analysis and the 2019 existing traffic volumes at the intersections listed below was completed.

- Hempstead Turnpike at James Doolittle Boulevard
- Hempstead Turnpike at Glenn Curtiss Boulevard/Nassau Coliseum Main Entrance
- Hempstead Turnpike at Earle Ovington Boulevard/Uniondale Avenue
- Hempstead Turnpike at Earle Ovington Boulevard/Uniondale Avenue
- Earle Ovington Boulevard at Hofstra East Gate Road/Site Access
- Charles Lindbergh Boulevard EB at Earle Ovington Boulevard/Site Access
- Charles Lindbergh Boulevard WB at Earle Ovington Boulevard/Nassau Community College
- Charles Lindbergh Boulevard WB at EB U-turn
- Charles Lindbergh Boulevard EB at James Doolittle Boulevard/Site Access
- Charles Lindbergh Boulevard WB at Nassau Community College Perimeter Road

A summary of the turning movement counts by approach and by intersection at each intersection can be found in Attachment A of the TIS (see Appendix E). A review of the projected 2019 traffic volumes in the MFM Zoning District study (in the MFM FGEIS) and traffic volumes collected for this study, show that the current volumes at the majority of the intersections are approximately 20 percent to 50 percent lower than the projected volumes. This comparison illustrates that volumes in the study area have not reached the level that was previously estimated to occur by 2019.

Automatic Traffic Recorders

To gain a more thorough understanding of traffic conditions in the area throughout the day, 24-hour directional traffic volumes were obtained using Automatic Traffic Recorders (ATR). ATRs were installed in two phases. In the first phase ATRs were installed for a period of 7 days from Monday, April 1, 2019 to Sunday, April 7, 2019 at 11 intersections close to the subject property. In the second phase ATRs were installed for a period of 7 days from Saturday, November 2, 2019 to Friday, November 8, 2019 at four intersections. Summaries of the turning movement count data and ATR data are provided in Attachment A of the TIS (see Appendix E).

Crash History

Crash data from the New York State Department of Transportation (NYSDOT) Accident Location Information System (ALIS) records for the most recent available three-year period were requested. Accident Verbal Description Reports (VDRs) for

the period April 1, 2016 through March 31, 2019 were obtained for the following roadway segments:

- Hempstead Turnpike (NY 24) – From Oak Street to Park Boulevard/ East Meadow Avenue
- Glenn Curtiss Boulevard – From Hempstead Turnpike (NY 24) to Merrick Avenue
- Merrick Avenue – From Charles Lindbergh Boulevard to Glenn Curtiss Boulevard
- Charles Lindbergh Boulevard – from Earle Ovington Boulevard to Merrick Avenue
- Earle Ovington Boulevard – from Charles Lindbergh Boulevard to Hempstead Turnpike (NY 24)
- Front Street (NY 102) – From Merrick Avenue to California Avenue

The crash data included the roadway segments immediately surrounding the site location and on the roadway segments along corridors that were evaluated (excluding ramps) and all study area intersections.

Detailed crash data can be found in Attachment B of the TIS. Tables 1 and 2 in the TIS provide a summary of the most recent history of the intersection and non-intersection crashes.

Given the nature of the roadways in the study area, mainly major State and County arterials with wide multi-lane approaches, dense level of access from adjacent properties, complex phasing and high traffic volumes, it is not unexpected that the crash history data indicate a relatively high level of crash occurrence. The introduction of the traffic due to the redevelopment of the project site will increase traffic levels in the study area to an extent. This is likely to result in some level of additional crashes occurring on the study area roadways due simply to the fact that there will be more vehicles on the road and not due to any inherent reduction in safety.

3.5.2 Potential Impacts

The analysis of potential impacts (future conditions), without and with the proposed project ("No-Build" and "Build" conditions, respectively), was performed to evaluate the effect of the proposed project on future traffic conditions in the area. Background traffic volumes in the study area were projected to the year 2024, reflecting the year when the first phase of the project is expected to be completed and operational. Subsequently, the second phase of the project (Full Build), is to be completed in 2027. The No-Build Condition represents the future traffic conditions that can be expected to occur, even if the proposed project is not constructed. The No-Build Condition serves as a comparison to the Build Condition, which represents expected future traffic conditions resulting from both project and non-project generated traffic.

Phase I - 2024

No-Build Condition

No-Build traffic volumes include all existing traffic and new traffic due to background traffic growth and any other significant planned developments in the immediate vicinity of the project site.

To account for increases in general population and background growth not related to the proposed project, an annual growth factor was applied to the existing traffic volumes. Based on the NYSDOT's published traffic growth rates, the growth rate anticipated for the Town of Hempstead is 0.6% percent per year. A total growth rate of 3.0% (5 years at 0.6% per year) was applied to the 2019 traffic data to develop the background traffic based on the anticipated Build year of 2024.

The Town of Hempstead was contacted for information regarding other planned developments (OPD) in the vicinity of the subject property that may impact the traffic volumes on the adjacent roadway network. One development was identified via a telephone conversation with representatives from the Town on Tuesday November 12, 2019 and is discussed below and a second was identified from the files of VHB.

695 Merrick Avenue consisting of 400 units of what is described as a hybrid of apartment and hotel units.

Engel Burman - Uniondale, located in A. Holly Patterson Extended Care facility on Jerusalem Avenue, west of 1st Street in Uniondale, this is a residential development consisting of 388 rental units (including 198 age-restricted).

The site-generated traffic from this other planned development passing through the key intersections identified for this study, for the weekday a.m., weekday p.m. and Saturday midday peak hours, is shown in Figures 7, 8 and 9 of the TIS.

To obtain the 2024 No-Build traffic volumes at the study intersections, the trips anticipated to be generated by the other planned developments in the area were added to the existing traffic volumes plus background traffic growth. The No-Build traffic volumes for the weekday a.m., weekday p.m. and Saturday midday peak hours are shown in Figures 10, 11 and 12 of the TIS, respectively.

The Nassau/Suffolk Transportation Improvement Program (TIP) is a five-year listing that identifies all proposed federally funded transportation improvement projects in the New York Metropolitan Transportation Council (NYMTC) region. These improvements cover various transportation modes and facilities, including roadways and bridges, bicycle and pedestrian facilities, transit equipment and services, safety improvements and demand management programs. Projects funded through other sources are also identified to provide a more comprehensive picture of proposed transportation improvements in the region. Discussions with NCDPW representatives indicate, however, that no capacity improvements are proposed, and future signal timing and system settings are not known at this time. Therefore, for the purposes

of this analysis, future years analysis assumed a coordinated signal system is in place with the existing intersection timings retained.

Phase I Build Condition - 2024

To estimate the traffic impact of the proposed redevelopment, it is necessary to determine the traffic volumes expected to be generated by the proposed project. The Nassau Hub Innovation District site includes the Nassau Coliseum, as well as Memorial Sloane Kettering Cancer Center. These two facilities were operating when the traffic counts for this study were performed. As noted, the Innovation District is proposed to be developed in two phases; Phase I and Full Build. Phase I is expected to be completed and occupied by 2024, and the Full Build by the year 2027. The land uses assigned to the components of the CMP were selected to represent the uses most likely to occupy the proposed buildings on the site. As the development of the Nassau Hub Innovation District will take place over the course of many years, requiring individual site plans for each development component, it is not possible to predict the exact size and mix of land uses that will be constructed. As the specific tenancy is not known at this time, the chosen land use classifications represent the most probable types of uses contemplated under the CMP. Individual site plans for each development component will be reviewed as part of the site plan approval process. During that process, the subject site plan will be reviewed against the traffic levels analyzed as part of this study. Phase I trip generation and volume conditions are detailed below. The development plan for Phase I is shown in Table 21, along with the trip generation based on the Institute of Transportation Engineers (ITE) Land Use Code (LUC).

Table 21 – Anticipated Development Plan – Phase I: ITE Land Use Codes

Land-Use Component	Size/Density/Units	Trip Generation Reference
General Retail – Shopping Center	110,000 SF GLA	ITE LUC#820
Food, Dining & Entertainment	60,000 SF GLA	ITE LUC#931 & #931
Hotel	260 Rooms	ITE LUC#310
Office	148,000 SF GFA	ITE LUC#712
Research & Development Center	188,000 SF GFA	ITE LUC#760
Multiplex Theater	600 Seats	ITE LUC #445
Multi-family Residential – Mid-Rise 3 to 10 levels	500 units	ITE LUC#221
Venue/Performing Arts Theater	1,000 Seats	Empirical Data from Coliseum
Conference/Convention Center	75,000 SF	Previous MFM Study

Project-Generated Traffic Volumes

In order to estimate the net project-generated traffic, a review was undertaken of available trip generation data sources, including the reference published by the

Institute of Transportation Engineers (ITE), *Trip Generation Manual, 10th Edition*. This widely used reference source contains trip generation rates for numerous land uses, including the majority of those listed above. For the Performing Arts Theater and the conference/convention centers, other data sources were utilized to determine peak hour generation, as indicated in the table. Table 4 in the TIS summarizes the unadjusted trip generation for the Phase I development.

Adjustments to Peak Hour Trips

The methodology presented in the previous section utilized trip generation statistics to calculate gross (unadjusted) peak hour site (or driveway) volumes. The sum of the peak hour volumes for each of the components does not account for a number of factors which influence the actual level of trip making to the site that should be accounted for in accurately predicting peak hour trips to and from the site. These adjustments are performed in keeping with standard and accepted practice as set forth by ITE and accepted by reviewing transportation agencies. These factors adjust the gross trip generation to account for the location of the site and the interrelationship amongst the specific uses on the site. In addition, adjustments are made to reflect the fact that some land uses attract visitors from the adjacent roadways that are already travelling in the area and are not new trips. To provide a more accurate estimate of future new trips and serve as the basis for an accurate estimate of potential impacts, adjustments to account for Internal Capture, Transit Trips and Pass-By Trips are detailed in the TIS (see Appendix E).

Net Site Trips

From the gross unadjusted trip generation presented in Table 4 of the TIS, the internal capture trips as shown in Table 5 of the TIS and the transit trips as shown in Table 6 of the TIS were deducted from the respective land-use components to obtain the net external trips likely to be generated by Phase I of the CMP. Finally, from the remaining gross retail and restaurant component trips, the pass-by trips as shown in Table 8 of the TIS were deducted. The net external trips generated by the CMP in Phase I are presented in Table 22, below. Also included is the percent reduction in trips for each peak period as compared to the total gross (unadjusted) trip projections.

Table 22 – Net External Trip Generation – Phase I

COMPONENT	AM Peak Hour Trips		PM Peak Hour Trips		Saturday Midday	
	Entering	Exiting	Entering	Exiting	Entering	Exiting
Retail & Restaurants	56	47	265	168	342	255
Hotel	67	31	47	50	62	54
Office	235	28	109	279	29	39
Multiplex	0	0	14	9	16	6
Multi-family Residential	47	133	134	86	108	112
Theater/Venue & Conference/Convention Space	10	3	240	35	296	68
Totals	**415**	**242**	**809**	**627**	**853**	**534**
	657		**1,436**		**1,387**	
Percentage Reduction from Gross	**31.1%**		**37.2%**		**38.7%**	

Trip Distribution and Assignment – Phase I

The Traffic Study performed to evaluate the transportation implications of the adoption of the Mitchel Field Mixed-Use District (MFM Study), as well as the study performed for the previous Lighthouse proposal for the site, included a detailed projection of the distribution of site generated traffic from the Subject Property. The trips generated by the project site were assigned to the local roadway network are shown in the TIS. The resulting site generated traffic volumes for the weekday a.m., p.m. and Saturday midday peak hours are shown in the TIS.

To determine the future Phase I Build Condition traffic volumes, the project-generated trips during Phase I were added to the No-Build traffic volumes at the key intersections. The resulting Build traffic volumes for the weekday a.m., p.m. and Saturday midday peak hours are shown in the TIS.

No-Build - 2027

To account for increases in general population and background growth not related to the proposed project, an annual growth factor was applied to the existing traffic volumes. Based on the NYSDOT's published traffic growth rates, the growth rate anticipated for the Town of Hempstead is 0.6% percent per year. A total growth rate of 4.8% (5 years at 0.7% per year) was applied to the 2019 traffic data to develop the background traffic based on the anticipated Full Build year of 2027. To obtain the 2027 No-Build traffic volumes at the study intersections, the trips anticipated to be generated by the other planned developments in the area were added to the existing traffic volumes plus background traffic growth. The No-Build 2027 traffic volumes for the weekday a.m., weekday p.m. and Saturday midday peak hours are included in the TIS.

Full Build- 2027

The development plan for the Full Build of the Nassau Hub Innovation District is reproduced in Table 23 along with the appropriate ITE LUCs.

As with Phase I, the land uses assigned to the components of the CMP were selected to represent the uses most likely to occupy the proposed buildings on the site. As the specific tenancy is not known at this time, these use classifications represent the most probable types of uses contemplated under the CMP.

Table 23 – Anticipated Development Plan – Full Build: ITE Land Use Codes

Land-Use Component	Size/Density/Units	Trip Generation Reference
General Retail – Shopping Center	150,000 SF GLA	ITE LUC#820
Food, Dining & Entertainment	60,000 SF GLA	ITE LUC#931 & 931
Hotel	850 Rooms	ITE LUC#310
Office	400,000 SF GFA	ITE LUC#712
Research & Development Center	500,000 SF GFA	ITE LUC#760
Multiplex Movie Theater	600 Seats	ITE LUC#445
Multi-family Residential Mid-Rise 3 to 10 levels	500 units	ITE LUC#221
Venue/Performing Arts Theater	1,000 Seats	Empirical Data from Coliseum
Conference/Convention Center	175,000 SF	MFM Study

As noted for Phase I, the development of the Nassau Hub Innovation District will take place over the course of many years, requiring individual site plans for each development component to be reviewed as part of the site plan approval process. During that process, the subject site plan will be reviewed against the traffic levels analyzed as part of this study.

Project-Generated Traffic Volumes

Table 11 of the TIS summarizes the unadjusted trip generation estimates for the Full Build development mix. Adjustments to the gross peak period trip generation were performed in the same fashion as done for Phase I using Internal Capture, Transit Trips and Pass-By Trips. See the TIS in Appendix E of the details of these three adjustment factors.

Net Site Trips

The net external trips generated by the site are presented in Table 24. Also included is the percent reduction in trips for each peak period as compared to the total gross (unadjusted) trip projections.

Table 24 - Net External Trip Generation – Full Build

COMPONENT	AM Peak Hour Trips		PM Peak Hour Trips		Saturday Midday	
	Entering	Exiting	Entering	Exiting	Entering	Exiting
Retail & Restaurants	**63**	**52**	**298**	**205**	**378**	**299**
Hotel	**222**	**124**	**214**	**215**	**284**	**230**
Office	**706**	**133**	**320**	**813**	**119**	**103**
Multiplex	**0**	**0**	**14**	**9**	**16**	**6**
Multi-family Residential	**47**	**133**	**134**	**86**	**108**	**112**
Theater / Venue & Conference/Convention Space	**23**	**6**	**408**	**54**	**304**	**74**
Totals	**1,061**	**448**	**1,388**	**1,382**	**1,209**	**824**
	1,509		**2,770**		**2,033**	
Percentage Reduction from Gross	**21.4%**		**26.9%**		**34.1%**	

MFM District Traffic Comparison

A comparison of the MFM District program v. the anticipated development program under the CMP is provided in the TIS. For the purposes of comparison, the unadjusted traffic that would potentially be generated by such a project was estimated using the same trip generation data sources as used for the Nassau Hub Innovation District.

Table 25 – MFM District Development Mix

Land-Use Component	Size/Density/Units	ITE Reference
General Retail – Shopping Center	275,000 SF GLA	ITE LUC#820
Food, Dining & Entertainment	60,000 SF GLA	ITE LUC#931
Hotel	1,353 Rooms	ITE LUC#312
Office	150,000 SF GFA	ITE LUC#710
Multiplex Movie Theater	2,012 Seats	ITE LUC#444
Multi-family Residential	468 units	ITE LUC#221

Table 26 summarizes the trip generation estimates for the development mix presented in Table 25, as analyzed in the FGEIS and presented in the Findings Statement, for the MFM District Development.

Table 26 - Trip Generation – MFM District Development

Trip Generation	AM Peak Hour	PM Peak Hour	Saturday Peak Hour
Gross Unadjusted New Trips	2,496	3,383	4,624
Net New Trips	1,739	1,997	2,997

Table 26 indicates that the net new trips as included in the Findings Statement showed 1,739 trips during the weekday a.m. peak hour, 1,997 trips during the weekday p.m. peak hour and 2,997 trips during the Saturday midday peak hour. In comparison to the proposed Nassau Hub Innovation District (see Table 24), the MFM District development mix would generate a higher volume of traffic during the weekday a.m. peak hour (1,739 total trips v. 1,509 total trips) and the Saturday midday peak hour (2,997 total trips v. 2,033 total trips), while the MFM District

scenario would generate a lower volume of traffic during the p.m. peak hour (1,997 total trips v. 2,770 total trips). The TIS assesses the site with the trip generation associated with the Nassau Hub Innovation District and identifies changes to the traffic-related mitigation identified in the FGEIS and presented in the Findings Statement adopted for the MFM District.

Net Increment of Trips – Phase I to Full Build

To determine the incremental net trips based on the respective development plans for Phase I and Full Build, the net Phase I generated trips were deducted from the net Full Build generated trips. Table 27 presents the net increment in Full Build over Phase I for the Proposed Action.

Table 27 – Increment in Net Trips in Full Build over Phase I

Entering	Exiting	Entering	Exiting	Entering	Exiting
646	206	579	755	356	290
852		**1,334**		**646**	

Trip distribution and assignment was conducted using the methodology previously described. The resulting site generated traffic volumes for the weekday a.m., p.m. and Saturday midday peak hours are shown in Figures 23, 24 and 25 in the TIS, respectively.

To determine the future Full Build Condition traffic volumes, the project-generated trips were added to the 2027 traffic volumes at the key intersections. The resulting Full Build traffic volumes for the weekday a.m., p.m. and Saturday midday peak hours are shown in the TIS.

Potential Development Plan Considerations

As explained in Section 1.2, as the anticipated development under the proposed CMP is in the preliminary approval phase, it is not possible to determine specific tenancies. Upon approval of the CMP, which is utilized to represent the ultimate development of the property at this time, individual site plan applications will be submitted for each specific component and tenant in the Nassau Hub Innovation District. As discussed in greater detail in the TIS, the continued development of the site in this manner will allow for the actual volume of traffic being generated to be measured throughout the periods of ongoing construction. Once certain traffic levels are met on a case-by-case basis, off-site improvements will be warranted for the specific development of the subsequent site plan applications.

However, for purposes of comprehensive environmental review, a specific development program, which includes 500 standard apartment units, is being analyzed. As part of the residential component of this program, the Applicant is also considering the potential development of co-living units to address evolving needs and demands. A trip generation analysis was conducted using a combination of standard and co-living units (see the TIS in Appendix E). The results indicate that when the increase in traffic associated with a potential change of approximately 60%

of the standard apartments to co-living units is evaluated on an overall basis, the net unadjusted trip generation increases by 0.8% during the a.m. Peak Hour, 3.4% during the p.m. Peak Hour, and 4.6% during the Saturday Midday Peak Hour. These increases are minor and would not change the overall results of the traffic impact analysis. Furthermore, natural background traffic variation is known to be as much as 10% daily. Accordingly, whether the ultimate development includes 500 standard apartment units or whether approximately 60% of those units are changed to co-living units, it would not alter the traffic impact conclusions or required mitigation for the overall build development evaluated in the traffic impact study (contained in Attachment C of the TIS in Appendix E)..

Traffic Operations Analysis

Measuring existing traffic volumes and projecting future traffic volumes quantifies traffic flow within the study area. To assess quality of traffic flow, roadway capacity analyses were conducted with respect to the Existing, No-Build and future Build conditions. These capacity analyses provide an indication of the adequacy of the roadway facilities to serve the anticipated traffic demands.

Level of Service and Delay Criteria

The evaluation criteria used to analyze area intersections in this traffic study are based on the *Highway Capacity Manual, 6th edition* (HCM). The term "level of service" (LOS) is used to denote the different operating conditions that occur at an intersection under various traffic volume loads. It is a qualitative measure that considers a number of factors including roadway geometry, speed, travel delay and freedom to maneuver. Level of service provides an index to the operational qualities of a roadway segment or an intersection. Level of service designations range from A to F, with LOS A representing the best operating conditions and LOS F representing the worst operating conditions.

In addition to LOS, vehicle delay time (expressed in seconds per vehicle) is typically used to quantify the traffic operations at intersections. For example, a delay of 15 seconds for a particular vehicular movement or approach indicates that vehicles on the movement or approach will experience an average additional travel time of 15 seconds. It should be noted that delay time has a range of values for a given LOS letter designation. Therefore, when evaluating intersection capacity results, in addition to the LOS, vehicle delay time should also be considered.

The level of service (LOS) definitions for both the signalized and unsignalized intersections can be found in Attachment E of the TIS (see Appendix E). Additional details regarding LOS and software used for the intersection capacity analysis are included in the TIS (see Appendix E).

Build Condition Site Access and Improvements in the Vicinity of the Site

Improvements to site access points and the roadways immediately adjacent to the site are necessary in order to facilitate traffic movement at the site's access points. These improvements are not mitigation in the conventional sense in that they are proposed to provide access to the site and are not required to increase intersection capacity.

- At the intersection of Hempstead Turnpike and Glenn Curtiss Boulevard/Nassau Coliseum Main Entrance, the southbound approach will be modified to provide a fifth lane. This will accommodate a right turn lane, a shared through/right lane, a through lane, and two left turn lanes. Additionally, the westbound approach will be modified to provide an additional channelized right turn lane into the Coliseum property.
- The intersection of Charles Lindbergh Boulevard at James Doolittle Boulevard/NCC Perimeter Road will be modified to include the construction a new traffic signal. This will create a break in the divided Charles Lindbergh Boulevard roadway to permit left turns both into the Nassau Coliseum property (in the westbound direction) and the Nassau Community College (in the eastbound direction).
- Along Hempstead Turnpike (NYS Route 24) west of the signalized intersection which provides access to the Memorial Sloan Kettering facility, a new right-in/right-out only driveway will be established in the westbound direction of travel. This driveway will provide direct access to the parking structure associated with the southwest corner of the development.
- Along Earle Ovington Boulevard, between East Gate Road and Charles Lindbergh Boulevard, a new right-in/right-out only driveway will be constructed which will enter and exit directly from the westernmost proposed parking structure in the northbound direction of travel.
- Two additional exit only driveways will be provided on Charles Lindbergh Boulevard. However, these driveways will only be open to allow traffic to exit the site following the conclusion of an Nassau Coliseum event and they will not be utilized for the day to day operation of the development.

In addition to the proposed modifications to the site access points as described above, the following intersections which provide access via traffic signals will remain:

- Earle Ovington Boulevard at Hofstra East Gate Road/Site Access
- Charles Lindbergh Boulevard EB at Earle Ovington Boulevard/Site Access
- Hempstead Turnpike at MSKCC Entrance

The operation of the signals at each of these locations will be maintained in the future condition and any modifications required based on the site generated traffic associated with the development are included within Section 3.5.3.

Phase I Level of Service Analysis Results

LOS analyses were conducted for the Existing, No-Build and future Phase I Build conditions for the key study intersections. Traffic signal timing sheets were obtained from the NYSDOT and NCDPW for the signalized study intersections. Copies of these sheets are included in Attachment D. The results of the capacity analyses for the signalized intersections in the study area in Existing, 2024 No-Build and Phase I Build conditions are summarized in the TIS for the weekday a.m., p.m. and Saturday midday peak hours, respectively. A discussion of the results for each location follows each table. Conditions during an evening event period at the Nassau Coliseum are presented in the TIS.

The LOS summary tables and detailed capacity analysis worksheets are contained in Attachment E of the TIS in Appendix E. (see Appendix E). The capacity analysis results at the signalized study intersections are discussed below:

AM Peak Hour

Hempstead Turnpike at Glenn Curtiss Boulevard/Coliseum Access: This intersection operates at an overall intersection LOS C during the weekday a.m. peak hour in the Existing condition and drops to LOS D in the No-Build and Build conditions. It should be noted that the cycle length on this section of Hempstead Turnpike is 160 seconds during the a.m. peak period, with Hempstead Turnpike running at maximum recall. This results in the side roads experiencing long delays due to the long cycle length rather than capacity deficiencies associated with the roadway geometry. The overall intersection delay increases only by 4.0 seconds in the Build condition compared to the No-Build condition. Many of the individual movements experience a high delay, even in Existing Condition. To improve its projected operation, this intersection is reanalyzed with capacity and signal improvements, as discussed in the TIS (see Appendix E).

Hempstead Turnpike at Cunningham Avenue: This intersection operates at an overall intersection LOS A during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. It is seen that WB left-turn movement and NB left-turn/right-turn movement operate at LOS E/F and consistently show high delay from the Existing condition to the Build condition. This is due to the long cycle length of 160 seconds rather than a capacity deficiency. The overall intersection delay increases by 0.6 seconds from the No-Build condition to the Build condition. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset as discussed in the TIS.

Hempstead Turnpike at MSKCC Entrance: This intersection operates at an overall intersection LOS A during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. It is seen that the EB left-turn movement and SB right-turn movement operate at LOS E and consistently show high delay from the Existing condition to the Build condition. This is due to the long cycle length

of 160 seconds rather than a capacity deficiency. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 0.6 seconds from the No-Build condition to the Build condition. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset, as discussed in the TIS.

Hempstead Turnpike at Earle Ovington Boulevard/Uniondale Avenue: This intersection operates at an overall intersection LOS E during the weekday a.m. peak hour in the Existing, No-Build and Build conditions. It should be noted that the long cycle length of 160 seconds contributes to the higher delays experienced by the left-turn movements and the side streets. The overall intersection delay increases only by 4.1 seconds in the Build condition compared to the No-Build condition. Many of the individual movements experience a high delay, even in Existing Condition. To improve its projected operation, this intersection is reanalyzed with signal improvements, as discussed in the TIS.

Earle Ovington Boulevard at East Gate Road/Coliseum Access: This intersection operates at an overall intersection LOS A during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 0.1 seconds from the No-Build condition to the Build condition. There is no drop in LOS for any of the individual movements.

Earle Ovington Boulevard at Charles Lindbergh Boulevard East/Coliseum Access: This intersection operates at an overall intersection LOS B during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 0.8 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements. The operation at this intersection during p.m. peak hour necessitates mitigation. Therefore, to improve its projected operation, this intersection is reanalyzed with capacity and signal improvements (see the TIS in Appendix E).

Earle Ovington Boulevard at Charles Lindbergh Boulevard West/NCC Access: This intersection operates at an overall intersection LOS D during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 0.5 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements. The NB left-turn movement and the SB through movement operate at LOS E/F from the Existing condition to the Build condition.

Charles Lindbergh Boulevard at James Doolittle Boulevard/NCC Perimeter Road: In the Build condition, with the implementation of the new access plan, a traffic signal will be installed at this location in order to permit left turns in either the eastbound or westbound directions of travel. This will serve to accommodate traffic entering both the Nassau Hub Innovation District premises as well as the

Nassau Community College Campus. This intersection operates well at an overall intersection LOS A during the weekday a.m. peak hour.

Merrick Avenue at Charles Lindbergh Boulevard: This intersection operates at an overall intersection LOS B during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 1.5 seconds from the No-Build condition to the Build condition. The Build condition results are consistent with the No-Build condition results, with the exception of the NB left-turn movement, which shows a drop in LOS. The impact was seen to be more pronounced during p.m. peak hour. Therefore, to improve the projected operation, this intersection is reanalyzed with mitigation (see the TIS in Appendix E).

Hempstead Turnpike at Merrick Avenue: This intersection operates at an overall intersection LOS F during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 3.3 seconds from the No-Build condition to the Build condition.

Hempstead Turnpike at Sonic Driveway/Eisenhower Park Pedestrian Entrance: This intersection is primarily a pedestrian crossing and operates at an overall intersection LOS A during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and there is no change in the overall intersection delay from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Hempstead Turnpike at Coolidge Drive: This intersection operates at an overall intersection LOS B during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 0.7 seconds from the No-Build condition to the Build condition. The NB left-turn movement operates at a LOS F in the Existing condition to the Build condition. This is contributed more to the long signal cycle length of 180 seconds rather than a capacity issue.

Hempstead Turnpike at East Meadow Avenue/Park Boulevard: This intersection operates at an overall intersection LOS E during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. It should be noted that the long cycle length of 180 seconds contributes to the higher delays experienced by the left-turn movements and the side streets. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 1.5 seconds from the No-Build condition to the Build condition.

Merrick Avenue at Glenn Curtiss Boulevard/Peters Gate: This intersection operates at an overall intersection LOS A during the weekday a.m. peak hour in the Existing and No-Build conditions and crosses the threshold to drop to a LOS B in the Build condition. The drop from LOS A to LOS B is not considered significant as the overall intersection delay increases only by 0.6 seconds from the

No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Hempstead Turnpike at California Avenue/Hofstra Boulevard: This intersection operates at an overall intersection LOS C during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. It should be noted that the long cycle length of 160 seconds contributes to the higher delays experienced by the left-turn movements and the side streets. There is no increase in the overall intersection delay from the No-Build condition to the Build condition. Also, there is no drop in LOS for the individual movements. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset, as discussed in the TIS.

Hempstead Turnpike at Oak Street/Hofstra Access: This intersection operates at an overall intersection LOS C during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. It should be noted that the long cycle length of 160 seconds contributes to the higher delays experienced by the left-turn movements and the side streets. The overall intersection delay increases by 0.2 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset, as discussed in the TIS.

Front Street at Merrick Avenue: This intersection operates at an overall intersection LOS D during the weekday a.m. peak hour in the Existing and No-Build conditions and drops to LOS E in the Build condition. The overall intersection delay increases by 8.7 seconds from the No-Build condition to the Build condition. Some of the individual movements show a drop in LOS in the Build condition. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed in the TIS.

Front Street at California Avenue: This intersection operates at an overall intersection LOS B during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 0.1 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Front Street at Uniondale Avenue: This intersection operates at an overall intersection LOS D during the weekday a.m. peak hour in the Existing, No-Build and Build conditions. The overall intersection delay increases by 0.8 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Fulton Avenue at Peninsula Boulevard/Bennett Avenue: This intersection operates at an overall intersection LOS C during the weekday a.m. peak hour in the Existing, No-Build and Build conditions. The overall intersection delay increases by 0.8 seconds from the No-Build condition to the Build condition.

Fulton Avenue at Clinton Street: This intersection operates at an overall intersection LOS D during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 1.8 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Fulton Avenue at N Franklin Street: This intersection operates at an overall intersection LOS C during the weekday a.m. peak hour in Existing, No-Build and Build conditions analyzed. The overall intersection delay does not increase from the No-Build condition to the Build condition. It was found that the SB left-turn movement operates consistently at LOS E from the Existing condition to the Build condition. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed in the TIS.

Stewart Avenue at Franklin Avenue: This intersection operates at an overall intersection LOS E during the weekday a.m. peak hour in the Existing condition and drops to LOS F in the No-Build and Build conditions. The overall intersection delay does not increase from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements. However, it was found that the intersection consistently experienced high delays on some movements from the Existing condition to the Build conditions.

Old Country Road at Franklin Avenue/Mineola Boulevard: This intersection operates at an overall intersection LOS D during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 0.1 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Old Country Road at Glen Cove Road/Clinton Road: This intersection operates at an overall intersection LOS D during the weekday a.m. peak hour in Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay does not increase from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements. It was found that the intersection consistently experienced high delays on some movements from the Existing condition to the Build condition. It should be noted that this intersection operates at a long cycle length of 160 seconds during a.m. peak period, which contributes to the higher delays experienced by the left-turn movements and the side streets.

Old Country Road at Merchants Concourse/Ellison Avenue: This intersection operates at an overall intersection LOS C during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay does not increase from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Old Country Road at Merrick Avenue/Post Avenue: This intersection operates at an overall intersection LOS E during the weekday a.m. peak hour in Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 1.5 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements. It was found that the intersection consistently experienced high delays on some movements from the Existing condition to the Build condition. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed in the TIS.

Merrick Avenue at Stewart Avenue/Park Boulevard: This intersection operates at an overall intersection LOS E during the weekday a.m. peak hour in the Existing condition and drops to LOS F in the No-Build and Build conditions. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 1.1 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Stewart Avenue at Merchants Concourse/Endo Boulevard: This intersection operates at an overall intersection LOS E during the weekday a.m. peak hour in the Existing condition and drops to LOS F in the No-Build and Build conditions. The Build condition results are consistent with the No-Build condition results and the overall intersection delay does not increase from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Stewart Avenue at Quentin Roosevelt Boulevard/South Street: This intersection operates at an overall intersection LOS D during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 0.1 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Stewart Avenue at Clinton Road: This intersection operates at an overall intersection LOS E during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 1.6 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Oak Street at Commercial Avenue: This intersection operates at an overall intersection LOS B during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay does not increase from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Quentin Roosevelt Boulevard at Commercial Avenue: This intersection operates at an overall intersection LOS C during the weekday a.m. peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection

delay increases by 0.3 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

PM Peak Hour

Hempstead Turnpike at Glenn Curtiss Boulevard/Coliseum Access: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. It should be noted that the cycle length on this section of Hempstead Turnpike is 160 seconds during p.m. peak period with Hempstead Turnpike running at maximum recall. This results in the side roads experiencing a heavier delay due to the long cycle length rather than capacity deficiencies associated with the roadway geometry. The overall intersection delay increases by 11.9 seconds from the No-Build condition to the Build condition, but many of the individual movements experience a high delay, even in the Existing Condition. To improve its projected operation, this intersection is reanalyzed with capacity and signal improvements, as discussed in the TIS.

Hempstead Turnpike at Cunningham Avenue: This intersection operates at an overall intersection LOS A during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. It is seen that WB left-turn movement and NB left-turn/right-turn movement operate at LOS E/F and consistently show high delay from the Existing condition to the Build condition. This is due to the long cycle length of 160 seconds rather than a capacity deficiency. The overall intersection delay increases by 0.8 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset, as discussed in the TIS.

Hempstead Turnpike at MSKCC Entrance: This intersection operates at an overall intersection LOS A during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. It is seen that the EB left-turn movement and SB right-turn movement operate at LOS E/F and consistently show high delay from the Existing condition to the Build condition. The overall intersection delay increases by 1.2 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset, as discussed in the TIS.

Hempstead Turnpike at Earle Ovington Boulevard/Uniondale Avenue: This intersection operates at an overall intersection LOS E during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 6.6 seconds from the No-Build condition to the Build condition. Many of the individual movements experience a high delay, even

in the Existing condition. To improve its projected operation, this intersection is reanalyzed with capacity and signal improvements, as discussed in the TIS.

Earle Ovington Boulevard at East Gate Road/Coliseum Access: This intersection operates at an overall intersection LOS B during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 0.4 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Earle Ovington Boulevard at Charles Lindbergh Boulevard East/Coliseum Access: This intersection operates at an overall intersection LOS C during the weekday p.m. peak hour in the Existing and No-Build conditions and drops to LOS D in the Build conditions. The overall intersection delay increases by 4.1 seconds from the No-Build condition to the Build condition. All SB movements experience a higher delay and some drop in LOS in the Build condition. To improve its projected operation, this intersection is reanalyzed with capacity and signal improvements, as discussed in the TIS.

Earle Ovington Boulevard at Charles Lindbergh Boulevard West/NCC Access: This intersection operates at an overall intersection LOS C during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 0.9 seconds from the No-Build condition to the Build condition.

Charles Lindbergh Boulevard at James Doolittle Boulevard/NCC Perimeter Road: In the Build condition, with the implementation of the new access plan, a traffic signal will be installed at this location in order to permit left turns in either the eastbound or westbound directions of travel. This will serve to accommodate traffic entering both the Nassau Hub Innovation District premises as well as the Nassau Community College Campus. This intersection operates well at an overall intersection LOS A during the weekday p.m. peak hour.

Merrick Avenue at Charles Lindbergh Boulevard: This intersection operates at an overall intersection LOS B during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 2.5 seconds from the No-Build condition to the Build condition. It is seen that the NB left-turn movement drops to LOS D in the Build condition. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed in the TIS.

Hempstead Turnpike at Merrick Avenue: This intersection operates at an overall intersection LOS E during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 2.4 seconds from the No-Build condition to the Build condition. It can be seen that many of the individual movements consistently fail from the Existing condition to the Build conditions.

Hempstead Turnpike at Sonic Driveway/Eisenhower Park Pedestrian Entrance: This intersection operates at an overall intersection LOS A during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. There is no drop in LOS for the individual movements between the No-Build and Build conditions.

Hempstead Turnpike at Coolidge Drive: This intersection operates at an overall intersection LOS A during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 0.3 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements. The NB left-turn movement operates at LOS F from the Existing condition to the Build condition. This is more due to the long signal cycle length of 170 seconds rather than a capacity issue.

Hempstead Turnpike at East Meadow Avenue/Park Boulevard: This intersection operates at an overall intersection LOS E during the weekday p.m. peak hour in the Existing condition and drops to LIS F in the No-Build and Build conditions analyzed. It should be noted that the long cycle length of 170 seconds contributes to the higher delays experienced by the left-turn movements and the side streets. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 4.5 seconds from the No-Build condition to the Build condition. It can be seen that many of the individual movements consistently fail from the Existing condition to the Build condition.

Merrick Avenue at Glenn Curtiss Boulevard/Peters Gate: This intersection operates at an overall intersection LOS C during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 1.5 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Hempstead Turnpike at California Avenue/Hofstra Boulevard: This intersection operates at an overall intersection LOS C during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. It should be noted that the long cycle length of 160 seconds contributes to the higher delays experienced by the left-turn movements and the side streets. The overall intersection delay increases by 0.4 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset, as discussed in the TIS.

Hempstead Turnpike at Oak Street/Hofstra Access: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. It should be noted that the long cycle length of 160 seconds contributes to the higher delays experienced by the

left-turn movements and the side streets. The overall intersection delay increases by 1.7 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements, with the exception of the WB through movement. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset, as discussed in the TIS.

Front Street at Merrick Avenue: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Existing and No-Build conditions and drops to a LOS E in the Build condition. It should be noted that the long cycle length of 163 seconds contributes to the higher delays experienced by the left-turn movements and the side streets. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 6.6 seconds from the No-Build condition to the Build condition. Some of the individual movements show a drop in LOS in the Build condition. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed in the TIS.

Front Street at California Avenue: This intersection operates at an overall intersection LOS B during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 0.2 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Front Street at Uniondale Avenue: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Existing, No-Build and Build conditions. The overall intersection delay increases by 1.2 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Fulton Avenue at Peninsula Boulevard/Bennett Avenue: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 2.9 seconds from the No-Build condition to the Build condition. Some of the individual movements show a drop in LOS in the Build condition with minor increases in delay.

Fulton Avenue at Clinton Street: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 1.8 seconds from the No-Build condition to the Build condition

Fulton Avenue at N Franklin Street: This intersection operates at an overall intersection LOS C during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 1.1 seconds from the No-Build condition to the Build condition. Some of the individual movements show a drop in LOS in the Build condition. To improve its

projected operation, this intersection is reanalyzed with mitigation, as discussed in the TIS.

Stewart Avenue at Franklin Avenue: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 0.1 seconds from the No-Build condition to the Build condition. Although there is no drop in LOS for the individual movements, it was found that the intersection consistently experienced high delays on some movements from the Existing condition to the Build condition. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed in the TIS.

Old Country Road at Franklin Avenue/Mineola Boulevard: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 0.3 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Old Country Road at Glen Cove Road/Clinton Road: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Existing condition and drops to LOS E in the No-Build and Build conditions. The overall intersection delay increases by 5.2 seconds from the No-Build condition to the Build condition. Although there is no drop in LOS for the individual movements, it was found that the intersection consistently experienced high delays on some movements from the Existing condition to the Build condition. To improve its projected operation, this intersection is reanalyzed with mitigation in a subsequent section of this report and discussed further.

Old Country Road at Merchants Concourse/Ellison Avenue: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 0.1 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Old Country Road at Merrick Avenue/Post Avenue: This intersection operates at an overall intersection LOS F during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 4.0 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements, with the exception of the NB left-turn movement.

Merrick Avenue at Stewart Avenue/Park Boulevard: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Existing condition and drops to LOS E in the No-Build and Build conditions. The Build condition results are generally consistent with the No-Build condition results and the overall intersection delay increases by 3.5 seconds from the No-Build condition to the Build condition.

Stewart Avenue at Merchants Concourse/Endo Boulevard: This intersection operates at an overall intersection LOS E during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay does not increase from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Stewart Avenue at Quentin Roosevelt Boulevard/South Street: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Existing and No-Build conditions and drops to LOS E in the Build condition. The overall intersection delay increases by 1.8 seconds from the No-Build condition to the Build condition.

Stewart Avenue at Clinton Road: This intersection operates at an overall intersection LOS E during the weekday p.m. peak hour in the Existing condition and drops to LOS F in the No-Build and Build conditions. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 3.1 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements, with the exception of the WB through/right-turn movement.

Oak Street at Commercial Avenue: This intersection operates at an overall intersection LOS B during the weekday p.m. peak hour in the Existing, No-Build and Build conditions. The Build condition results are consistent with the No-Build condition results and the overall intersection delay does not increase from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Quentin Roosevelt Boulevard at Commercial Avenue: This intersection operates at an overall intersection LOS C during the weekday p.m. peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 0.3 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Saturday Midday Peak Hour

Hempstead Turnpike at Glenn Curtiss Boulevard/Coliseum Access: This intersection operates at an overall intersection LOS B during the Saturday midday peak hour in the Existing and No-Build conditions and drops to LOS C in the Build condition. It should be noted that the cycle length on this section of Hempstead Turnpike is 140 seconds during Saturday midday peak period with Hempstead Turnpike running at maximum recall. This results in the side roads experiencing a heavier delay due to the long cycle length rather than capacity deficiencies associated with the roadway geometry. The overall intersection delay increases by 13.3 seconds from the No-Build condition to the Build condition. Many of the individual movements experience a drop in LOS in the Build condition. To improve its projected operation, this intersection is reanalyzed with capacity and signal improvements, as discussed in the TIS.

Hempstead Turnpike at Cunningham Avenue: This intersection operates at an overall intersection LOS A during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. It is seen that WB left-turn movement consistently shows high delay from the Existing condition to the Build conditions. This is due to the long cycle length of 140 seconds rather than a capacity deficiency. The overall intersection delay increases by 0.2 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset, as discussed in the TIS.

Hempstead Turnpike at MSKCC Entrance: This intersection operates at an overall intersection LOS A during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. It is seen that EB left-turn movement and the SB movement consistently show high delay from the Existing condition to the Build condition. This is due to the long cycle length of 140 seconds rather than a capacity deficiency. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 1.5 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset, as discussed in the TIS.

Hempstead Turnpike at Earle Ovington Boulevard/Uniondale Avenue: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. It should be noted that the long cycle length of 140 seconds contributes to the higher delays experienced by the left-turn movements and the side streets. The overall intersection delay increases by 6.4 seconds from the No-Build condition to the Build condition. Many of the individual movements experience a drop in LOS in the Build condition. To improve its projected operation, this intersection is reanalyzed with capacity and signal improvements, as discussed in the TIS.

Earle Ovington Boulevard at East Gate Road/Coliseum Access: This intersection operates at an overall intersection LOS A during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay does not increase from the No-Build condition to the Build condition.

Earle Ovington Boulevard at Charles Lindbergh Boulevard East/Coliseum Access: This intersection operates at an overall intersection LOS A during the Saturday midday peak hour in the Existing and No-Build conditions and drops to LOS B in the Build condition. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 2.1 seconds from the No-Build condition to the Build condition. The operation at this

intersection during p.m. peak hour necessitates mitigation. Thus, this intersection is reanalyzed with capacity and signal improvements as discussed in the TIS.

Earle Ovington Boulevard at Charles Lindbergh Boulevard West/NCC Access: This intersection operates at an overall intersection LOS C during the Saturday midday peak hour in the Existing, No-Build and Build conditions. The overall intersection delay increases by 0.6 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Charles Lindbergh Boulevard at James Doolittle Boulevard/NCC Perimeter Road: In the Build condition, with the implementation of the new access plan, a traffic signal will be installed at this location in order to permit left turns in either the eastbound or westbound directions of travel. This will serve to accommodate traffic entering both the Nassau Hub Innovation District premises as well as the Nassau Community College Campus. This intersection operates at an overall intersection LOS A during the Saturday midday peak hour.

Merrick Avenue at Charles Lindbergh Boulevard: This intersection operates at an overall intersection LOS A during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 0.3 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements. The operation at this intersection during a.m. and p.m. peak hour necessitates mitigation. Thus, this intersection is reanalyzed with signal improvements, as discussed in the TIS.

Hempstead Turnpike at Merrick Avenue: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. It should be noted that the cycle length on this section of Hempstead Turnpike is 180 seconds during Saturday midday peak period with Hempstead Turnpike running at maximum recall. This results in the left-turn movements and the side roads experiencing a heavier delay due to the long cycle length rather than capacity deficiencies. The overall intersection delay increases by 2.0 seconds from the No-Build condition to the Build condition. This intersection is reanalyzed with signal improvements, as discussed in the TIS.

Hempstead Turnpike at Sonic Driveway/Eisenhower Park Pedestrian Entrance: This intersection operates at an overall intersection LOS A during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 0.3 seconds from the No-Build condition to the Build condition.

Hempstead Turnpike at Coolidge Drive: This intersection operates at an overall intersection LOS A during the Saturday midday peak hour in the Existing and No-Build conditions and LOS B during the Build condition. The overall intersection delay increases by 0.1 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Hempstead Turnpike at East Meadow Avenue/Park Boulevard: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 0.2 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Merrick Avenue at Glenn Curtiss Boulevard/Peters Gate: This intersection operates at an overall intersection LOS B during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 0.8 seconds from the No-Build condition to the Build condition. It is noted that some individual movements experience a drop in LOS. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed in the TIS.

Hempstead Turnpike at California Avenue/Hofstra Boulevard: This intersection operates at an overall intersection LOS C during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 0.2 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset, as discussed in the TIS.

Hempstead Turnpike at Oak Street/Hofstra Access: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Existing, No-Build and the Build conditions analyzed. The overall intersection delay increases by 1.4 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements. Some movements consistently experience high delays from the Existing condition to the Build condition. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal timing, as discussed in the TIS.

Front Street at Merrick Avenue: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 3.6 seconds from the No-Build condition to the Build condition. Some of the individual movements show a drop in LOS in the Build condition. To improve its projected operation, this intersection is reanalyzed with mitigation in a subsequent section of this report and discussed further.

Front Street at California Avenue: This intersection operates at an overall intersection LOS B during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by

0.2 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Front Street at Uniondale Avenue: This intersection operates at an overall intersection LOS C during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 1.2 seconds from the No-Build condition to the Build condition.

Fulton Avenue at Peninsula Boulevard/Bennett Avenue: This intersection operates at an overall intersection LOS C during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 3.7 seconds from the No-Build condition to the Build condition.

Fulton Avenue at Clinton Street: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are generally consistent with the No-Build condition results and the overall intersection delay does not change from the No-Build condition to the Build condition.

Fulton Avenue at N Franklin Street: This intersection operates at an overall intersection LOS C during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 2.5 seconds from the No-Build condition to the Build condition. It is noted that the NB and SB left-turn movements experience a drop in LOS with a 28 second increase in average vehicle delay. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed in the TIS.

Stewart Avenue at Franklin Avenue: This intersection operates at an overall intersection LOS C during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 0.2 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Old Country Road at Franklin Avenue/Mineola Boulevard: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 0.2 seconds from the No-Build condition to the Build condition.

Old Country Road at Glen Cove Road/Clinton Road: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. It should be noted that this intersection operates at a long cycle length of 160 seconds during Saturday midday peak period, which contributes to the higher delays experienced by the left-turn movements and the side streets. The overall intersection delay does not increase from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Old Country Road at Merchants Concourse/Ellison Avenue: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 0.1 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Old Country Road at Merrick Avenue/Post Avenue: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Existing condition and drops to LOS E in the No-Build and Build conditions. The overall intersection delay increases by 2.9 seconds from the No-Build condition to the Build condition. It is noted that the WB left-turn movement consistently experiences a high delay from the Existing condition to the Build condition.

Merrick Avenue at Stewart Avenue/Park Boulevard: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Existing condition and drops to LOS E in the No-Build and Build conditions. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 2.8 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Stewart Avenue at Merchants Concourse/Endo Boulevard: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay does not increase from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Stewart Avenue at Quentin Roosevelt Boulevard/South Street: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay does not increase from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Stewart Avenue at Clinton Road: This intersection operates at an overall intersection LOS E during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay increases by 2.2 seconds from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Oak Street at Commercial Avenue: This intersection operates at an overall intersection LOS A during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The Build condition results are consistent with the No-Build condition results and the overall intersection delay does not increase from the No-Build condition to the Build condition. There is no drop in LOS for the individual movements.

Quentin Roosevelt Boulevard at Commercial Avenue: This intersection operates at an overall intersection LOS B during the Saturday midday peak hour in the Existing, No-Build and Build conditions analyzed. The overall intersection delay increases by 0.4 seconds from the No-Build condition to the Build condition.

Full Build Level of Service Analysis Results

Background traffic levels were expanded to the Future Full Build year (2027) and LOS analyses were conducted for the Future 2027 and future Full Build 2027 conditions for the key study intersections. The Future 2027 condition includes Phase I of the development and background growth to 2027. Full Build 2027 includes the components of the entire development plan.

The results of the capacity analyses for the signalized intersections in the study area in Full Build conditions are summarized in the TIS for the weekday a.m., p.m. and Saturday midday peak hours, respectively. The LOS summary tables and detailed capacity analysis worksheets are contained in Attachment E of the TIS in Appendix E.

The capacity analysis results at the signalized study intersections in 2027 are discussed below:

AM Peak Hour

Hempstead Turnpike at Glenn Curtiss Boulevard/Coliseum Access: This intersection operates at an overall intersection LOS D during the weekday a.m. peak hour in the Future 2027 and Full Build conditions. There is no change in intersection LOS from the Future 2027 condition to the Full Build condition. To improve its projected operation, this intersection is reanalyzed with capacity and signal improvements, as discussed in the TIS.

Hempstead Turnpike at Cunningham Avenue: This intersection operates at an overall intersection LOS B during the weekday a.m. peak hour in the Future 2027 and Full Build conditions. It is seen that WB left-turn movement and NB left-turn/right-turn movement operate at LOS E and consistently show high delay from the Existing condition to the Full Build condition. The overall intersection delay increases by 2.2 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements, with the exception of the WB through movement, which drops to LOS B. This drop in LOS is not considered significant. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal, as discussed in the TIS.

Hempstead Turnpike at MSKCC Entrance: This intersection operates at an overall intersection LOS B during the weekday a.m. peak hour in the Future 2027 and Full Build conditions. It is seen that the EB left-turn movement and SB right-turn movement operate at LOS E and consistently show high delay from the

Existing condition to the Full Build condition. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 0.5 seconds from the Future 2027 to the Full Build condition. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset, as discussed in the TIS.

Hempstead Turnpike at Earle Ovington Boulevard/Uniondale Avenue: This intersection operates at an overall intersection LOS D during the weekday a.m. peak hour in the Future 2027 and Full Build conditions. There is no change in intersection LOS from Future 2027 condition to Full Build condition. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Therefore, this intersection is reanalyzed with changes in the signal offset and discussed further below.

Earle Ovington Boulevard at East Gate Road/Coliseum Access: This intersection operates at an overall intersection LOS A during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 1.6 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Earle Ovington Boulevard at Charles Lindbergh Boulevard East/Coliseum Access: This intersection operates at an overall intersection LOS B during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 0.9 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for any of the individual movements, with the exception of the WB left-turn movement, which drops to LOS D. To improve its projected operation, this intersection is reanalyzed with signal, as discussed in the TIS.

Earle Ovington Boulevard at Charles Lindbergh Boulevard West/NCC Access: This intersection operates at an overall intersection LOS D during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 0.5 seconds in the Full Build condition. This intersection is reanalyzed with optimized traffic signal timings to improve overall operations and is discussed below and in the TIS.

Charles Lindbergh Boulevard at James Doolittle Boulevard/NCC Perimeter Road: This intersection operates at an overall intersection LOS A during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 1.4 seconds in the Full Build condition. There is no drop in LOS for the individual movements.

Merrick Avenue at Charles Lindbergh Boulevard: This intersection operates at an overall intersection LOS B during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 1.5 seconds from the Future 2027 condition to the Full Build condition. The Full Build condition results are consistent with the Future 2027 condition results, with the exception of the SB through movement, which drops from LOS to LOS C. This drop is not considered significant.

Hempstead Turnpike at Merrick Avenue: This intersection operates at an overall intersection LOS F during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 5.0 seconds from the Future 2027 condition to the Full Build condition. Several intersection movements operate at LOS F conditions; therefore, this intersection is reanalyzed with changes in capacity as well as changes to the signal timings, as discussed in the TIS.

Hempstead Turnpike at Sonic Driveway/Eisenhower Park Pedestrian Entrance: This intersection is primarily a pedestrian crossing and operates at an overall intersection LOS A during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and there is no change in the overall intersection delay from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Hempstead Turnpike at Coolidge Drive: This intersection operates at an overall intersection LOS B during the weekday a.m. peak hour in the Future 2027 condition and overall LOS C during the Full Build condition. This intersection is part of the Hempstead Turnpike corridor (Merrick Avenue to East Meadow Avenue), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal, as discussed in the TIS.

Hempstead Turnpike at East Meadow Avenue/Park Boulevard: This intersection operates at an overall intersection LOS E during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 2.7 seconds from the Future 2027 condition to the Full Build condition. It was also found that many of the individual movements consistently operate with a high delay in both the Future 2027 and Full Build conditions. To improve its projected operation, this intersection is reanalyzed with capacity and signal improvements, as discussed in the TIS.

Merrick Avenue at Glenn Curtiss Boulevard/Peters Gate: This intersection operates at an overall intersection LOS B during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The NB left-turn movement crosses the threshold, which leads to a drop from LOS A to LOS B. This drop from LOS A to LOS B is not considered significant as the overall intersection delay increases only by 1.1 seconds from the Future 2027 condition to the Full Build

condition. With the exception of the NB left-turn movement, there is no drop in LOS for the individual movements.

Hempstead Turnpike at California Avenue/Hofstra Boulevard: This intersection operates at an overall intersection LOS C during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases only by 0.6 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Hempstead Turnpike at Oak Street/Hofstra Access: This intersection operates at an overall intersection LOS C during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 0.9 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Front Street at Merrick Avenue: This intersection operates at an overall intersection LOS E during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 16.4 seconds from the Future 2027 condition to the Full Build condition. Some individual movements show a drop in LOS in the Full Build condition. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed in the TIS.

Front Street at California Avenue: This intersection operates at an overall intersection LOS B during the weekday a.m. peak in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 0.3 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Front Street at Uniondale Avenue: This intersection operates at an overall intersection LOS D during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 1.7 seconds from the Future 2027 condition to the Build condition. There is no drop in LOS for the individual movements. The traffic signal timings were modified to provide better progression.

Fulton Avenue at Peninsula Boulevard/Bennett Avenue: This intersection operates at an overall intersection LOS C during the weekday a.m. peak hour in the Future 2027 condition and LOS D in the Full Build condition. The overall intersection delay increases by 8.5 seconds from the Future 2027 condition to the Full Build condition. The signal timing was modified and is discussed below and in the TIS.

Fulton Avenue at Clinton Street: This intersection operates at an overall intersection LOS D during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay decreases by 1.6 seconds from the Future 2027 condition to the Full Build condition. The intersection offset was modified to improve intersection operations.

Fulton Avenue at N Franklin Street: This intersection operates at an overall intersection LOS C during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 0.4 seconds from the Future 2027 condition to the Full Build condition and there is no change on intersection LOS. With the exception of the WB approach, where the delay crosses the threshold, there is no drop in LOS for the individual movements.

Stewart Avenue at Franklin Avenue: This intersection operates at an overall intersection LOS F during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. Although there is no drop in LOS for the individual movements, it was found that the intersection consistently experienced high delays on some movements. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed below and in the TIS.

Old Country Road at Franklin Avenue/Mineola Boulevard: This intersection operates at an overall intersection LOS D during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 0.1 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Old Country Road at Glen Cove Road/Clinton Road: This intersection operates at an overall intersection LOS D during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 0.1 seconds from the Future 2027 condition to the Full Build condition.

Old Country Road at Merchants Concourse/Ellison Avenue: This intersection operates at an overall intersection LOS C during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay does not increase from the Future 2027 condition to the Full Build condition. Modifying the traffic signal offset was found to improve overall operations as discussed below and in the TIS.

Old Country Road at Merrick Avenue/Post Avenue: This intersection operates at an overall intersection LOS E during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 1.7 seconds from the Future 2027 condition to the Full Build condition. Although there is no drop in LOS for the individual movements, it was found that the intersection consistently experienced high delays on some movements. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed in the TIS.

Merrick Avenue at Stewart Avenue/Park Boulevard: This intersection operates at an overall intersection LOS F during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 1.9 seconds from the Future 2027 condition to the Full Build condition. It was found that the intersection consistently experienced high delays

on some movements. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed below and in the TIS.

Stewart Avenue at Merchants Concourse/Endo Boulevard: This intersection operates at an overall intersection LOS F during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay does not increase from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements. It was found that the intersection consistently experienced high delays on some movements. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed in the TIS.

Stewart Avenue at Quentin Roosevelt Boulevard/South Street: This intersection operates at an overall intersection LOS D during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay does not increase from the Future 2027 condition to the Full Build condition. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed below and in the TIS.

Stewart Avenue at Clinton Road: This intersection operates at an overall intersection LOS E during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 1.7 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Oak Street at Commercial Avenue: This intersection operates at an overall intersection LOS B during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay does not increase from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Quentin Roosevelt Boulevard at Commercial Avenue: This intersection operates at an overall intersection LOS C during the weekday a.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 0.3 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

PM Peak Hour

Hempstead Turnpike at Glenn Curtiss Boulevard/Coliseum Access: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Future 2027 and Full Build conditions. There is no change in intersection LOS from Future 2027 condition to Full Build condition. Although the overall intersection delay increases only by 7.7 seconds in the Full Build condition, there is a drop in LOS for the WB movements. To improve its projected operation,

this intersection is reanalyzed with capacity and signal improvements, as discussed in the TIS.

Hempstead Turnpike at Cunningham Avenue: This intersection operates at an overall intersection LOS B during the weekday p.m. peak hour in the Future 2027 and Full Build conditions. It is seen that WB left-turn movement and NB movement operate at LOS E and consistently show high delay from the Existing condition to the Full Build condition. There is no drop in LOS for the individual movements, with the exception of WB through movement, which drops to LOS B. This drop in LOS is not considered significant. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset, as discussed below and in the TIS.

Hempstead Turnpike at MSKCC Entrance: This intersection operates at an overall intersection LOS B during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. It is seen that the EB left-turn movement and SB movements operate at LOS E and consistently show high delay from the Existing condition to the Full Build condition. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 1.5 seconds from the Future 2027 to the Full Build condition. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Therefore, this intersection is reanalyzed with changes in the signal offset, as discussed below and in the TIS.

Hempstead Turnpike at Earle Ovington Boulevard/Uniondale Avenue: This intersection operates at an overall intersection LOS E during the weekday p.m. peak hour in the Future 2027 and Full Build conditions. There is no change in intersection LOS from Future 2027 condition to Full Build condition. Although the overall intersection delay increases only by 6.3 seconds in the Full Build condition, some of the individual movements experience a drop in LOS and longer delays. To improve its projected operation, this intersection is reanalyzed with signal improvements, as discussed in the TIS.

Earle Ovington Boulevard at East Gate Road/Coliseum Access: This intersection operates at an overall intersection LOS B during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 1.2 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for any of the individual movements, with the exception of the NB through movement, which crosses the threshold and drops to LOS B. This drop from LOS A to LOS B is not considered significant.

Earle Ovington Boulevard at Charles Lindbergh Boulevard East/Coliseum Access: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition

results and the overall intersection delay increases by 1.6 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Earle Ovington Boulevard at Charles Lindbergh Boulevard West/NCC Access: This intersection operates at an overall intersection LOS C during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 0.9 seconds in the Full Build condition. To improve its projected operation, this intersection is reanalyzed with signal improvements, as discussed below and in the TIS.

Charles Lindbergh Boulevard at James Doolittle Boulevard/NCC Perimeter Road: This intersection operates at an overall intersection LOS A during the weekday p.m. peak hour in the Future 2027 and falls to LOS B in the Full Build condition. A change from LOS A to LOS B is not considered significant. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 3.6 seconds in the Full Build condition. There is no drop in LOS for the individual movements.

Merrick Avenue at Charles Lindbergh Boulevard: This intersection operates at an overall intersection LOS B during the weekday p.m. peak hour in the Future 2027 condition and drops to LOS C in the Full Build condition. The overall intersection delay increases by 3.2 seconds from the Future 2027 condition to the Full Build condition.

Hempstead Turnpike at Merrick Avenue: This intersection operates at an overall intersection LOS E during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 4.3 seconds from the Future 2027 condition to the Full Build condition. The Full Build results are consistent with the Future 2027 results. To improve its projected operation, this intersection is reanalyzed with capacity and signal improvements, as discussed in below and in the TIS.

Hempstead Turnpike at Sonic Driveway/Eisenhower Park Pedestrian Entrance: This intersection is primarily a pedestrian crossing and operates at an overall intersection LOS A during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by only 0.1 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Hempstead Turnpike at Coolidge Drive: This intersection operates at an overall intersection LOS A during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are generally consistent with the Future 2027 condition results and the overall intersection delay increases by 3.2 seconds from the Future 2027 condition to the Full Build condition. The NB approach operates at a LOS F from the Existing condition to the Full Build condition. This intersection is part of the Hempstead Turnpike

corridor (Merrick Avenue to East Meadow Avenue), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset, as discussed below and in the TIS.

Hempstead Turnpike at East Meadow Avenue/Park Boulevard: This intersection operates at an overall intersection LOS F during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 4.5 seconds from the Future 2027 condition to the Full Build condition. Several movements operate with a high delay in both the Future 2027 condition and the Full Build condition. To improve its projected operation, this intersection is reanalyzed with capacity and signal improvements, as discussed below and in the TIS.

Merrick Avenue at Glenn Curtiss Boulevard/Peters Gate: This intersection operates at an overall intersection LOS C during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases only by 2.6 seconds, with some individual movements dropping LOS. To improve its projected operation, this intersection is reanalyzed with capacity and signal improvements, as discussed in the TIS.

Hempstead Turnpike at California Avenue/Hofstra Boulevard: This intersection operates at an overall intersection LOS C during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay does not increase from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset, as discussed in the TIS.

Hempstead Turnpike at Oak Street/Hofstra Access: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Future 2027 and drops to LOS E in the Full Build condition. The overall intersection delay increases by 9.5 seconds from the Future condition to the Full-Build condition. There is no drop in LOS for the individual movements, with the exception of the WB through movement. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset/phase splits, as discussed below and in the TIS.

Front Street at Merrick Avenue: This intersection operates at an overall intersection LOS E during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 15.0 seconds from the Future 2027 condition to the Full Build condition. Some of the individual movements show a drop in LOS in the Full Build condition. To improve

its projected operation, this intersection is reanalyzed with mitigation, as discussed in the TIS.

Front Street at California Avenue: This intersection operates at an overall intersection LOS B during the weekday p.m. peak in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 0.2 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Front Street at Uniondale Avenue: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 2.1 seconds from the Future 2027 condition to the Full Build condition. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed below and in the TIS.

Fulton Avenue at Peninsula Boulevard/Bennett Avenue: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Future 2027 and Full Build conditions. Although the overall intersection delay increases only by 3.0 seconds from the Future 2027 condition to the Full Build condition, some individual movements drop in LOS. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed below and in the TIS.

Fulton Avenue at Clinton Street: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. Although the overall intersection delay increases by 2.5 seconds from the Future 2027 condition to the Full Build condition, there is drop in the LOS for SB left-turn movement from D to E. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed below and in the TIS.

Fulton Avenue at N Franklin Street: This intersection operates at an overall intersection LOS C during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. Although the overall intersection delay increases by 2.7 seconds from the Future 2027 condition to the Full Build condition, there is a drop in LOS for EB left-turn movement from C to D. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed in the TIS.

Stewart Avenue at Franklin Avenue: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 0.3 seconds from the Future 2027 condition to the Full Build condition.

Old Country Road at Franklin Avenue/Mineola Boulevard: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay

increases by 0.4 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Old Country Road at Glen Cove Road/Clinton Road: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 0.1 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Old Country Road at Merchants Concourse/Ellison Avenue: This intersection operates at an overall intersection LOS D during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 0.1 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements. The timing at this intersection was changed to promote the progression between Merchants Concourse and Post Avenue/Merrick Avenue. This will result in small changes in delay in the Full Build Mitigation condition.

Old Country Road at Merrick Avenue/Post Avenue: This intersection operates at an overall intersection LOS F during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 4.8 seconds from the Future 2027 condition to the Full Build condition. Although there is no drop in LOS for the individual movements, it was found that the intersection consistently experienced high delays on some movements. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed in the TIS.

Merrick Avenue at Stewart Avenue/Park Boulevard: This intersection operates at an overall intersection LOS E during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 5.0 seconds from the Future 2027 condition to the Full Build condition. It was found that the intersection consistently experienced high delays for some movements. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed below and in the TIS.

Stewart Avenue at Merchants Concourse/Endo Boulevard: This intersection operates at an overall intersection LOS E during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay does not increase from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Stewart Avenue at Quentin Roosevelt Boulevard/South Street: This intersection operates at an overall intersection LOS E during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 2.4 seconds from the Future 2027

condition to the Full Build condition. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed below and in the TIS.

Stewart Avenue at Clinton Road: This intersection operates at an overall intersection LOS F during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 3.0 seconds from the Future condition to the Build condition. There is no drop in LOS for the individual movements.

Oak Street at Commercial Avenue: This intersection operates at an overall intersection LOS B during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay does not increase from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Quentin Roosevelt Boulevard at Commercial Avenue: This intersection operates at an overall intersection LOS C during the weekday p.m. peak hour in the Future 2027 and Full Build conditions analyzed. Although the overall intersection delay increases by 0.3 seconds from the Future 2027 condition to the Full Build condition, there is a drop in LOS for the EB left turn/through movement, which increases by 0.3 seconds to cross the threshold to LOS C. This change is not considered significant.

Saturday Midday Peak Hour

Hempstead Turnpike at Glenn Curtiss Boulevard/Coliseum Access: This intersection operates at an overall intersection LOS C during the Saturday midday peak hour in the Future 2027 and Full Build conditions. There is no change in intersection LOS from Future 2027 condition to Full Build condition. Although the overall intersection delay increases only by 4.0 seconds from the Future 2027 condition to the Full Build condition, the WB through movement and NB left-turn movement drop in LOS. To improve its projected operation, this intersection is reanalyzed with capacity and signal improvement, as discussed below and in the TIS.

Hempstead Turnpike at Cunningham Avenue: This intersection operates at an overall intersection LOS A during the Saturday midday peak hour in the Future 2027 and Full Build conditions. It is seen that WB left-turn movement operates at LOS E and consistently shows high delay from the Existing condition to the Full Build condition. The overall intersection delay increases by 0.2 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset, as discussed below and in the TIS.

Hempstead Turnpike at MSKCC Entrance: This intersection operates at an overall intersection LOS A during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. It is seen that the EB left-turn movement and SB movements operate at LOS E and consistently show high delay from the Existing condition to the Full Build condition. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 0.6 seconds from the Future 2027 to the Full Build condition. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset, as discussed in the TIS.

Hempstead Turnpike at Earle Ovington Boulevard/Uniondale Avenue: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Future 2027 and Full Build conditions. Although the overall intersection delay increases only by 2.6 seconds from the Future 2027 condition to the Full Build condition, the NB movements drop to LOS F. To improve its projected operation, this intersection is reanalyzed with signal improvements, as discussed below and in the TIS.

Earle Ovington Boulevard at East Gate Road/Coliseum Access: This intersection operates at an overall intersection LOS A during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay does not increase from the Future 2027 condition to the Full Build condition. There is no drop in LOS for any of the individual movements.

Earle Ovington Boulevard at Charles Lindbergh Boulevard East/Coliseum Access: This intersection operates at an overall intersection LOS B during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 1.4 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Earle Ovington Boulevard at Charles Lindbergh Boulevard West/NCC Access: This intersection operates at an overall intersection LOS C during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 0.3 seconds in the Full Build condition. There is no drop in LOS for the individual movements.

Charles Lindbergh Boulevard at James Doolittle Boulevard/NCC Perimeter Road: This intersection operates at an overall intersection LOS A during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 1.4 seconds in the Full Build condition. There is no drop in LOS for the individual movements.

Merrick Avenue at Charles Lindbergh Boulevard: This intersection operates at an overall intersection LOS B during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 0.4 seconds from the Future 2027 condition to the Full Build condition. The Full Build condition results are consistent with the Future 2027 condition results with no drop in LOS for individual movements.

Hempstead Turnpike at Merrick Avenue: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 3.2 seconds from the Future 2027 condition to the Full Build condition. The Full Build results are consistent with the Future 2027 results and there is no drop in LOS for any of the individual movements, with the exception of the eastbound right-turn movement. This intersection is part of the Hempstead Turnpike corridor (Merrick Avenue to East Meadow Avenue), that is being mitigated to promote signal progression and the traffic flow. It also requires mitigation in the a.m. and p.m. peak hours. Hence, this intersection is reanalyzed with capacity and signal timing, as discussed below and in the TIS.

Hempstead Turnpike at Sonic Driveway/Eisenhower Park Pedestrian Entrance: This intersection is primarily a pedestrian crossing and operates at an overall intersection LOS A during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 0.8 seconds from the Future 2027 condition to the Full Build condition. This intersection is part of the Hempstead Turnpike corridor (Merrick Avenue to East Meadow Avenue), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset, as discussed in the TIS.

Hempstead Turnpike at Coolidge Drive: This intersection operates at an overall intersection LOS B during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future condition results and there is no increase in overall intersection delay from the Future 2027 condition to the Full Build condition. This intersection is part of the Hempstead Turnpike corridor (Merrick Avenue to East Meadow Avenue), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset, as discussed below and in the TIS.

Hempstead Turnpike at East Meadow Avenue/Park Boulevard: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delays do not increases from the Future 2027 condition to the Full Build condition. The a.m. and p.m. operations at this intersection necessitate capacity and signal improvements. Hence, the intersection was reanalyzed with mitigation, as discussed in the TIS.

Merrick Avenue at Glenn Curtiss Boulevard/Peters Gate: This intersection operates at an overall intersection LOS B during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The SB left-turn movement crosses the threshold and drops to LOS C in Full Build condition. The drop from LOS B to LOS C is not considered significant as the overall intersection delay increases only by 0.7 seconds from the Future 2027 condition to the Full Build condition. With the exception of the SB left-turn movement, there is no drop in LOS for the individual movements.

Hempstead Turnpike at California Avenue/Hofstra Boulevard: This intersection operates at an overall intersection LOS C during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay does not increase from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal offset, as discussed in the TIS.

Hempstead Turnpike at Oak Street/Hofstra Access: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 0.9 seconds from the Future condition to the Build condition. There is no drop in LOS for the individual movements. This intersection is part of the Hempstead Turnpike corridor (Glenn Curtiss Boulevard to Oak Street), that is being mitigated to promote signal progression and the traffic flow. Hence, this intersection is reanalyzed with changes in the signal, as discussed in the TIS.

Front Street at Merrick Avenue: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 2.3 seconds from the Future 2027 condition to the Full Build condition. Some individual movements show a drop in LOS in the Full Build condition. The a.m. and p.m. operations at this intersection necessitate capacity and signal improvements. Hence, the intersection was reanalyzed with mitigation, as discussed in the TIS.

Front Street at California Avenue: This intersection operates at an overall intersection LOS B during the Saturday midday peak in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 0.1 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Front Street at Uniondale Avenue: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 0.6 seconds from the Future 2027 condition to the Full Build condition. There is no

drop in LOS for the individual movements; however, the traffic signal timings were modified to provide better progression.

Fulton Avenue at Peninsula Boulevard/Bennett Avenue: This intersection operates at an overall intersection LOS C during the Saturday midday peak hour in the Future 2027 and Full Build conditions. The overall intersection delay increases by 0.2 seconds from the Future 2027 condition to the Full Build condition. To improve its projected operation, this intersection is reanalyzed with signal improvements, as discussed below and in the TIS.

Fulton Avenue at Clinton Street: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 0.2 seconds from the Future 2027 condition to the Full Build condition. To improve its projected operation, this intersection is reanalyzed with signal improvements, as discussed below and in the TIS.

Fulton Avenue at N Franklin Street: This intersection operates at an overall intersection LOS C during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 0.7 seconds from the Future 2027 condition to the Full Build condition. To improve its projected operation, this intersection is reanalyzed with signal improvements, as discussed below and in the TIS.

Stewart Avenue at Franklin Avenue: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 0.3 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements. The Full Build condition results are consistent with the Future 2027 results.

Old Country Road at Franklin Avenue/Mineola Boulevard: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 0.1 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Old Country Road at Glen Cove Road/Clinton Road: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay does not increase from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Old Country Road at Merchants Concourse/Ellison Avenue: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay does not increase from the Future condition to the Build condition. There is no drop in LOS for the individual movements. The offset at this intersection was changed to promote the progression between Merchants Concourse and Post

Avenue/Merrick Avenue. This will result in small changes in delay in the Full Build Mitigation condition.

Old Country Road at Merrick Avenue/Post Avenue: This intersection operates at an overall intersection LOS E during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 0.8 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements. It was found that the intersection consistently experienced high delays for some movements. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed in the TIS.

Merrick Avenue at Stewart Avenue/Park Boulevard: This intersection operates at an overall intersection LOS E during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 2.1 seconds from the Future 2027 condition to the Full Build condition. It was found that the intersection consistently experienced high delays for some movements. To improve its projected operation, this intersection is reanalyzed with mitigation, as discussed below and in the TIS.

Stewart Avenue at Merchants Concourse/Endo Boulevard: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 0.1 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Stewart Avenue at Quentin Roosevelt Boulevard/South Street: This intersection operates at an overall intersection LOS D during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay does not increase from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Stewart Avenue at Clinton Road: This intersection operates at an overall intersection LOS F during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay increases by 1.1 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Oak Street at Commercial Avenue: This intersection operates at an overall intersection LOS A during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The Full Build condition results are consistent with the Future 2027 condition results and the overall intersection delay does not increase from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

Quentin Roosevelt Boulevard at Commercial Avenue: This intersection operates at an overall intersection LOS B during the Saturday midday peak hour in the Future 2027 and Full Build conditions analyzed. The overall intersection delay increases by 0.2 seconds from the Future 2027 condition to the Full Build condition. There is no drop in LOS for the individual movements.

As part of the analysis, methods of improving poor operating conditions of those intersections identified above during all time periods and mitigation measures are evaluated in Section 3.5.3.

Event Period Analysis

The anticipated development under the proposed CMP includes the maintenance of the existing Nassau Coliseum. As a result, on nights when a significant event is to take place at the facility, there is an additional "Event Period" peak hour which warrants analysis. The event period was analyzed in detail to determine the impact of the site generated traffic on the period when there is an event scheduled at the venue. As mentioned in the section regarding Existing Traffic Volume Data, the event period counts were collected at these same locations on Monday April 1, 2019 from 5:00 p.m. to 11:00 p.m. At this time, there was an Islanders game versus the Toronto Maple Leafs scheduled at the Nassau Coliseum, which started at 7:00 p.m. The phase two event period counts were collected at these same locations on Thursday October 24, 2019 from 5:00 p.m. to 8:00 p.m. At this time, there was an Islanders game versus Arizona Coyotes scheduled at the Nassau Coliseum, which started at 7:00 p.m.

Review of information provided by the operator of the venue showed that hockey games were more well attended than concerts or other live events; therefore, the background conditions analyzed for the event periods reflect the highest level of traffic which was present at those times.

The New York Islanders will no longer play at the Nassau Coliseum since the team is moving to the new UBS Arena at Belmont Park for the 2021-2022 season, and beyond. The concerts and other live events generate less traffic and parking so the background conditions analyzed for the Event Arrival are conservative. The sporting events that will be hosted at the arena will be limited to contests that draw significantly smaller crowds, such as lacrosse and minor league hockey. Any mitigation resulting from the Event analysis summarized below would accommodate the traffic conditions associated with concerts or other live events.

The event period arrival time was determined to be 6:00 p.m. to 7:00 p.m. Thus, the volumes at the study intersections for the hour 6:00 p.m. to 7:00 p.m. were determined and utilized for the event period arrivals. It should be noted that signal timing day plan-time of day pattern for p.m. peak hour ended at 7:00 p.m. at some intersection and at 7:30 p.m. at the remaining intersections. So essentially the signal timing used for weekend p.m. peak hour analysis and for event period analysis is the same, only the traffic volumes differ. As a result, the methodology followed for the

weekend p.m. peak hour analysis and for event period analysis including the recommended mitigation plans are exactly the same.

No analysis was prepared for the event dismissal periods, when traffic will be exiting the site after a concert or other gathering ends. Since an event such as that contemplated in this study will typically end at approximately 11:00 p.m., the level of background traffic on the roadway network will be significantly reduced. Accordingly, while the traffic exiting the premises will be significant, there will be minimal impact upon the operation of the roadway network.

The results of the Event Period LOS analysis for Phase I and Full Build, as well as the proposed mitigation for each, are included in Section 5 of the TIS in Appendix E,. However, the Event Period is not a controlling factor with respect to the overall impacts or the proposed mitigation measures.

Merge, Diverge, and Weave Analysis

Site-generated traffic from the Nassau Hub Innovation District will utilize the Meadowbrook Parkway immediately east of the anticipated development. In order to evaluate the potential impact of the site-generated traffic on the various ramp merge and diverge points on Hempstead Turnpike, an analysis was performed using ATR data that was collected in 2019. Highway Capacity Software (HCS) was used to perform these analyses. The complete merge, diverge and weave analysis is presented in the TIS.

The Phase I Build 2024 Condition results at all locations except one, show results consistent with the Future Condition. This location is the merge section from southbound Meadowbrook Parkway to westbound Hempstead Turnpike. This location shows a degradation from LOS B to C with only minor increase in delay during the AM and PM Peak periods, when compared to the No Build 2024 condition. It should be noted that the increase in density is minimal. During the Saturday analysis this location maintained No Build 2024 LOS.

A review of the Full Build 2027 Condition results at all locations except two, show results consistent with the Future Condition. These locations are:

- Merge section from northbound Meadowbrook to westbound Hempstead Turnpike.
- Merge section from southbound Meadowbrook to eastbound Hempstead Turnpike.

These locations show a degradation from LOS B to C with only minor increase in delay during the AM Peak period only, when compared to the 2027 with Phase I Condition. It should be noted that the increase in density at both locations is minimal. During the PM and Saturday analysis periods these locations maintain 2027 with Phase I LOS. Due to the minimal increase in density experienced at the analyzed merge and diverge locations, no mitigation is required or proposed.

Site Parking

The site of the proposed Nassau Hub Innovation District is currently home to the Nassau Coliseum and a Memorial Sloane Kettering Cancer Center. Each of these uses operating on the site has associated with it parking demands that must be accommodated with the development of the Innovation Hub. The portion of the site not occupied by the cancer center includes 5,800± marked parking stalls which serve the arena's employees, visitors and patrons during events. The Memorial Sloane Kettering Cancer Center is located on an "out parcel" at the southern boundary of the site and contains 450 parking stalls; the majority of which are located within a parking garage. As part of the lease arrangement between the developer of the anticipated development, the County of Nassau and Memorial Sloane Kettering, the development would have access to parking on the cancer center site after business hours.

Hempstead Town Code parking requirements are included in the TIS. Based on the Town Code, the development program requires that 13,488 parking stalls be provided. It is noted that the MSKCC, situated on an out-parcel, is not included here. The proposed CMP includes 6,750 parking stalls as follows:

- 744 stalls at surface level,
- 181 stalls 'on-street' on the internal roadway network,
- 788 stalls on-grade, within the parking structures,
- 2,849 structured stalls above grade and 2,188 structured stalls below grade.

These 6,750 total parking spaces represents a short fall by code of 6,738 stalls or about half. However, as a mixed-use site, an interrelationship will occur between the uses resulting in reductions in the overall parking demand. In particular, two relationships were examined for the purposes of estimating the parking demand for the anticipated development: shared parking and internal capture. These two concepts are discussed in detail in the TIS (see Appendix E).

In addition to the Shared Parking and Internal Capture components, other site-specific items were assessed to reduce the overall parking demand at any one time. These considerations include transit mode and reserved parking. See the TIS for additional details.

Details of the Shared Parking analysis in the form of print-outs from the Urban Land Institute and ITE Manuals are included in Attachment F of the TIS. This includes sheets which present a summary of the peak demands as well as the projected demand for each use for each hour of the day on a monthly basis.

Based on the considerations and the variation in activity for different uses within the Nassau Hub Innovation District as set forth in the TIS, the Shared Parking analysis demonstrates that the site will have more than adequate parking capacity to support the mix of uses on the site, with stalls convenient to each of these anticipated uses, particularly in the absence of the New York Islanders hockey team from the Nassau Coliseum. The entire anticipated parking demand can be accommodated on-site.

Site Access and Circulation

The anticipated development will include the modification of several of the existing site driveways along with the addition of several new access points in order to help minimize the impacts to the surrounding roadway network. However, because the Nassau Hub Innovation District will be a true mixed-use development, each site access driveway will be shared in nature, allowing for internal circulation to prevent vehicles from entering and exiting the local street network unnecessarily.

In order to help assure the appropriate on-site circulation of traffic, the internal roadway network for the anticipated development will be installed with the appropriate guide signs to direct vehicles to their ultimate destination as efficiently as possible. Additionally, variable messaging signs and smart parking solutions (such as the availability of spaces within each parking garage) are also to be implemented. Furthermore, when events at the existing Nassau Coliseum are scheduled, management plans will be put into effect to efficiently direct the influx of traffic for those purposes to the appropriate parking areas. These measures may include lane closures or re-routing, in order to increase the on-site capacity in a single direction, as necessary.

The property will be accessed by seven separate driveways, three each on Hempstead Turnpike and Earle Ovington Boulevard and one at the proposed traffic signal at Charles Lindbergh Boulevard and James Doolittle Boulevard/Nassau Community College Roadway. Additionally, two exit-only driveways are proposed from the parking areas which encompass Parking Garage 2 and 3, but these will only be opened to act as a relief valve for exiting traffic following an event. Each of these locations will be designed to meet or exceed engineering sight distance standards, as applicable.

The internal roadway layout is depicted on the CMP for the development. Each of the roadways depicted fall under a design category meant to comply with the public rights-of-way, which were approved in the previous design iterations of the CMP. These categories included the wide primary roadways, the narrower secondary roadways, and the shared roadways. Depictions of the design characteristics of each are included in Section 3.4.2 of the Expanded EA.

This layout includes two primary roads; one in the north-south direction (East Drive) on the east side of the existing arena and one in the east-west direction (North Drive) on the north side of the existing arena. One secondary roadway in the north-south direction (West Drive) and one secondary roadway in the east-west direction (South Drive) are also proposed and terminate at the primary drives. Additionally, there is also a "shared roadway" spanning between East and West Drive located between the existing arena and proposed residential buildings. Based on the current analyses, it is not intended to utilize internal traffic signals to accommodate on-site cross traffic. Stop controls at each significant intersection will instead be implemented.

Public Transportation

A description of public transportation, including the Long Island Rail Road (LIRR) and the Nassau Inter-County Express (NICE) bus system is included in the TIS. Rail lines and stations near the project site include the Westbury, Carle Place, and Mineola Stations on the Port Jefferson Branch; the East Williston Station on the Oyster Bay Branch; the Hempstead, Country Life Press, and Garden City stations on the Hempstead Branch; and the West Hempstead and Hempstead Gardens Stations on the West Hempstead Branch. NICE Bus routes near the project site include 15, 16, 22, 23, 24, 27, 35, 40/41, 43, and 60. Additionally, there are multiple NICE bus Hubs including the Mineola Intermodal Center, the Roosevelt Field Hub, and the Mineola Courthouse providing connectivity to multiple routes throughout Nassau County.

Additionally, the TIS discusses the incorporation of BRT into Nassau County transit network and its implications for the Nassau Hub Innovation District (see Appendix E).

The TIS took conservative credits to account for several factors which will affect external trip generation associated with the Nassau Hub Innovation District, including for the use of public transportation. In order to be consistent with the studies done in support of the MFM District and to present a conservative evaluation, this study assumed only a five percent reduction in peak hour traffic to account for the use of public transportation and the proposed BRT system. It is likely that the actual use of public transportation will be higher, resulting in fewer vehicle trips from the site on the adjacent roadway system. It is noted that this assumption was done solely for the purposes of this study and ridership estimates for the proposed BRT system were developed in significantly more detail, for a different purpose and may be significantly higher. See the TIS in Appendix E for additional details regarding public transportation.

Pedestrian and Bicyclist Accommodations

The Nassau Hub Innovation District will contain numerous on-site uses and is designed to provide residents, employees and visitors the opportunity to visit multiple destinations in a single trip without using a motor vehicle. To support this, the CMP includes a robust network of pedestrian and bicycle accommodations which will allow persons to move about the site conveniently by providing a safe and efficient pedestrian and bicycle network.

As depicted on the CMP, the Innovation District will provide wide sidewalks with pedestrian amenities. The site includes numerous dedicated pedestrian road crossings at key crossing points which will be well designed, constructed out of contrasting visible materials and signed to be conspicuous to other modes of travel within the site. Dedicated marked and high visibility pedestrian crossings will be provided at all intersections as well as at mid-block locations where pedestrians are anticipated to cross roadways.

The Nassau Hub Innovation District internal network provides for connections to the existing bicycle paths around the site on Hempstead Turnpike, Charles Lindbergh Boulevard and Earle Ovington Boulevard. A shared use path is to be provided along the east side of East Drive providing a travel path for bicyclists and pedestrians through the site with connections at the north and south ends to external facilities . Elsewhere on the site, bicyclists will be accommodated through shared use lanes with appropriate pavement markings and signing.

Walkability

As a mixed-use community, the Nassau Innovation Hub District will experience a notable level of internal pedestrian activity. As a result, it is the intention of the applicant to create a compact walkable community which will serve to reduce the use of motor vehicles within the site.

The walkability of the proposed development was determined based on a review of the distance between the site and the external study area and available sources. An online article from *Design Concepts Landscape Architects* titled *Walkability Standards: Test of Common Assumptions* concludes a range of approximately ⅛ of a mile to ½ a mile, coinciding with a 10-minute walk time, would be acceptable. Research published by the *National Institutes of Health* titled *Walking Distance by Trip Purpose and Population Subgroups* indicates that ¼ of a mile is often used as an acceptable walking distance. Additionally, The Lighthouse DEIS, which involved a prior mixed-use development application for the Subject Property, stated that "one quarter mile is an often-quoted rule of thumb for a comfortable walking distance". Based on the above sources, the comfortable walking distance for the Nassau Hub Innovation District was established to be ¼ mile.

On-Site Multi-Modal Travel

The majority of the Nassau Hub Innovation District is located within the ¼ mile walking distance radius which would allow residents, employees, and visitors to access the majority of the site by foot.

The CMP incorporates Complete Streets elements into the project design. This includes connected sidewalks, a dedicated Bike/Shared Mobility Path, and a system of shared bicycle/vehicle lanes, while making efforts to calm vehicular traffic on the site. Furthermore, the design of the streetscapes will incorporate features such as green infrastructure for shade and shelter, which is intended to encourage use of green space. The internal circulation is also designed to allow for temporary street closures during events without restricting vehicular access to parking garages. These features combined with the service uses and employment opportunities creates a scenario where individuals may access a multitude of uses without the need to utilize a passenger vehicle.

See Appendix E for additional information regarding specific pedestrian, bicycle, bus and BRT infrastructure proposed throughout the site. While bus BRT stops are shown on the CMP, ultimate locations of the bus/BRT stops would be coordinated

with Nassau County and other relevant agencies. This feature would serve to decrease the reliance of individuals on passenger vehicles by providing direct access to alternative methods of accessing the site.

Off-Site Multi-Modal Travel

The layout of the CMP was developed to provide a walkable community within the limits of the site, and there will likely be some increased level of pedestrian activity between the areas immediately surrounding the Hub Innovation District and the site. However, due to its location and the distances to the surrounding land uses, increases in pedestrian activity to and from the site are expected to be minor. Off-site locations within the ¼-mile walking distance include portions of the Hofstra University Campus to the west which do not include the dormitory areas, parts of the Nassau Community College campus to the north, which does not include any dormitories, the Omni Office Building to the northwest, and the RXR Plaza office building to the southeast. Additionally, there is a portion of the residential community and some limited commercial properties on the south side of Hempstead Turnpike.

Though the opportunities for increases in pedestrian traffic to and from the proposed development are limited, there is a pedestrian network in the areas immediately surrounding the site in the form of pedestrian accommodations at signalized intersections around the site. In addition, along each of the roadways surrounding the site -- Hempstead Turnpike, Charles Lindbergh Boulevard, and Earle Ovington Boulevard, there are shared pedestrian and bicycle paths. The paths eventually connect to the Mitchel Field pedestrian path and bikeway, which provides greater connectivity for pedestrians and bicyclists throughout the area as a whole.

At the major intersections in the vicinity of the Nassau Coliseum, pedestrian accommodations for crossing are provided in the form of marked crosswalks and dedicated pedestrian signal equipment. Details regarding these pedestrian accommodations.

The proposed development will include upgrades to the existing surrounding pedestrian equipment to meet current standards, consistent with the NYSDOT and NCDPW. This will include ADA-compliant pedestrian ramps, audible pedestrian signals with the most current visual displays and pushbuttons with countdown timers.

As discussed previously, the CMP includes three pedestrian bridges at strategic locations to enhance the connectivity to off-site areas – one across Hempstead Turnpike at Glenn Curtiss Boulevard, with direct access to RXR Plaza and two across Earle Ovington Boulevard to connect to Hofstra University and to The Omni.

Mass transit options are available within the ¼ mile walkable radius, particularly a number of NICE bus stops. However, the site does not provide direct access to a train station within the ¼-mile walkable radius.

Transportation and Parking Innovation

As a modern development, numerous design considerations are to be contemplated for the Nassau Innovation Hub District development in order to promote smarter development. This will include numerous measures including, but not limited to, the following:

- Parking Wayfinding – Due to the Mixed-Use nature of the development, vehicles may park in one of many garages to access multiple uses. As a result, providing real time direction as to where parking is available serves to reduce congestion and funnel vehicles to the most desirable locations more efficiently.
- Vehicle Sharing – In order to promote reductions to the total number of vehicles in circulation, ride sharing programs may be put in place for members to utilize common vehicles. This reduces the need for personal vehicles and thereby may serve to reduce the parking demand on-site.
- Uber and Lyft – As depicted on the Conceptual Master Plan, areas will be designed to accommodate Uber and Lyft pick-up and drop off activities. This will encourage riding sharing to and from the property and will serve to reduce the number of vehicles parked.
- Micro-transit Mobility – As the site will include multiple uses in varying areas, divided by an interior roadway system, it is intended to provide small shuttle cars which will transport people throughout the development to access multiple uses. This will serve to reduce the level of interior traffic and on-site congestion.

While these items are to be implemented, among other improvements, it should be noted that no adjustments or reductions were applied to the traffic or parking generation characteristics included within this study. As a result, a more conservative approach was taken in preparing these analyses.

3.5.3 Proposed Mitigation

Phase I Mitigation

Based on the detailed evaluation of potential impacts of the proposed Nassau Hub Innovation District Phase I Development Plan, most of the study intersections were found to accommodate the additional site traffic with only changes in the signal phasing/timing/splits/offsets. However, there are four intersections where capacity expansion was warranted.

- Hempstead Turnpike & Glenn Curtiss Blvd/Coliseum Main Entrance
- Hempstead Turnpike & Earle Ovington Blvd / Uniondale Avenue
- Earle Ovington Blvd & Charles Lindbergh Blvd EB/Site Access.
-

Traffic signal phasing/timing/splits/offset changes are warranted at the following:

- Hempstead Turnpike & Cunningham Avenue / MSKCC Entrance (all peak hours)
- Merrick Avenue & Charles Lindbergh Blvd (all peak hours)
- Hempstead Turnpike & Merrick Avenue (Saturday peak hour)
- Merrick Avenue & Glenn Curtiss Blvd/Peters Gate (Saturday peak hour)
- Hempstead Turnpike & California Avenue/Hofstra Blvd (all peak hours)
- Hempstead Turnpike & Oak Street/Hofstra (all peak hours)
- Front Street & Merrick Avenue (all peak hours)
- Fulton Avenue & Peninsula Blvd/Bennett Avenue (Saturday peak hour)
- Fulton Avenue & Clinton Street (Saturday peak hour)
- Fulton Avenue & N. Franklin Street (all peak hours)
- Stewart Avenue & Franklin Avenue (PM peak hour)
- Old Country Road & Glen Cove Road / Clinton Road (PM peak hour)
- Old Country Road & Merrick Avenue / Post Avenue (AM and Saturday peak hours).

Table 28 and Table 29, below list the developed recommended mitigation. Where an impact was found, changes to signal timing and operations were considered first. Where this was not successful or appropriate, changes to intersection layout and widenings were considered that are consistent with mitigation proposed in the previous MFM District Alternative Traffic Study. In areas where that mitigation was not appropriate, additional measures were considered.

Table 28 - Proposed Phase I Capacity Improvements...1 of 2

Location	Capacity		Signal Timing Changes	
	Existing Conditions	Proposed	Existing Conditions	Proposed
Hempstead Turnpike & Glenn Curtiss Blvd/Coliseum Main Entrance	EB- 2 left-turn lanes, 3 through lanes & 1 channelized right-turn lane WB- 2 left-turn lanes, 3 through lanes & 2 right-turn lanes channelized into the site NB- 1 left-turn lane, 1 shared left-turn/through lane, 1 shared through/right-turn lane & 1 right-turn lane SB- 1 left-turn lane, 1 shared left-turn/through lane, 1 shared through/right-turn lane & 1 right-turn lane	EB – Add 4th through lane (2U/L, 4T, 1R) WB – No Change NB – Add additional exclusive left-turn lane with 450' storage. Convert 1 shared left-turn/through lane to exclusive through lane, convert shared through/right-turn lane to exclusive right-turn lane (2L, 1T, 2R) SB – Convert shared through/right-turn lane to exclusive through lane (Master plan – 2 L, 1T, 1T/R, 1R – now change to 2L, 2T, 1R)	State System Intersection AM Cycle – 160 seconds PM Cycle – 160 seconds Sat Cycle – 140 seconds N/S runs on split phase	No Change in cycle length Remove N/S Split phase – The N/S left-turns run together, and N/S throughs run together Add NBR overlap with WBL Add SBR overlap with EBL Optimize phase splits to correlate to future volumes during all time periods Corridor offsets changed to promote signal progression & platoon flow during all time periods
Hempstead Turnpike & Earle Ovington Blvd / Uniondale Avenue	EB- 2 left-turn lanes, 3 through lanes & 1 right-turn lane WB- 2 left-turn lanes, 3 through lanes & 1 channelized right-turn lanes NB- 1 left-turn lane, 1 shared left-turn/through lane & 1 shared through/right-turn lane SB- 1 left-turn lane, 1 shared left-turn/through lane, 1 shared through/right-turn lane & 1 right-turn lane	EB – No Change WB – No Change NB – No Change SB – Add additional exclusive left-turn lane & convert shared left-turn/through lane to exclusive through lane (2L, 1T, 1T/R & 1R)	State System Intersection AM Cycle – 160 seconds PM Cycle – 160 seconds Sat Cycle – 140 seconds N/S runs on split phase	No Change in cycle length Add EBR overlap with NB movement Add SBR overlap with EBL Optimize phase splits to correlate to future volumes during all time periods Corridor offsets changed to promote signal progression & platoon flow during all time periods

Table 28 – Proposed Phase I Capacity Improvements…2 of 2

Location	Capacity		Signal Timing Changes	
	Existing Conditions	Proposed	Existing Conditions	Proposed
Earle Ovington Blvd & Charles Lindbergh Blvd EB/Site Access	EB- 2 left-turn lanes, 1 through lane & 1 channelized right-turn lane WB- 2 left-turn lanes & 1 right-turn lane NB- 2 left-turn lanes & 1 shared through/right-turn lane SB- 2 left-turn lanes & 1 shared through/right-turn lane	EB – No Change WB – No Change NB – No Change SB – Add additional exclusive U-turn lane (1U, 1L, 2T)	Free Operating County Signal	No Change in cycle length Make SB U/L a protected movement Optimize phase splits to correlate to future volumes

Table 29 - Proposed Phase I Signal Improvements...1 of 2

Intersection	Signal / System Changes	
	Existing Conditions	Proposed Mitigation
Hempstead Turnpike & Cunningham Avenue / MSKCC Entrance	State System Intersection	No Change in cycle length All Time periods – Offsets changed to promote signal progression & platoon flow
Merrick Avenue & Charles Lindbergh Blvd	Two Phase County System Intersection	No Change in cycle length All Time periods Add leading NB left-turn phase Optimized phase splits to correlate to future volumes
Hempstead Turnpike & Merrick Avenue	State System Intersection	No Change in cycle length Saturday Time period – Offsets and splits changed to promote signal progression & platoon flow
Merrick Avenue & Glenn Curtiss Blvd/Peters Gate	County System Intersection	No Change in cycle length Sat – Optimized phase splits to correlate to future volumes
Hempstead Turnpike & California Avenue/Hofstra Blvd	State System Intersection	No Change in cycle length All Time periods – Offsets changed to promote signal progression & platoon flow PM and Saturday Time Periods Optimized phase splits to correlate to future volumes
Hempstead Turnpike & Oak Street/Hofstra	State System Intersection	No Change in cycle length All Time periods – Offsets changed to promote signal progression & platoon flow Optimized phase splits to correlate to future volumes
Front Street & Merrick Avenue	State System Intersection	No Change in cycle length Add EBR overlap with NBL Add SBR overlap with EBL All Time periods – Optimized phase splits to correlate to future volumes

Table 29 – Proposed Phase I Signal Improvements...2 of 2

Intersection	Signal / System Changes	
	Existing Conditions	Proposed Mitigation
Fulton Avenue & Peninsula Blvd/Bennett Avenue	County System Intersection	No Change in cycle length Saturday Time period – Offsets changed to promote signal progression & platoon flow Optimized phase splits to correlate to future volumes
Fulton Avenue & Clinton Street	County System Intersection	Saturday Time period Offsets changed to promote signal progression & platoon flow
Fulton Avenue & N. Franklin Street	County System Intersection	No Change in cycle length All Time periods Add leading SB left-turn phase to run with existing NB left-turn phase Optimized to correlate to future volumes
Stewart Avenue & Franklin Avenue	County System Intersection	PM - Change in cycle length to 95 seconds Optimize splits to correlate to future volumes
Old Country Road & Glen Cove Road / Clinton Road	County System Intersection	No Change in cycle length PM - Optimized phase splits to correlate to future volumes
Old Country Road & Merrick Avenue / Post Avenue	County System Intersection	No Change in cycle length AM & Sat - Optimized phase splits to correlate to future volumes

The recommended mitigation measures were applied to those intersections identified in Table 28 and Table 29, above, and the listed intersections were reanalyzed. The capacity analysis results at the mitigated intersections during the weekday a.m. peak hour, the weekday p.m. peak hour and the Saturday peak hour are discussed below and in the TIS in Appendix E. The detailed capacity analysis worksheets are contained in Attachment E of the TIS in Appendix E.

AM Peak Hour

Hempstead Turnpike at Glenn Curtiss Boulevard/Coliseum Access: The overall intersection delay was mitigated to within 1.8 seconds of the No-Build condition. The EB, WB, and NB left-turn movements were mitigated to be better than No-Build condition and improved from LOS F to LOS E.

Hempstead Turnpike at Cunningham Avenue: The offsets at this intersection were changed to promote progression. The intersection continues to operate as it did in

the No-Build condition at LOS A and the northbound approach was improved to LOS E.

Hempstead Turnpike at MSKCC Entrance: The offsets at this intersection were changed to promote progression. The intersection continues to operate as it did in the No-Build condition at LOS A.

Hempstead Turnpike at Earle Ovington Boulevard/Uniondale Avenue: The overall intersection delay is lower by 12.2 seconds and its LOS improves from E to D when compared to the No-Build Condition. All approaches experience less delay than they do in the No-Build Condition. In addition the WB left-turn movement improves from LOS F to LOS E and the SB right-turn movement improves from LOS E to LOS D.

Earle Ovington Boulevard at Charles Lindbergh Boulevard East/Coliseum Access: This intersection continues to operate as it did in the No-Build condition at LOS B.

Merrick Avenue at Charles Lindbergh Boulevard: This intersection continues to operate as it did in the No-Build condition at LOS B. In addition, The NB left-turn movement improves from LOS C in the Build to LOS B in the Build with Mitigation.

Hempstead Turnpike at California Avenue/Hofstra Boulevard: The offsets at this intersection were changed to promote progression. The intersection continues to operate as it did in the No-Build condition at overall LOS C. In addition, the WB left-turn movement improves from LOS F to LOS E.

Hempstead Turnpike at Oak Street/Hofstra Access: The offsets at this intersection were changed to promote progression. The overall intersection maintains the same LOS C as the No-Build condition and the southbound approach improves from LOS F to LOS E.

Front Street at Merrick Avenue: The overall intersection LOS is restored to where it was in the No-Build condition at LOS D. The EB and SB approaches experience less delay than they would in the No-Build Condition. The NB through/right-turn movement improves from LOS F in the Build condition to LOS E in the Build with Mitigation condition.

Fulton Avenue at N Franklin Street: This intersection continues to operate as it did in the No-Build condition at LOS C. All movements, with the exception of the NB through/right-turn movement, operate at the same LOS, or better, when compared to the No-Build Condition. The SB left-turn movement improves from LOS E to LOS C.

Old Country Road at Merrick Avenue/Post Avenue: The overall intersection delay is lower by 4.0 seconds and remains at LOS E when compared to the No-Build condition. All movements operate at the same LOS when compared to the No-Build Condition. The WB left-turn movement operates with significantly less delay.

PM Peak Hour

Hempstead Turnpike at Glenn Curtiss Boulevard/Coliseum Access: The overall intersection delay was mitigated to within 0.6 seconds of the No-Build condition. The WB left-turn movement operates at a lower delay and the NB right-turn movement improves from LOS F to LOS D when compared to the No-Build condition.

Hempstead Turnpike at Cunningham Avenue: The offsets at this intersection were changed to promote progression. The WB left-turn movement improves from LOS F to LOS E when compared to the No-Build condition.

Hempstead Turnpike at MSKCC Entrance: The offsets at this intersection were changed to promote progression.

Hempstead Turnpike at Earle Ovington Boulevard/Uniondale Avenue: The overall intersection delay is lower by 10.7 seconds when compared to the No-Build Condition. All approaches experience less delay than they do in the No-Build Condition. In addition, the EB right-turn movement improves from LOS D to LOS B, the WB left-turn movement improves from LOS F to LOS E, and the SB right-turn movement improves from LOS F to LOS D.

Earle Ovington Boulevard at Charles Lindbergh Boulevard East/Coliseum Access: The overall intersection delay was mitigated to within 1.8 seconds of the No-Build condition. All movements operate at the same LOS, or better, when compared to the No-Build condition.

Merrick Avenue at Charles Lindbergh Boulevard: This intersection continues to operate as it did in the No-Build condition at LOS B. All movements, with the exception of the SB through movement, operate at the same LOS when compared to the No-Build condition.

Hempstead Turnpike at California Avenue/Hofstra Boulevard: The offsets and splits at this intersection were changed to promote progression. The intersection and its individual movements continue to operate as they did in the No-Build condition at the same LOS.

Hempstead Turnpike at Oak Street/Hofstra Access: The offsets at this intersection were changed to promote progression. The intersection continues to operate as it did in the No-Build condition at the same overall LOS.

Front Street at Merrick Avenue: The overall intersection LOS was restored to where it was in the No-Build condition at LOS D. In the process of mitigating this intersection, some individual movements drop LOS.

Fulton Avenue at N Franklin Street: This intersection continues to operate as it did in the No-Build condition at LOS C. All movements, with the exception of the EB through movement and the NB through/right-turn movement, operate at the same LOS, or better, when compared to the No-Build condition. In addition, the SB left-turn improves from LOS C to LOS B.

Stewart Avenue at Franklin Avenue: The overall intersection delay is lower by 6.2 seconds when compared to the No-Build condition. All movements, with the exception of the WB through movement which drops from LOS B to C, operate at the same LOS when compared to the No-Build condition. The SB approach improves from LOS F to LOS E.

Old Country Road at Glen Cove Road/Clinton Road: The overall intersection delay improves by 3.9 seconds and its LOS improves from E to D when compared to the No-Build condition. All movements operate at the same LOS, or better, when compared to the No-Build condition. In addition, the SB left-turn movement delay improves significantly.

Saturday Midday Peak Hour

Hempstead Turnpike at Glenn Curtiss Boulevard/Coliseum Access: The overall intersection delay was mitigated to within 9.5 seconds of the No-Build condition. All movements operate at the same LOS, or better, when compared to the No-Build condition.

Hempstead Turnpike at Cunningham Avenue: The offsets at this intersection were changed to promote progression. The intersection continues to operate as it did in the No-Build condition at overall LOS A. All movements operate at the same LOS, or better, when compared to the No-Build condition.

Hempstead Turnpike at MSKCC Entrance: The offsets at this intersection were changed to promote progression. The overall intersection and its individual movements continue to operate as they did in the No-Build condition at LOS A.

Hempstead Turnpike at Earle Ovington Boulevard/Uniondale Avenue: The overall intersection delay was mitigated to within 2.6 seconds of the No-Build condition.

Earle Ovington Boulevard at Charles Lindbergh Boulevard East/Coliseum Access: This intersection drops from LOS A to LOS B, but continues to operate within 3.5 seconds of the No-Build condition.

Merrick Avenue at Charles Lindbergh Boulevard: This intersection drops from LOS A to LOS B, but continues to operate within 2.0 seconds of the No-Build condition. All movements operate at the same LOS when compared to the No-Build condition.

Hempstead Turnpike at Merrick Avenue: The overall intersection LOS and its individual movements operate at the same LOS or better when compared to the No-Build condition.

Merrick Avenue at Glenn Curtiss Boulevard/Peters Gate: This intersection operates within 0.9 seconds of the No-Build condition.

Hempstead Turnpike at California Avenue/Hofstra Boulevard: The offsets and splits at this intersection were changed to promote progression. The intersection continues to operate as it did in the No-Build condition at LOS C. All movements,

with the exception of the WB through movement, operate at the same LOS when compared to the No-Build condition.

Hempstead Turnpike at Oak Street/Hofstra Access: The offsets and splits at this intersection were changed to promote progression. The intersection continues to operate as it did in the No-Build condition at LOS D, but experiences a lower delay of 2.5 seconds. All movements operate at the same LOS, or better, when compared to the No-Build condition.

Front Street at Merrick Avenue: This intersection continues to operate as it did in the No-Build condition at overall LOS D. All movements, with the exception of the EB left-turn movement, operate at the same LOS, or better, when compared to the No-Build condition.

Fulton Avenue at Peninsula Boulevard/Bennett Avenue: This intersection and its individual movements continue to operate at the same LOS as they did in the No-Build condition.

Fulton Avenue at Clinton Street: The offsets at this intersection were changed to promote progression. The intersection continues to operate as it did in the No-Build condition at LOS C. All movements operate at the same LOS when compared to the No-Build condition.

Fulton Avenue at N Franklin Street: This intersection continues to operate as it did in the No-Build condition at LOS C.

Old Country Road at Merrick Avenue/Post Avenue: The overall intersection delay improves by 1.5 seconds and its LOS improves from E to D when compared to the No-Build condition. All movements, with the exception of the EB through/right-turn movement and the NB left-turn movement, operate at the same LOS, or better, when compared to the No-Build condition.

Full Build Mitigation

Based on the detailed evaluation of potential impacts of the proposed Nassau Hub Innovation District in the Full Build condition, most of the study intersections were found to accommodate the additional site traffic with changes in the signal timing/splits/offsets. However, the following six intersections were identified for capacity expansion:

- Hempstead Turnpike & Glenn Curtiss Blvd/Coliseum Main Entrance
- Hempstead Turnpike & Merrick Avenue
- Hempstead Turnpike & East Meadow Avenue/Park Blvd
- Front Street & Merrick Avenue
- Old Country Road & Merrick Avenue/Post Avenue
- Merrick Avenue & Stewart Avenue/Park Boulevard

The following intersections were identified for signal timing changes:

- Hempstead Turnpike & Cunningham Avenue/MSKCC Entrance (all peak hours)
- Hempstead Turnpike & Earle Ovington Blvd/Uniondale Avenue (all peak hours)
- Earle Ovington Boulevard & Charles Lindbergh Boulevard East/Coliseum Access (AM peak hour)
- Earle Ovington Boulevard & Charles Lindbergh Boulevard West/NCC Access (AM and PM peak hour)
- Hempstead Turnpike & Sonic Driveway/Eisenhower Park Pedestrian Entrance (PM and Saturday peak hours)
- Hempstead Turnpike & Coolidge Drive (all peak hours)
- Merrick Avenue & Glenn Curtiss Blvd/Peters Gate (PM peak hour)
- Hempstead Turnpike & California Avenue/Hofstra Blvd (PM and Saturday peak hours)
- Hempstead Turnpike & Oak Street/Hofstra (PM and Saturday peak hours)
- Front Street & Uniondale Avenue (all peak hours)
- Fulton Avenue & Peninsula Blvd/Bennett Avenue (all peak hours)
- Fulton Avenue & Clinton Street (all peak hours)
- Fulton Avenue & N. Franklin Street (PM and Saturday peak hours)
- Stewart Avenue & Franklin Avenue (AM peak hour)
- Old Country Road & Merchants Concourse/Ellison Avenue (all peak hours)
- Stewart Avenue & Merchants Concourse/Endo Boulevard (AM peak hour)
- Stewart Avenue & Quentin Roosevelt Boulevard/South Street (AM and PM peak hours)

Table 30 and Table 31, below list the recommended mitigation.

Table 30 - Proposed Full Build Capacity Improvements...1 of 2

Location	Capacity		Signal Timing Changes	
	Conditions in 2027	Proposed	Conditions in 2027	Proposed
Hempstead Turnpike & Glenn Curtiss Blvd/Coliseum Main Entrance	EB- 2 left-turn lanes, 4 through lanes & 1 channelized right-turn lane WB- 2 left-turn lanes, 3 through lanes & 2 exclusive right-turn lanes channelized into the site NB- 2 left-turn lanes, 1 through lane, & 2 right-turn lane SB- 2 left-turn lane, 2 through lanes, & 1 right-turn lane	EB – No Change WB – Add 4th through lane (2 U/L, 4T & 2 R) NB – No Change SB – No Change	State System Intersection AM Cycle – 160 seconds PM Cycle – 160 seconds Sat Cycle – 140 seconds	No Change in cycle length Optimize phase splits to correlate to future volumes during all time periods Corridor offsets changed to promote signal progression & platoon flow during all time periods
Hempstead Turnpike & Merrick Avenue	EB- 1 left-turn lane, 3 through lanes & 1 right-turn lane WB- 1 left-turn lane, 3 through lanes, & 1 shared through/right-turn lane NB- 2 left-turn lanes, 1 through & 1 shared through/right-turn lane SB- 2 left-turn lanes, 2 through lanes, 1 right-turn lane	EB – No Change WB – Add additional exclusive right-turn lane & convert shared through/right-turn lane to exclusive through lane (1U/L, 4T & 1R)* NB – No Change SB – No Change *Requires property from Eisenhower Park	State System Intersection AM Cycle – 180 seconds PM Cycle – 170 seconds Sat Cycle – 140 seconds	No Change in cycle length Optimize phase splits to correlate to future volumes during all time periods Corridor offsets changed to promote signal progression & platoon flow during all time periods
Hempstead Turnpike & East Meadow Avenue/Park Blvd	EB- 1 left-turn lane, 2 through lanes & shared through/right-turn lane WB- 1 left-turn lane, 3 through lanes, & 1 channelized right-turn lane NB- 3 through lanes & 1 shared through/right-turn lane SB- 2 left-turn lanes & 1 shared through/right-turn lane	EB – No Change WB – Add additional exclusive right-turn lane & convert shared through/right-turn lane to exclusive through lane (1U/L, 3T & 1R) NB – No Change SB – Add 1 shared left-turn/through lane (2L, 1L/T, 1T/R)	State System Intersection AM Cycle – 180 seconds PM Cycle – 170 seconds Sat Cycle – 140 seconds N/S runs on split phase	No Change in cycle length Optimize phase splits to correlate to future volumes during all time periods Corridor offsets changed to promote signal progression & platoon flow during all time periods

Table 30 – Proposed Full Build Capacity Improvements...2 of 2

Location	Capacity		Signal Timing Changes	
	Conditions in 2027	Proposed	Conditions in 2027	Proposed
Front Street & Merrick Avenue	EB- 1 left-turn lane, 1 through lane & 1 right-turn lane WB- 1 left-turn lane, 1 through lane & 1 shared through/right-turn lane NB- 1 left-turn lane, 1 through lane & 1 shared through/right-turn lane SB- 1 left-turn lane, 2 through lane & 1 right-turn lane	EB – Reconfigure right-turn lane as shared through/right-turn lane (1 L, 1T & 1T/R) WB – Restripe approach with two receiving lanes* NB – No Change SB – No Change *Requires property taking	State Intersection AM Cycle – 163 seconds PM Cycle – 163 seconds Sat Cycle – 163 seconds	Change Cycle length: AM Cycle – 140 seconds PM Cycle – 150 seconds Sat Cycle – 140 seconds Optimize phase splits to correlate to future volumes during all time periods
Old Country Road & Merrick Avenue/Post Avenue	EB- 1 left-turn lane, 2 through lanes & 1 shared through/right-turn lane WB- 2 left-turn lanes, 1 through lane, & 1 shared through/right-turn lane NB- 1 left-turn lane, 1 through lane, 1 shared through/channelized right-turn lane & 1 exclusive channelized right-turn lane SB- 1 left-turn lane & 2 through & 1 right-turn lane	EB – No Change WB – No Change NB – Restriped as 1L, 2T & 2 Channelized R SB – No Change	County System Intersection AM Cycle – 140 seconds PM Cycle – 140 seconds Sat Cycle – 140 seconds	Change AM/PM/Sat Cycle lengths to 160 to match cycle at Merchants Concourse to promote progression Optimize phase splits to correlate to future volumes during all time periods Offsets changed at Merchants Concourse & Merrick Avenue to promote signal progression & platoon flow during all time periods
Merrick Avenue & Stewart Avenue/Park Blvd	EB- 2 left-turn lanes, 2 through lanes & 1 right-turn lane WB- 1 left-turn lane, 1 through lane, & 1 shared through/right-turn lane NB- 1 left-turn lane, 1 through lane, 1 shared through/right-turn lane SB- 1 left-turn lane ,1 through lane, 1 shared through/right-turn lane & 1 right-turn lane	EB – No Change WB – Add additional through lane (1L, 2T & 1T/R) NB – No Change SB – No Change	County System Intersection Runs free during all time periods with a cycle length of 137 seconds	No Change in the Cycle length Optimize phase splits to correlate to future volumes during all time periods

Table 31 – Proposed Full Build Signal Improvements...1 of 2

Intersection	Signal / System Changes	
	2027 Conditions	Proposed Mitigation
Hempstead Turnpike & Cunningham Avenue / MSKCC Entrance	State System Intersection	No Change in cycle length All Time periods – Offsets and splits changed to promote signal progression & platoon flow
Hempstead Turnpike & Earle Ovington Blvd / Uniondale Avenue	State System Intersection	No Change in cycle length All Time periods – Offsets changed to promote signal progression & platoon flow Optimized phase splits to correlate to future volumes
Earle Ovington Boulevard & Charles Lindbergh Boulevard East/Coliseum Access	County System Intersection	No Change in cycle length AM - Optimized phase splits to correlate to future volumes
Earle Ovington Boulevard & Charles Lindbergh Boulevard West/NCC Access	County System Intersection	No Change in cycle length AM & PM - Optimized phase splits to correlate to future volumes
Hempstead Turnpike & Eisenhower Park	State System Intersection	No Change in cycle length PM and Saturday Time periods – Offsets changed to promote signal progression & platoon flow
Hempstead Turnpike & Coolidge Drive	State System Intersection	No Change in cycle length All Time periods – Offsets changed to promote signal progression & platoon flow
Merrick Avenue & Glenn Curtiss Blvd/Peters Gate	County System Intersection	No Change in cycle length PM – Optimized phase splits to correlate to future volumes
Hempstead Turnpike & California Avenue/Hofstra	State System Intersection	No Change in cycle length PM and Saturday Time periods – Offsets changed to promote signal progression & platoon flow Optimized phase splits to correlate to future volumes
Hempstead Turnpike & Oak Street/Hofstra	State System Intersection	No Change in cycle length PM and Saturday Time periods – Offsets changed to promote signal progression & platoon flow Optimized phase splits to correlate to future volumes
Front Street & Uniondale Avenue	State System Intersection	No Change in cycle length PM – Optimized phase splits to correlate to future volumes

Table 31 - Proposed Full Build Signal Improvements...2 of 2

Intersection	Signal / System Changes	
	2027 Conditions	Proposed Mitigation
Fulton Avenue & Peninsula Blvd/Bennett Avenue	County System Intersection	No Change in cycle length All Time Periods Offsets changed to promote signal progression & platoon flow Optimized phase splits to correlate to future volumes
Fulton Avenue & Clinton Street	County System Intersection	No Change in cycle length All Time Periods Offsets changed to promote signal progression & platoon flow Optimized phase splits to correlate to future volumes
Fulton Avenue & N. Franklin Street	County System Intersection	No Change in cycle length PM and Saturday - Optimized to correlate to future volumes
Stewart Avenue & Franklin Avenue	County System Intersection	AM - Optimize splits to correlate to future volumes
Old Country Road & Merchants Concourse/Ellison Avenue	County System Intersection	No Change in cycle length All Time Periods Offsets changed to promote signal progression & platoon flow
Stewart Avenue & Merchants Concourse/Endo Boulevard	County System Intersection	No Change in cycle length AM - Optimize splits to correlate to future volumes
Stewart Avenue & Quentin Roosevelt Boulevard / South Street	County System Intersection	No Change in cycle length AM & PM - Optimized phase splits to correlate to future volumes

The recommended mitigation measures were applied to the identified intersections listed in Table 30 and Table 31, and then were reanalyzed. . The capacity analysis results at the mitigated intersections during the weekday a.m. peak hour, the weekday p.m. peak hour and the Saturday peak hour are discussed below and in the TIS in Appendix E. The detailed capacity analysis worksheets are contained in Attachment E of the TIS (Appendix E).

AM Peak Hour

Hempstead Turnpike at Glenn Curtiss Boulevard/Coliseum Access: The overall intersection delay was mitigated to within 0.8 seconds of the Future 2027 condition. All movements, with the exception of the EB left-turn movement, operate at the same LOS, or better, when compared to the Future 2027 condition.

Hempstead Turnpike at Cunningham Avenue: The offsets at this intersection were changed to promote progression. The overall intersection maintains LOS B conditions.

Hempstead Turnpike at MSKCC Entrance: The offsets at this intersection were changed to promote progression. All movements operate at the same LOS when compared to the Future 2027 condition.

Hempstead Turnpike at Earle Ovington Boulevard/Uniondale Avenue: The overall intersection delay was mitigated to within 0.5 seconds of the Future 2027 condition. This intersection and its individual movements continue to operate as they did in the Future 2027 condition at the same LOS.

Earle Ovington Boulevard at Charles Lindbergh Boulevard East/Coliseum Access: This intersection and its individual movements continue to operate at the same or better LOS when compared to the Future 2027 condition.

Earle Ovington Boulevard at Charles Lindbergh Boulevard West/NCC Access: All movements operate at comparable LOS when compared to the Future 2027 condition.

Hempstead Turnpike at Merrick Avenue: The overall intersection delay improves by 28.4 seconds when compared to the Future 2027 condition.

Hempstead Turnpike at Coolidge Drive: The offsets at this intersection were changed to promote progression. The individual movements continue to operate as they did in the Future 2027 condition at the same LOS.

Hempstead Turnpike at East Meadow Avenue/Park Boulevard: The overall intersection delay improves by 8.6 seconds when compared to the Future 2027 condition.

Front Street at Merrick Avenue: The reconfiguration of this intersection, which included the restriping of the eastbound approach into a left-turn lane, a through lane and a shared through/right-turn lane, the restriping of the westbound approach to include two receiving lanes, and the optimization of the cycle length/phase splits helped to bring the operation of the intersection, as well as the northbound movements/approach, back to the Future 2027 level.

Front Street at Uniondale Avenue: The intersection timings were modified to improve progression. Levels of service are comparable to the Future 2027 condition.

Fulton Avenue at Peninsula Boulevard/Bennett Avenue: This intersection will operate at overall LOS D with the northbound approach operating at LOS D, consistent with the Future 2027 condition LOS.

Fulton Avenue at Clinton Street: This intersection continues to operate with reduced delays when compared to the Future 2027 condition. All movements operate at the same LOS, or better, when compared to the Future 2027 condition.

Stewart Avenue at Franklin Avenue: The overall intersection delay improves by 30.5 seconds when compared to the Future 2027 condition and its LOS improves to D from F.

Old Country Road at Merchants Concourse/Ellison Avenue: The offsets at this intersection were changed to promote progression. The overall intersection delay

improves by 5.6 seconds when compared to the Future 2027 condition. All movements operate at the same LOS, or better, when compared to the Future 2027 condition.

Old Country Road at Merrick Avenue/Post Avenue: The overall intersection delay improves by 14.0 seconds when compared to the Future 2027 condition and its LOS improves to D from E. All movements, with the exception of the SB through movement, operate at the same LOS, or better, when compared to the Future 2027 condition.

Merrick Avenue at Stewart Avenue/Park Boulevard: The overall intersection delay improves by 23.8 seconds when compared to the Future 2027 condition and its LOS improves to E from F.

Stewart Avenue at Merchants Concourse/Endo Boulevard: The overall intersection delay improves by 10.7 seconds when compared to the Future 2027 condition and its LOS improves to E from F. All movements, which the exception of the EB left-turn movement, operate at the same LOS when compared to the Future 2027 condition. The SB movements improve significantly and experience a lower delay.

Stewart Avenue at Quentin Roosevelt Boulevard/South Street: All movements operate at the same LOS or better when compared to the Future 2027 condition.

PM Peak Hour

Hempstead Turnpike at Glenn Curtiss Boulevard/Coliseum Access: The overall intersection delay was mitigated to within 2.2 seconds of the Future 2027 condition. All movements operate at the same LOS, or better, when compared to the Future 2027 condition. I

Hempstead Turnpike at Cunningham Avenue: The offsets at this intersection were changed to promote progression. The overall intersection delay improves by 1.1 seconds when compared to the Future 2027 condition and its LOS improves to A from B. All movements operate at the same LOS when compared to the Future 2027 condition.

Hempstead Turnpike at MSK Entrance: The offsets at this intersection were changed to promote progression. The overall intersection delay improves by 1.2 seconds when compared to the Future 2027 condition. All movements operate at the same LOS when compared to the Future 2027 condition.

Hempstead Turnpike at Earle Ovington Boulevard/Uniondale Avenue: This intersection and its individual movements continue to operate as they did in the Future 2027 condition at the same LOS. The WB through movement was restored to LOS D.

Earle Ovington Boulevard at Charles Lindbergh Boulevard West/NCC Access: This intersection and all its individual movements continue to operate as they did in the Future 2027 condition at the same LOS.

Hempstead Turnpike at Merrick Avenue: This intersection and its individual movements continue to operate as they did in the Future 2027 condition at the same LOS.

Hempstead Turnpike at Sonic Driveway/Eisenhower Park Pedestrian Entrance: The offsets at this intersection were changed to promote progression. The intersection and its individual movements continue to operate as they did in the Future 2027 condition at the same LOS.

Hempstead Turnpike at Coolidge Drive: The offsets at this intersection were changed to promote progression. All movements operate at the same LOS, or better, when compared to the Future 2027 condition.

Hempstead Turnpike at East Meadow Avenue/Park Boulevard: The overall intersection delay improves by 36.4 seconds when compared to the Future 2027 condition and its LOS improves to D from F. All movements operate at the same or better LOS when compared to the Future 2027 condition.

Merrick Avenue at Glenn Curtiss Boulevard/Peters Gate: This intersection continues to operate as it does in the Future 2027 condition at LOS C.

Hempstead Turnpike at California Avenue/Hofstra Boulevard: The offsets at this intersection were changed to promote progression. The overall intersection delay improves by 1.1 seconds when compared to the Future 2027 condition. All movements operate at the same LOS when compared to the Future 2027 condition.

Hempstead Turnpike at Oak Street/Hofstra Access: The offsets at this intersection were changed to promote progression. The intersection and its individual movements continue to operate comparable to the Future 2027 condition at the same LOS. The overall intersection and the WB through movement were restored to their respective Future 2027 condition LOS.

Front Street at Merrick Avenue: The reconfiguration of this intersection, which included the restriping of the eastbound approach into a left-turn lane, a through lane and a shared through/right-turn lane, the restriping of the westbound approach to include two receiving lanes, and the optimization of the cycle length/phase splits helped to bring the operation of the intersection, as well as the southbound movements/approach, back to the Future 2027 level.

Front Street at Uniondale Avenue: This intersection continues to operate as it does in the Future 2027 condition at the same LOS. All movements, with the exception of the WB left-turn movement, operate at the same LOS when compared to the Future 2027 condition. The SB through/right-turn was restored to its Future 2027 condition LOS.

Fulton Avenue at Peninsula Boulevard/Bennett Avenue: This intersection will continue to operate as it did in the Future 2027 condition at the same LOS.

Fulton Avenue at Clinton Street: This intersection continues to operate as it does in the Future 2027 condition at the same LOS. All movements operate at generally the same LOS, or better, when compared to the Future 2027 condition. I

Fulton Avenue at N Franklin Street: This intersection continues to operate as it does in the Future 2027 condition at LOS C.

Old Country Road at Merchants Concourse/Ellison Avenue: The offsets at this intersection were changed to promote progression. The intersection continues to operate as it does in the Future 2027 condition at comparable LOS. All movements, with the exception of the WB through/right-turn movement, operate at the same LOS, or better, when compared to the Future 2027 condition.

Old Country Road at Merrick Avenue/Post Avenue: The overall intersection delay improves by 33.4 seconds when compared to the Future 2027 condition and its LOS improves to E from F. All movements, with the exception of the NB right-turn movement and the SB through movement, operate at the same LOS, or better, when compared to the Future 2027 condition.

Merrick Avenue at Stewart Avenue/Park Boulevard: The overall intersection delay improves by 10.7 seconds when compared to the Future 2027 condition. All movements, with the exception of the EB right-turn movement, operate at the same LOS, or better, when compared to the Future 2027 condition.

Stewart Avenue at Quentin Roosevelt Boulevard/South Street: The overall intersection delay improves by 0.4 seconds when compared to the Future 2027 condition.

Saturday Midday Peak Hour

Hempstead Turnpike at Glenn Curtiss Boulevard/Coliseum Access: The overall intersection delay was mitigated to within 1.3 seconds of the Future 2027 condition. All movements operate at the same or better LOS when compared to the Future 2027 condition.

Hempstead Turnpike at Cunningham Avenue: The offsets at this intersection were changed to promote progression. The intersection and its individual movements continue to operate as they did in the Future 2027 condition at the same LOS.

Hempstead Turnpike at MSKCC Entrance: The timings at this intersection were changed to promote progression. The intersection and its individual movements continue to operate as they did in the Future 2027 condition at the same LOS.

Hempstead Turnpike at Earle Ovington Boulevard/Uniondale Avenue: The overall intersection delay improves by 1.0 second when compared to the Future 2027 condition. All movements operate at the same LOS, or better, when compared to the Future condition.

Hempstead Turnpike at Merrick Avenue: This intersection continues to operate as it does in the Future 2027 condition at the same LOS. All movements, with the exception of the EB right-turn movement, operate at the same LOS, or better, when compared to the Future 2027 condition.

Hempstead Turnpike at Sonic Driveway/Eisenhower Park Pedestrian Entrance: The offsets at this intersection were changed to promote progression. The

intersection continues to operate at overall LOS A consistent with the Future 2027 condition.

Hempstead Turnpike at Coolidge Drive: The offsets at this intersection were changed to promote progression. The intersection improves to overall LOS A from overall LOS B when compared to the Future 2027 condition. All movements operate at the same or better LOS when compared to the Future condition.

Hempstead Turnpike at East Meadow Avenue/Park Boulevard: The overall intersection delay improves by 3.2 seconds when compared to the Future 2027 condition. All movements operate at the same or better LOS when compared to the Future 2027 condition.

Hempstead Turnpike at California Avenue/Hofstra Boulevard: The offsets at this intersection were changed to promote progression. The intersection continues to operate as it does in the Future 2027 condition at the same LOS. All movements, with the exception of the WB right-turn movement, operate at the same LOS, or better, when compared to the Future 2027 condition. In addition, it should be noted that the WB left-turn movement improves from LOS F to LOS E.

Hempstead Turnpike at Oak Street/Hofstra Access: The offsets at this intersection were changed to promote progression. The intersection continues to operate at the same overall LOS as in the Future 2027 condition.

Front Street at Merrick Avenue: The reconfiguration of this intersection, which included the restriping of the eastbound approach into a left-turn lane, a through lane and a shared through/right-turn lane, the restriping of the westbound approach to include two receiving lanes, and the optimization of the cycle length/phase splits helped to bring the operation of the intersection, as well as the southbound movements/approach, back to the Future 2027 level.

Fulton Avenue at Peninsula Boulevard/Bennett Avenue: This intersection will continue to operate at overall LOS C consistent with the Future 2027 condition.

Fulton Avenue at Clinton Street: This intersection will continue to operate at overall LOS D consistent with the Future 2027 condition.

Fulton Avenue at N Franklin Street: This intersection continues to operate as it does in the Future 2027 condition at LOS C.

Old Country Road at Merchants Concourse/Ellison Avenue: The offsets at this intersection were changed to promote progression. The overall intersection delay improves by 2.4 seconds when compared to the Future 2027 condition. All movements continue to operate as they did in the Future 2027 condition at the same LOS.

Old Country Road at Merrick Avenue/Post Avenue: The overall intersection delay improves by 7.1 seconds when compared to the Future 2027 condition and its overall LOS improves to D from E.

Merrick Avenue at Stewart Avenue/Park Boulevard: The overall intersection delay improves by 13.9 seconds when compared to the Future 2027 condition with the overall LOS improving from E to D.

Phased Mitigation

The analysis performed in this study identified a range of roadway improvements that both address existing capacity deficiencies in the study area and mitigate identified impacts. The proposed scale of the Nassau Hub Innovation District project, both in terms of the development site and square footage of buildings, is such that construction will take place in phases over an extended timeframe. In addition, significant on-site infrastructure work, including the development of new roadways and improvements to existing roadways, are included in the development of the Innovation District. The level of construction associated with the project over an extended timeframe calls for a phased implementation strategy for identified improvements to ensure the improvements are in place when necessary are balanced with the capital cost of those improvements and the disruption to the public that construction causes.

In order to facilitate phasing, four "mitigation levels" were identified based on the varying stages of proposed construction and were made to correspond to varying site volume thresholds. Early in the development of the Innovation District, continuous count stations will be established in all the site access points. The equipment used could be traditional pavement-embedded counting loops, video detection or other technology. Collected data will be recorded at a central location and used to establish total site entry and exit driveway volumes on a continual basis. This data will be used to monitor where the development on the site is compared to the mitigation levels and ensure the appropriate mitigation is in place at the established thresholds.

The volume data collected at the site access points represent "driveway volumes". These volumes by definition reflect reductions in the gross traffic volumes developed previously in this study that account for internal capture and transit usage. They do not account for trip generation reductions due to pass-by. As such, the volume thresholds described below are tailored to account for this level of adjustment.

As the project becomes increasingly active, the applicant will continually record the level of traffic entering and exiting the site as a whole. This information will then be used to determine when the varying mitigation will need to be implemented. These mitigation levels and volume thresholds are summarized in Table 32.

Table 32 – Mitigation Levels and Volume Thresholds

Mitigation Required	Driveway Volume Threshold PM Peak Hour (Entering + Exiting)
Level A: Prior to Phase I: Site Access Improvements to facilitate traffic entering and exiting the site	Prior to initial occupancy
Level B: Mid-Phase I: Off-site improvements required to accommodate newly generated traffic within the study area with Phase I	790 Trips Generated
Level C: Prior to Phase II: Off-site improvements required to accommodate initial increases in traffic associated with the construction of the Full Build Development	1,580 Trips Generated
Level D: Mid Phase II: Off-site improvements required to mitigate impacts associated with the Full Build Development	2,260 Trips Generated

The volumetric thresholds devised are relative to the weekday p.m. peak hour traffic generation projections as this analysis period is deemed to be most critical, with site and area background volumes at their highest. Note that with the thresholds established, all mitigation required for Phase I and Full Build will be in place by the midpoint of traffic generation for that phase.

Based on the thresholds established and review of the proposed mitigation for access and associated with each of the two development phases evaluated in this study. With these mitigation levels in mind, the mitigation proposed at each of the study intersections was classified accordingly. This information has been summarized in Table 33.

Table 33 – Mitigation Level by Intersection … 1 of 4

Intersection	Mitigation Required	Mitigation Level	Notes
Hempstead Turnpike and Glenn Curtiss Boulevard/Coliseum Main Entrance	Additional NB left-turn lane & convert shared LT lane to dedicated through and associated timing changes	Level A	Requires Right-of-way from RXR Plaza Project: Improvements to facilitate site access at project inception
	Convert SB shared TR Lane to Exclusive Through Lane and associated timing changes	Level A	Improvements to facilitate site access at project inception
	Additional EB through Lane and associated timing changes	Level B	Modifications to S/S of Roadway within established Right-of-way
	Additional WB through lane and associated timing changes	Level C	Improvements requiring adjustments to N/S of Roadway w/ shift to pedestrian/bicycle pathway
Charles Lindberg Boulevard and James Doolittle Boulevard/Nassau Community College Perimeter Road	Installation of New Traffic Signal to accommodate two exclusive left-turn lanes into both the Nassau Coliseum and Nassau Community College Properties	Level A	Modification to approved traffic signal plan for Nassau Community College to accommodate NB and WB approach modifications
Hempstead Turnpike & Earle Ovington Boulevard/Uniondale Avenue	Additional SB left-turn lane and convert shared LT lane to exclusive through lane and associated timing adjustments	Level B	Requires removal of existing raised median to accommodate proposed lane
	Signal timing adjustments to promote signal progression and platoon flow	Level D	Required to facilitate upstream and downstream progression of Hempstead Turnpike Corridor
Earle Ovington Boulevard and Charles Lindberg Boulevard EB/Coliseum Site Access	Additional SB Left-turn/U-turn Lane and associated timing changes	Level A	Requires modification of existing median to accommodate proposed lane
Hempstead Turnpike & Merrick Avenue	Traffic Signal Timing Modifications and Optimizations for Progression	Level B	Required to facilitate upstream and downstream progression of Hempstead Turnpike Corridor
	Additional exclusive WB right-turn lane and conversion of shared TR lane to exclusive right-turn lane and associated timing changes	Level C	Requires use of Eisenhower Park Land in order to extend right-of-way and fit the roadway improvements
Hempstead Turnpike and East Meadow Avenue/Park Boulevard	Add additional EB right-turn lane and convert shared TR Lane to exclusive through lane and associated timing changes	Level B	Requires modification of existing median to accommodate proposed lane shift and realignment through intersection
	Add additional SB LT Lane and associated timing changes	Level C	Requires modification of roadway median on SB approach and EB approach and approval from NYSDOT for Three Left Turn Lanes in SB direction
Hempstead Turnpike & Cunningham Avenue/MSKCC Entrance	Signal timing and offset modifications for progression	Level C	Required to facilitate upstream and downstream progression of Hempstead Turnpike Corridor
	Further timing and offset modifications for progression	Level D	Required to facilitate upstream and downstream progression of Hempstead Turnpike Corridor

Table 33 - Mitigation Level by Intersection ... 2 of 4

Intersection	Mitigation Required	Mitigation Level	Notes
Merrick Avenue and Charles Lindbergh Boulevard	Traffic Signal Improvements to accommodate leading NB Left Turn Phase	Level B	May require partial signal rebuild to incorporate equipment for new phasing
Hempstead Turnpike and Eisenhower Park Pedestrian Crossing	Further timing and offset modifications for progression	Level C	Required to facilitate upstream and downstream progression of Hempstead Turnpike Corridor
Hempstead Turnpike and Coolidge Drive	Further timing and offset modifications for progression	Level C	Required to facilitate upstream and downstream progression of Hempstead Turnpike Corridor
Merrick Avenue and Glenn Curtiss Boulevard/Peters Gate	Optimization of signal phasing based on projected future volumes	Level B	Modifications based on increased traffic for particular turning movements
Hempstead Turnpike & California Avenue/Hofstra Boulevard	Signal timing and offset modifications for progression	Level B	Required to facilitate upstream and downstream progression of Hempstead Turnpike Corridor
	Further timing and offset modifications for progression	Level D	Required to facilitate upstream and downstream progression of Hempstead Turnpike Corridor
Hempstead Turnpike & Oak Street/Hofstra Site Access	Signal timing and offset modifications for progression	Level B	Required to facilitate upstream and downstream progression of Hempstead Turnpike Corridor
	Further timing and offset modifications for progression	Level D	Required to facilitate upstream and downstream progression of Hempstead Turnpike Corridor

Table 33 – Mitigation Level by Intersection … 3 of 4

Intersection	Mitigation Required	Mitigation Level	Notes
Front Street at Merrick Avenue	Traffic Signal Phasing Modifications for EBR and SBR Overlaps, with NBL and EBL, respectively and associated signal timing changes	Level B	Improvements may require partial signal reconstruction to accommodate modified phasing
	Reconfigure eastbound approach to modify exclusive right turn to shared TR and modify east side of intersection to provide two eastbound receiving lanes and associated signal timing changes	Level C	Requires private property on east side of intersection to accommodate additional receiving lane
Front Street and Uniondale Avenue	Further optimization of signal phasing and timings to accommodate future traffic volumes	Level D	Modifications based on increased traffic for particular turning movements
Fulton Avenue and Peninsula Boulevard/Bennett Avenue	Further signal timing and offset modifications for progression and optimization of signal phasing and timings to accommodate future traffic volumes	Level D	Modifications based on increased traffic for particular turning movements
Fulton Avenue and Clinton Street	Further signal timing and offset modifications for progression and optimization of signal phasing and timings to accommodate future traffic volumes	Level D	Modifications based on increased traffic for particular turning movements
Fulton Avenue and N. Franklin Avenue	Add leading SB left-turn phase to run with NB left-turn phase and optimize phasing based on future traffic volumes	Level B	Adding leading SB left-turn may require traffic signal improvements to incorporate revised phasing
	Further optimization of signal phasing and timings to accommodate future traffic volumes	Level D	Modifications based on increased traffic for particular turning movements

Table 33 – Mitigation Level by Intersection ... 4 of 4

Intersection	Mitigation Required	Mitigation Level	Notes
Stewart Avenue and Franklin Avenue	Modify AM and PM Cycle Length to 95 seconds and modifications to phasing to correspond to future traffic volumes	Level B	Modifications based on increased traffic for particular turning movements
	Further optimization of signal phasing and timings to accommodate future traffic volumes	Level D	Modifications based on increased traffic for particular turning movements
Old Country Road and Glen Cove Road/Clinton Road	Optimization of signal phasing and timings to accommodate future traffic volumes	Level B	Modifications based on increased traffic for particular turning movements
Old Country Road and Merrick Avenue/Post Avenue	Optimization of signal phasing and timings to accommodate future traffic volumes	Level B	Modifications based on increased traffic for particular turning movements
	Minor widening and restriping to provide additional storage length for secondary channelized right-turn lane	Level C	Requires approximately 2-foot shift of EB curb line to incorporate widening and provide adequate striping for each travel lane proposed
Stewart Avenue and Quentin Roosevelt Boulevard/South Street	Optimization of signal phasing and timings to accommodate future traffic volumes	Level C	Modifications based on increased traffic for particular turning movements
Old Country Road and Merchants Concourse/Ellison Avenue	Signal timing and offset modifications for progression	Level C	Modifications based on increased traffic for particular turning movements
Stewart Avenue and Merchants Concourse/Endo Boulevard	Optimization of signal phasing and timings to accommodate future traffic volumes	Level D	Modifications based on increased traffic for particular turning movements
Merrick Avenue and Stewart Avenue/Park Boulevard	Additional westbound through lane	Level C	Requires modification to existing divider to shift lanes southward and add additional lane

To facilitate the phased mitigation implementation, the collected driveway volume data will be shared with the appropriate reviewing agencies and the potential trip generating capacity of each individual site on the overall campus can be considered as their site plans are approved. In this way, the mitigation can be constructed and in place prior to a threshold being exceeded.

In addition, this study utilizes a number of conservative assumptions in adjustments to gross traffic generation of the overall development plans components and uses nationally recognized sources of published trip generation data. At this juncture, this approach is appropriate for planning purposes. However, it is not possible to predict with precision the exact tenancy and effect of the relationship among uses on the site and its effect on external trip making. Because of this, conservative values for adjustments and assumptions were used to present a worst-case evaluation. Given the size of project and the length of time it will take to construct, it is proposed that interim studies of trip generation be performed to establish the actual specifics of site trip generation. This can also be used for parking demand. These studies performed at or near the occupancy of Phase I will provide valuable information regarding parking and traffic which may be used to make adjustments to the development plan as it proceeds toward Full Build. If certain innovations in the coming years (such as ride sharing or work from home initiatives) result in reductions to overall vehicular activity, it may become apparent that the roadway improvements are not necessary or should be modified in their timeline of implementation.

Conclusions

Based on the results of the analyses conducted for the purpose of this report, the following conclusions have been reached.

- The construction of the Nassau Innovation Hub District would result in an increase in the number of trips occurring within the study area as compared to existing conditions. These trips were projected for both the 2024 Phase I condition and the 2027 Full Build condition.
- The magnitude of the generated trips for the Full Build of the anticipated development is in line with the projections associated with the traffic study prepared for the MFM District Lower-Density Alternative.
- The Nassau Hub Innovation District would provide a number of benefits as a true mixed-use site. These include reductions in external trip-making due to internal capture and the ability to share parking among uses, significantly reducing traffic impacts and the amount of parking necessary to serve the site.
- The newly-generated trips can be accommodated within the study area with the implementation of the proposed site access improvements and the recommended off-site mitigation.
- The Nassau Hub Innovation District plan includes the continuing use of the existing Nassau Coliseum. This venue accommodates sporting events, concerts, and other shows. The traffic generated by the anticipated development was

assessed during the period when the arena would be generating its peak level of activity. The results were consistent with the results of the analyses prepared for the roadway peak hours. Thus, the Event Period was not found to be a controlling factor with respect to the overall impacts or the proposed mitigation measures.

- The roadway and shared parking analysis conducted for the periods when events are scheduled at the arena assumed the scenario where an Islanders game was occurring on the premises. Moving forward, the Islanders will not play at the venue and concerts or other live events generated lesser volumes of traffic and parking. Accordingly, the analysis of the event periods contained in the TIS are conservative with respect to the future conditions.
- The proposed access plan is designed to split the arriving and departing traffic flows amongst several locations to minimize impacts, and is more than adequate to handle anticipated site volumes.
- The internal roadway system is designed to provide efficient circulation within the site and to the adjacent roadways. Furthermore, the internal circulation was designed to safely accommodate pedestrian activity, bicycle activity, and on-street parking simultaneously, with vehicular traffic.
- The operation of the Meadowbrook State Parkway Interchange with Hempstead Turnpike will not be impacted by the traffic generated by the proposed development in a significant manner. No improvements are necessary at the ramps of this interchange to facilitate the merge, diverge, and weave sections of roadway.
- As a true mixed-use site, the Innovation District benefits from the ability to share significant numbers of parking stalls between uses. A shared parking study performed for the anticipated development indicates that the parking provided, both on-site and at the nearby Omni and RXR Plaza offices, will be adequate to serve the peak needs at the site in both the Phase I and Full-build Conditions. This includes the activity associated with Events scheduled at the Nassau Coliseum.
- A range of roadway improvements has been identified to facilitate access to and from the Subject Property, address poor existing conditions and mitigate identified impacts on the adjacent roadways and intersections evaluated as part of this TIS in both the Phase I and Full Build conditions. Additionally, the mitigation was determined to be consistent with the improvements which were identified in the MFM District study.
- As construction of the anticipated development is to occur in phases over the course of a number of years, certain site generated traffic volume thresholds were identified to determine the point when various portions of the mitigation would be required.

› With the proposed access plan and implementation of the improvements identified in the TIS, the additional traffic due to the development of the Nassau Hub Innovation District can be accommodated on the adjacent roadways and study intersections evaluated in this TIS and will not result in significant impacts to traffic conditions on area roadways.

3.6 Air Quality

The MFM Findings Statement, which evaluated a mixed-use development at a FAR of 1.6 (similar to that proposed by the Applicant) found that there would be no significant adverse air quality impacts and did not recommend any mitigation measures beyond dust suppression during construction. The Findings Statement also indicated that the traffic mitigation would control air emissions (during project operation), and this would be sufficient and appropriate from an air quality perspective. As there are some differences between the Applicant's anticipated program and the program analyzed in the FGEIS and documented in the MFM Findings Statement, the analysis below 1) updates the relevant air quality information from a regulatory standpoint, 2) evaluates the presence of sensitive receptors on- and off-site, and 3) assesses the traffic information specific to the Proposed Action to determine consistency with the relevant determinations in the MFM Findings Statement.

3.6.1 Existing Conditions

3.6.1.1 Air Quality Standards

In accordance with the requirements of the Clean Air Act (CAA), as amended 1990, the USEPA has promulgated National Ambient Air Quality Standards (NAAQS) (40 CFR part 50) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards. Primary standards set limits to protect public health, including the health of sensitive populations such as asthmatics, children, and the elderly. Secondary standards set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set NAAQS for six principal pollutants, which are called "criteria" pollutants. These six pollutants are ozone (O3), carbon monoxide (CO), nitrogen dioxide (NO2), sulfur dioxide (SO2), particulate matter less than 10 microns in diameter (PM10) and less than 2.5 microns in diameter (PM2.5), and lead (Pb). These standards are reviewed from time to time and may be revised.

The State of New York has adopted similar standards as those set by the EPA, with the exception of lead, total suspended particulates (TSP), particulate matter (PM10, PM2.5), and hydrocarbons. The respective Federal and State standards are summarized in the table below. There are no specific local air quality standards for the Town of Hempstead and, therefore, the NAAQS are the criteria that the project would need to adhere to.

Carbon Monoxide. CO is a product of incomplete combustion. It is a colorless and odorless gas that prevents the lungs from passing oxygen to the blood stream. Brief exposure to high levels of CO can also impair vision, physical coordination, and the perception of time. According to the EPA, 60% of CO emissions result from motor

vehicle exhaust, while other sources of CO emissions include industrial processes, non-transportation fuel combustion and natural sources (i.e., wildfires). In cities, as much as 95% of CO emissions result from mobile sources.[18]

Ozone: Volatile Organic Compounds (VOCs) and Nitrogen Dioxide (NO_2). VOCs and NO_X are important pollutants because of their role in forming ozone, which is also referred to as photochemical smog. Both of these pollutants could be emitted from vehicular sources. VOCs are evaporative emissions from unburned fuel. NO_2, a brownish gas with a pungent odor, is a product of high temperature combustion; it is a pulmonary irritant, and short exposure may increase susceptibility to acute respiratory disease.

Particulate Matter. Particulate matter (PM) is a term referring to particles, solids or liquid droplets, found in the air. Some particles are large enough to be seen as dust, soot, or smoke, while others are too small to be visible. As previously discussed, PM_{10} refers to particulate matter that is 10 micrometers or smaller in size. Similarly, $PM_{2.5}$ refers to particulate matter that is 2.5 micrometers or smaller in size. Particulate matter comes from a variety of sources, including agriculture, industrial sources, on and non-road vehicular sources, and other anthropogenic and natural sources. Emissions from mobile sources constitute less than 30% of the total anthropogenic PM emissions.[19] Fuel combustion in power plants and industrial processes accounts for approximately fifty percent of the anthropogenic PM. Anthropogenic emissions as a whole compose about one third of total PM emissions. The largest direct source of PM is fugitive dust from paved and unpaved roads, agricultural and forestry activities, wind erosion, wildfires, and managed burning. PM is also formed indirectly in the atmosphere by the reaction of gaseous pollutants, such as NO_x and SO_x. PM can have adverse health effects because of its ability to accumulate in the respiratory tract and penetrate into the blood stream. Particulates are associated with increased incidence of cancer, respiratory diseases, and cardiopulmonary disease.

[18] Environmental Protection Agency, National Air Quality and Emissions Trends Report, 1999, March 2001.
[19] Environmental Protection Agency, Report on the Environment, Particulate Matter, 2019. https//www.epa.gov/roe.

Table 34 – National (Federal) and State of New York Ambient Air Quality Standards

Pollutant	Primary Standards		Secondary Standards	
	Level	Averaging Times	Level	Averaging Times
Carbon Monoxide	9 ppm (10 mg/m3)	8-hour	None	
	35 ppm (40 mg/m3)	1-hour		
Lead	0.15 µg/m3 (1)	Rolling 3-month Average	Same as Primary	
Nitrogen Dioxide	53 ppb(23)	Annual (Arithmetic Mean)	Same as Primary	
	100 ppb	1-hour	None	
Particulate Matter (PM10)	150 µg/m3	24-hour	Same as Primary	
Particulate Matter (PM2.5)	12.0 µg/m3	Annual (Arith. Mean)	15.0 µg/m3	
	35 µg/m3	24-hour	Same as Primary	
Ozone	0.07 ppm (2015 std)	8-hour(3)	Same as Primary	
	0.075 ppm (2008 std)	8-hour (3)	Same as Primary	
	0.08 ppm (1997 std)	8-hour (3)	Same as Primary	
Sulfur Oxides	75 ppb(4)	1-hour	3-hour	0.5 ppm (1300 µg/m3)

Notes:

(1) In areas designated nonattainment for the Pb standards prior to the promulgation of the current (2008) standards, and for which implementation plans to attain or maintain the current (2008) standards have not been submitted and approved, the previous standards (1.5 µg/m3 as a calendar quarter average) also remain in effect.

(2) The level of the annual NO2 standard is 0.053 ppm. It is shown here in terms of ppb for the purposes of clearer comparison to the 1-hour standard level.

(3) Final rule signed October 1, 2015, and effective December 28, 2015. The previous (2008) O3 standards additionally remain in effect in some areas. Revocation of the previous (2008) O3 standards and transitioning to the current (2015) standards will be addressed in the implementation rule for the current standards.

(4) The previous SO2 standards (0.14 ppm 24-hour and 0.03 ppm annual) will additionally remain in effect in certain areas: 1) any area for which it is not yet 1 year since the effective date of designation under the current (2010) standards, and 2) any area for which an implementation plan providing for attainment of the current (2010) standard has not been submitted and approved and which is designated nonattainment under the previous SO2 standards or is not meeting the requirements of a SIP call under the previous SO2 standards (40 CFR 50.4(3)). A SIP call is a USEPA action requiring a state to resubmit all or part of its State Implementation Plan to demonstrate attainment of the required NAAQS.

3.6.1.2 Regulatory Context and Pollutants of Concern

The 1990 CAA with Amendments resulted in states being divided into attainment and non-attainment areas, with classifications based upon the severity of their air quality problems. Air quality control regions are classified and divided into one of three categories: attainment, unclassified, or non-attainment depending upon air quality data and ambient concentrations of pollutants. Attainment areas are regions

where ambient concentrations of a pollutant are below the respective NAAQS; non-attainment areas are those where concentrations exceed the NAAQS. Maintenance areas are former non-attainment that achieved attainment. An unclassified area is a region where data are insufficient to make a determination and is generally considered as an attainment area for administrative purposes. A single area can be in attainment of the standards for some pollutants while being in non-attainment for others.

Nassau County is designated as a moderate non-attainment area for the 8-hour ozone standard. Nassau County is no longer subject to the 1-hour ozone standard as of June 15, 2005. The area has been designated a maintenance area for CO as of May 20, 2002 and $PM_{2.5}$ (for the 2006 standard) as of April 18, 2014. Nassau County is in attainment for all of the remaining criteria pollutants (PM_{10}, Pb, NO_2, and SO_2).

The project is expected to affect mobile source emissions, both at the roads and at the parking facilities and stationary source, HVAC emissions. Therefore, CO, PM ($PM_{2.5}$ and PM_{10}) and NO_2 and SO_2 could be pollutants of concern depending on the fuel used by the proposed HVAC systems. Both quantitative and qualitative analyses of mobile sources, parking facilities and stationary sources are presented in Section 3.6.2, below.

3.6.1.3 Impact Criteria

The predicted project-related concentrations will be compared to the NAAQS and to the thresholds established by the NYSDEC. In general, if a project would cause the standards for any pollutant or a threshold to be exceeded, it is considered that a project potentially has a significant adverse air quality impact. NYSDEC thresholds are set for the particulate matter, as follows:

- Annual $PM_{2.5}$ impact not to exceed 0.3 $\mu g/m^3$;
- 24-hour $PM_{2.5}$ impact not to exceed 5 $\mu g/m^3$; and
- 24-hour PM_{10} impact not to exceed 5 $\mu g/m^3$.

3.6.1.4 Existing Pollutant Concentrations

The NYSDEC maintains an air quality monitoring system that measures and records the concentrations of various air pollutants within the State. These monitoring data are then validated and reported to the EPA. The EPA monitoring data site was used to assess the existing air quality levels in the area. Existing concentrations presented in Table 35 are the maximum concentrations observed at the respective monitors representative of the project site.

The project is located in the Nassau County, NYSDEC Region 1 and the Nassau County monitoring locations closest to the site within Nassau County were used as much as possible. For those pollutants not monitored in Nassau County, the closest Queens monitoring location was utilized. Lead is only monitored at a few locations in the NY State, the closest to the project site is the IS 52 in the Bronx.

Table 35 – Highest Monitored Concentrations in 2019

Pollutant	Location	Averaging Time	Highest Pollutant Concentration	NAAQS (NYSDEC)	Existing Concentration vs NAAQS (%)
Carbon Monoxide (CO)	Queens College 2	8-Hour	1.1 ppm	9 ppm	12%
	Queens College 2	1-Hour	1.5 ppm	35 ppm	4%
Nitrogen Dioxide (NO_2)	Queens College 2	Annual	13.61 ppb	53 ppb	26%
	Queens College 2	1-Hour	61 ppb	100 ppb	61%
Ozone (O_3)*	Babylon	8-Hour	0.074 ppm	0.07 ppm	106%
Lead*	IS 52	3 Month	0.0033 µg/m³	0.15 µg/m³	2%
Particulate Matter (PM_{10})	Queens College 2	24-Hour	28 µg/m³	150 µg/m³	19%
Particulate Matter ($PM_{2.5}$)	Queens College 2	Annual	5.9 µg/m³	12 µg/m³	49%
	Queens College 2	24-Hour	27.2 µg/m³	35 µg/m³	78%
Sulfur Dioxide (SO_2)	Eisenhower Park	1-Hour	23.3 ppb	75 ppb	31%

Sources: EPA, Outdoor Air Quality Data, Monitor Values Report: https://www.epa.gov/outdoor-air-quality-data/monitor-values-report, NYSDEC, 2018 New York State Ambient Air Quality Report: https://www.dec.ny.gov/docs/air_pdf/2018airqualreport.pdf

Notes:
ppm = parts per million
ppb = parts per billion
µg/m³= micrograms per cubic meter
*Levels are available only for the year 2018

The highest concentrations monitored around the site in 2019 were examined to see whether the highest levels exceeded the relevant standard. As the comparison shows, all highest pollutant concentrations except ozone were well below the level of the relevant NAAQS. The highest monitored ozone level in Babylon in 2018 exceeded the level of the 8-hour ozone standard. This is understandable since the Nassau County is part of a larger NY-NJ-CT non-attainment area.

3.6.1.5 Background Concentrations

Background concentrations are ambient pollution levels from other than the project stationary, mobile, and area sources. Background concentrations differ from the Existing Condition highest levels, they are calculated to adhere to the format of the respective standards. The background concentrations for the relevant criteria air pollutants are summarized in Table 36. The information to estimate the background concentrations for the pollutants of concern was obtained from the same

monitoring station at Queens College as noted above. Three years of data, 2017 through 2019, were used for all pollutants.

Table 36 - Background Concentrations

Pollutant	Averaging Time	Background Concentration
Carbon Monoxide (CO)	1-Hour	1.7 ppm
	8-Hour	1.2 ppm
Nitrogen Dioxide (NO_2)	1-Hour	55.3 ppb
	Annual	14.4 ppb
Particulate Matter (PM_{10})	24-hour	38 µg/m³
Particulate Matter ($PM_{2.5}$)	24-hour	17.7 µg/m³
	Annual	6.8 µg/m³

3.6.1.6 Existing Greenhouse Gas Emissions

Increased concentrations of greenhouse gases (GHGs) change the global climate, resulting in wide-ranging effects on the environment, including rising sea levels, increases in temperature, and changes in precipitation levels. Although this is occurring on a global scale, the environmental effects of climate change are also likely to be felt at the local level.

The main sources of GHG in the New York State are transportation, buildings' heating and cooking, use of electricity, waste processing and industrial sources. Over the past decade the power sector in NY State reduced GHG emissions so much, that New York State became one of the cleanest in the nation,[20] leaving transportation as the biggest generator of GHG emissions.

New York State works on reducing GHG emissions from buildings, food waste, transportation and other sectors. New York State Energy Plan along with private sector innovation calls for reduction of GHG emissions in the state by 40 percent from the 1990 levels by 2030. This reduction would include using renewable energy sources to generate 50 percent of energy in the state and 23 percent decrease in energy consumption in buildings compared with the 2012 levels. The ultimate goal for the State according to the Climate Leadership and Community Protection Act

[20] NYSDEC: https://www.dec.ny.gov/energy/99223.html

(CLCPA) is to reduce GHG emissions from the 1990 level by 85 percent by 2050. In order to achieve these goals, the State came up with many initiatives to reduce emissions from the transportation sector, the biggest contributor in the State, from buildings, the biggest consumers of energy, and with the plan to reduce methane emissions. NY State is also working on the policy to reduce hydrofluorocarbons (HFCs), potent GHGs.

The State initiatives to reduce transportation GHG emissions are coupled with conversations with stakeholders and participation in the regional initiatives. The NY State initiatives to reduce transportation emissions include creating electric vehicle charging infrastructure and investing in cleaner transportation. Reductions in buildings energy consumption, both electrical and thermal, are achieved through NY Power Authority's BuildSmart program, New York State Energy Research and Development Authority (NYSERDA) home and commercial energy efficiency programs and through promoting cogeneration of heat and power.

Overall, according to the latest NYS GHG Inventory,[21] total GHG emissions in the New York State fell by 13 percent in 2016, compared with 1990.

3.6.1.7 Existing Emissions Sources

Proximate Air Pollution Sources

A review of recent photographs, aerial photography, geographical information systems, and environmental databases indicate that there are likely only minor emissions from building HVAC systems in the project area.

NYSDEC maintains an Environmental Facilities Navigator, which is an interactive online map utility that identifies various facilities of environmental interest, including air emissions sources.[22] The USEPA also maintains a publicly-accessible electronic database of air emissions sources within its Envirofacts Data Warehouse system, known as the Air Facility System (AFS).[23] AFS contains compliance and permit data for stationary air pollution sources regulated by the USEPA, State, and local agencies. According to a review of the Environmental Facilities Navigator and AFS data, two air emissions sources are identified within approximately one-half-mile of the project area, Hofstra University and Nassau Energy Corporation. Hofstra University located at 1000 Fulton Avenue, extends on the north and south sides of Hempstead Turnpike, west of the Subject Property. Nassau Energy Corporation (Engie) located at 185 Charles Lindbergh Boulevard, is directly north of the Subject Property, north of Charles Lindbergh Boulevard.

[21] New York State Greenhouse Gas Inventory: 1990-2016, Final report, July 2019: https://www.dec.ny.gov/docs/administration_pdf/ghginv2019.pdf

[22] Available at: http://www.dec.ny.gov/gis/facilities/.

[23] Available at https://www.epa.gov/sites/production/files/widgets/ef-afs.html.

3.6.2 Probable Impacts

As described in Section 1.2 of this Expanded EA, the Nassau Hub Innovation District project will include commercial, residential and retail land uses along with parking facilities and open spaces. Potential air quality impacts associated with the anticipated development include:

- Impacts from mobile sources
- Impacts from the parking facilities
- Stationary source heating, air conditioning and ventilation (HVAC) impacts.

In addition, the impact of GHG emissions from the anticipated development are also evaluated. Air quality impacts related to construction are addressed in Section 3.11.12 of the Expanded EA.

3.6.2.1 Mobile Source Analysis

The contemplated development is expected to generate automobile trips that may potentially cause increase in the localized pollutant concentrations specifically near the affected intersections. The localized mobile source air quality analysis prepared as part of this environmental review followed the guidelines described in in the EPA's modeling guidance[24] and the NYSDOT Environmental Procedures Manual (EPM).[25]

The Subject Property is located in the CO and $PM_{2.5}$ maintenance area. The screening analysis was conducted to determine which of the affected intersections would be significantly impacted, if any. The CO screening analysis followed the EPM three-step process, as follows:

Level of Service (LOS) Screening

The level of service screening analysis checks the signalized and unsignalized intersections affected by the project and excludes intersections with the LOS A, B and C under the Build conditions from the further analysis unless there are specific sensitive land uses nearby. Fourteen (14) intersections from the 35 analyzed in the traffic study were excluded from the list, based on the LOS screening.

Capture Criteria Screening

Intersections with LOS D, E and F were analyzed to screen against the following criteria:

1) 10 percent decrease in source-receptor distances
2) 10 percent or more increase in traffic volume

[24] United States Environmental Protection Agency, Office of Air Quality Planning and Standards, Technical Support Division. *Guideline for Modeling Carbon Monoxide from Roadway Intersections*. Research Triangle Park, NC; EPA-454/R-92-006 (Revised); September 1995.

[25] New York State Department of Transportation, Environmental Procedures Manual, Chapter 1.1, Environmental Analysis Bureau, Last updated April 2018.

3) 10 percent increase in vehicle emissions from the No Build to Build condition;
4) Increase in number of queue lanes
5) A 20 percent reduction in speed, when the estimated Build speed is at or less than 30 mph.

Two intersections failed the capture criteria and were further screened. These intersections are Hempstead Turnpike with Hotel Drive (James Doolittle Boulevard) and Hempstead Turnpike with Glenn Curtiss Boulevard/Coliseum Access.

Volume Threshold Screening

The intersections that failed the capture screening were checked against the volume thresholds. The thresholds were developed by the NYSDOT to further determine whether an intersection needs to be modeled for the air quality impacts. This criterion ties volumes with the free flow and queue emission factors.

No intersections failed this criterion. However, two intersections with the highest PM peak hour volume increase and the highest delay (which were the same intersections that were identified in the MFM Findings Statement) were selected for the hot-spot analysis.

PM Hot-Spot Screening

Particulate matter screening was conducted in accordance with the EPA Guidance for PM Nonattainment and Maintenance Areas.[26] The guidance refers to the conformity rule (40CFR 93.123(b)(1) and defines projects of local air quality concern that require the PM hot-spot analysis. A project would require a PM air quality analysis if it affects intersections with LOS D, E or F and significant number of diesel vehicles or if it would change an intersection to the LOS D, E or F by adding a significant number of diesel vehicles. The significant number usually is considered as 8% or more as indicated in Appendix B to the above referenced EPA PM Guidance.

The project area includes a number of congested intersections with LOS D or worse that serve a significant percent of diesel vehicles at least at some approaches. The contemplated development would affect some of these intersections, but the project itself generates very few heavy-duty trips. The Proposed Action is not expected to have a significant contribution to the PM concentrations. Therefore, it is assumed that particulate matter impacts of the Proposed Project would not be significant, and detailed analysis is not needed.

Hot-Spot Intersection Analysis

Two signalized intersections were selected for the intersection analysis – the intersection of Hempstead Turnpike and Glenn Curtiss Boulevard/Coliseum Access and the intersection of the Old County Road and Merrick Avenue/Post Avenue. The selected intersections were modeled following the NYSDOT EPM and the EPA

[26] United States Environmental Protection Agency, Transportation Guidance for Quantitative Hot-Spot Analyses in $PM_{2.5}$ and PM_{10} Nonattainment and Maintenance Areas, November 2015.

Guideline for Modeling CO from Roadway Intersections. The analysis was conducted for the No Build (NB) and Full Build (FB) conditions for the analysis year 2027.

CO emissions for this analysis were estimated using the latest version of the EPA emission model MOVES2014b for the month of January and the input files provided by NYSDEC for Nassau County. The EPA default fuel files for the Nassau County were used in this analysis. The age distribution of the fleet was forecasted for the modeling year using EPA age distribution projection tool for MOVES.

CAL3QHC, a dispersion model recommended by the EPA for CO screening analysis, was used to estimate concentrations at receptor locations near the modeled intersections. Receptors were placed along the legs of the intersections at sidewalks and other places to where general public could have access. CAL3QHC inputs include information about the intersection geometry, free flow and queue links, signal timing and other intersection data. The information about the intersections was obtained from Synchro, the traffic simulation software used in the traffic analysis for this Expanded EA. The surface roughness height[27] of 108 centimeters (from the NYSDOT EPM for a single-home use) was used along with the geometrical and emission data as inputs to the CAL3QHC. The eight-hour impacts were calculated using the Nassau County persistence factor of 0.70 from the NYSDOT EPM. The persistence factor accounts for the variation in weather and traffic conditions.

In order to estimate the highest one and eight-hour concentrations shown in Table 37, the maximum predicted project impacts at respective intersections were added to the CO background concentrations from Table 33 for one and eight hours.

Table 37 – Highest Predicted CO Concentrations under the Future No Action/No Build and Full Build Conditions (Parts per Million [ppm])

Intersection	Averaging Time	Project Impacts		Total Concentrations		NAAQS
		NB	FB	NB	FB	
Hempstead Tpke/Glenn Curtiss Boulevard/ Coliseum Access	1-Hour	0.7	0.6	2.4	2.3	35
	8-Hour	0.5	0.4	1.7	1.6	9
Old Country Rd/Merrick Ave/Post Ave	1-Hour	0.7	0.5	2.4	2.2	35
	8-Hour	0.5	0.4	1.7	1.6	9

Background concentrations: 1-hour - 1.7 ppm; 8-hour - 1.2 ppm

The results of the hot-spot air quality analysis indicate that predicted concentrations under the Full Build condition are below the predicted concentrations under the No Action/No Build condition at the worst impacted intersections. The results also show that predicted concentrations were well below the relevant ambient air quality

[27] Surface roughness height is an indicator of near-surface turbulence used in air dispersion modeling. It differs from the flat surface where roughness height is near zero

standards. As such, no significant air quality impacts are expected from the project-generated mobile source emissions.

Parking Analysis

The contemplated development under the proposed CMP includes a number of parking garages and parking lots. The majority of vehicles using the parking facilities are expected to be gasoline-fueled. Hence, the main pollutant of concern from the parking facilities would be CO. At this stage of the project, the exact sizes and designs of these parking facilities have not been finalized. While the Proposed Project would strive to include natural ventilation with openings at the sides of the structures wherever possible, where necessary, the garages would be ventilated mechanically since they would either be wrapped with other uses or would include underground parking levels. In addition, the CMP also includes a number of surface parking lots. As such, a detailed air quality analysis of these facilities is not possible at this time. However, modern fleets emit small and will continue to emit progressively smaller CO amounts as a result of strict engine emission limits and retiring of the older and more polluting vehicles from the fleet. This trend is reflected in low monitored concentrations of CO as shown in Table 32. The highest monitored CO levels comprised only 4% of the 1-hour NAAQS and 12% of the 8-hour NAAQS in 2019. The background CO concentrations are slightly higher (being the highest second highest levels in the last three years), but also small relative to the standards. Thus, no significant air quality impacts are expected from the proposed parking facilities.

3.6.2.2 Impacts of HVAC

The contemplated development includes buildings slated for, residential, office, hotel and commercial uses. All of these buildings will utilize HVAC systems. The energy source for the HVAC systems is still being determined and could be natural gas or variable refrigerant flow (VRF) systems (electric). The buildings are of different heights ranging from about 20 feet to 100 feet. It is possible that HVAC exhaust from the lower buildings may impact the air quality levels at the operable windows/balconies or terraces of buildings of similar or greater height. Should the air quality impact be found significant, a restriction on the exhaust stack location (a setback distance) may be imposed to prevent an air quality impact. The development plans are preliminary, and buildings have not yet been designed; therefore, there are no data available conduct an air quality analysis of HVAC impacts at this time.

Buildings contemplated for inclusion in the Nassau Hub Innovation District are expected to be designed to meet the air quality requirements associated with HVAC impacts. Therefore, it is expected that the on-site HVAC systems of the project would not have a significant air quality impact.

3.6.2.3 Operational Greenhouse Gases

The anticipated development would generate both direct and indirect GHG emissions. The direct GHG would include emissions from the buildings' HVAC systems, emergency generators and fleet owned and operated by the development (e.g., maintenance and security vehicles, delivery vehicles). The indirect GHG emissions will include power generation on demand from the anticipated development, emissions from the vehicle trips of employees, customers, outside deliveries and the waste generation and its transportation. As the proposed development is in the preliminary approval phase, it is not possible to determine specific building design and plans, including plans for the energy generation, it is not possible to estimate GHG emissions. However, it is expected that GHG emissions would be greatly reduced compared with GHG emissions that could have been generated if the project were considering the incorporation of many "green" alternatives to reduce its carbon footprint.

As discussed in Section 3.10 *Energy and Sustainability*, the anticipated development under the proposed CMP is considering the use of several GHG reduction measures, as follows:

- "Green" technology measures, such as high efficiency HVAC systems, high efficiency thermal insulation, high performance insulated glass, green roofs or high-albedo (reflecting) roofs, water conserving fixtures, programmable thermostats, minimize energy use through building orientation, etc.
- Recycling measures, including collecting and re-use of rainwater, promoting and facilitate recycling.
- Use of renewable energy sources, such as solar panels (considered for parking garages), potential use of the Engie Nassau County co-generation plant as an energy source for the overall site.
- Providing alternative transportation paths for bicycles and walking.
- Reducing VMT by providing the infrastructure for and encouraging the use of public transportation, such as buses and BRT, and by the very nature of the development itself, which provides for a variety of uses (e.g., residences, office/R&D, restaurants, retail) within walking distance of each other.

Overall, GHG emissions generated by the project are expected to be small compared to the total Long Island GHG emissions, and even smaller considering the above-mentioned reduction measures.

3.6.3 Proposed Mitigation

The anticipated development is not expected to have significant impact on air quality or generate large amounts of GHG emissions; therefore, no mitigation is required. The following summarizes the conclusions and indicates measures contemplated for incorporation into project design to minimize air quality impacts and to encourage GHG reduction.

Consistent with the MFM Findings Statement, traffic mitigation (which would sufficiently improve traffic flow) would control air emissions and this would be sufficient and appropriate from an air quality perspective. This has been demonstrated by the mobile source air quality analysis (based on the traffic analysis, with mitigation), which determined there would be no significant adverse air quality impacts, and no mitigation measures related to same would be required.

Air quality impacts from the parking facilities are expected to be low and also insignificant. HVAC is anticipated to be designed in a way not to significantly affect the ambient air quality at the operable windows, terraces and balconies of the proposed buildings. No additional mitigation is required for HVAC or parking facilities.

Air quality impacts from construction and mitigation measures to limit them are addressed in Section 3.11.12. Mitigation measures for construction include limiting and suppressing dust generation and carry-out and reducing diesel emissions from construction equipment and construction trucks.

GHG reduction measures from operations cover the “green” building measures to reduce energy demand, use of renewable energy, “green” recycling, reduction in travel and promotion of walking and biking.

Mitigation of GHG from construction includes reduction of direct combustion of fossil fuels, such as diesel, by limiting idling, using electric equipment, limiting travel distances, etc. The other GHG emissions reductions being contemplated for incorporation of the Nassau Hub Innovation District are connected with using recycled and renewable materials and revegetating the Subject Property after construction.

3.7 Noise and Vibration

The MFM Findings indicates that the MFM District Alternative would result in small increases in noise conditions due to vehicle trip generation. The noise increases would be well below the impact threshold levels according to applicable noise criteria and guidance. Therefore, MFM Findings indicate there would no noise or vibration impact and no mitigation measures are required. The following presents an assessment of the Proposed Action to determine its consistency with those conclusions.

3.7.1 Existing Conditions

Background

Noise is defined as unwanted or excessive sound. Sound becomes unwanted when it interferes with normal activities such as sleep, work, or recreation. Noise relates to human annoyance based on several factors including the intensity or level, frequency content and the way sound varies with time as described below:

- Level – Sound levels are most often measured on a logarithmic scale of decibels (dB). As shown in Table 35, the decibel scale compresses the audible acoustic pressure levels which can vary from the threshold of hearing (0 dB) to the threshold of pain (120 dB). Sound levels generally correspond to perceived loudness. Because the sensitivity of human hearing varies with frequency, the A-weighting system is used when measuring environmental sound to provide a single number descriptor (dBA) that correlates with human subjective response.
- Frequency – Sound is comprised of acoustic energy distributed over a range of frequencies. The frequency content of sound is characterized by its tone or pitch and is measured according to the rate of air pressure fluctuations in cycles per second (or Hertz). Pure tones have all their energy concentrated in a narrow frequency range.
- Variation in Time – Human response to sound depends on how loud sounds are and how long they last. Because sound levels fluctuate from moment to moment, it is important to characterize the range of levels that exist over a period of time. This is commonly done by using the following sound level metrics:
  - **Leq** is the energy-average sound level. The Leq is a single value that is equivalent in sound energy to the fluctuating levels over a period of time. Therefore, the Leq takes into account how loud events are during the period, how long they last, and how many times they occur. Leq is commonly used to describe environmental noise and relates well to human annoyance.

- **Ldn** or **DNL** is the day-night average sound level. The Ldn is a value that represents the sound level over a 24-hour period with a 10-dB penalty applied to sound that occurs between 10:00 PM and 7:00 AM when people are more sensitive to noise. Similar to Leq, it takes into account how loud events are, how long they last, how many times the occur and whether they occur at night.
- **Lmax is the maximum instantaneous A-weighted sound level. The Lmax** represents the highest sound level generated by a source. For sources that generate relatively constant sound, the Lmax is similar to the Leq. For sources that generate variable or intermittent sound, the Leq is lower than the Lmax.
- **Statistical sound levels** such as L10, L50, L90 describe the sound level which are exceeded for that percent of time during a given time period. For example, the L10 sound level represents the higher end of the range of sound levels since sound only exceeds that level 10% of the time. Conversely, the L90 sound level represents the lower end of the range of sound levels. The ambient statistical sound levels have been measured and reported to characterize the typical range of sound levels that exist in the project area.

Because sound levels are measured in decibels, adding sound levels is not linear. For example, when there are two equal sources of sound added together, the overall level increases 3 dB (e.g., 60 dB plus 60 dB equals 63 dB). Additionally, research indicates the following general relationships between A-weighted sound level and human perception:

› A 3-dB increase is a doubling of acoustic energy and is the threshold of perceptibility to the average person.

› A 10-dB increase is a tenfold increase in acoustic energy but is perceived as a doubling in loudness to the average person.

Table 38 – Common Outdoor and Indoor Sound Levels

Outdoor Sound Levels	Sound Pressure (μPa)*		Sound Level (dBA)**	Indoor Sound Levels
Jet Over-Flight at 300 m	6,324,555	-	110	Rock Band at 5 m
		-	105	
Gas Lawn Mower at 1 m	2,000,000	-	100	Inside New York Subway Train
		-	95	
Diesel Truck at 15 m	632,456	-	90	Food Blender at 1 m
		-	85	
Noisy Urban Area—Daytime	200,000	-	80	Garbage Disposal at 1 m
		-	75	Shouting at 1 m
Gas Lawn Mower at 30 m	63,246	-	70	Vacuum Cleaner at 3 m
		-	65	Normal Speech at 1 m
Suburban Commercial Area	20,000	-	60	
		-	55	Quiet Conversation at 1 m
Quiet Urban Area—Daytime	6,325	-	50	Dishwasher Next Room
		-	45	
Quiet Urban Area—Nighttime	2,000	-	40	Empty Theater or Library
		-	35	
Quiet Suburb—Nighttime	632	-	30	Quiet Bedroom at Night
		-	25	Empty Concert Hall
Quiet Rural Area—Nighttime	200	-	20	
		-	15	Broadcast and Recording Studios
Rustling Leaves	63	-	10	
		-	5	
Reference Pressure Level	20	-	0	Threshold of Hearing

Source: *Highway Noise Fundamentals*. Federal Highway Administration, September 1980.
* μPA – MicroPascals, which describe pressure. The pressure level is what sound level monitors measure.
** dBA – A-weighted decibels, which describe pressure logarithmically with respect to 20 μPa (the reference pressure level).

3.7.1.1 Noise Regulations, Policies and Ordinances

United States Department of Housing and Urban Development

The United States Department of Housing and Urban Development (HUD) regulates exterior and interior noise conditions for new and redevelopment housing projects which receive certain federal assistance. The HUD noise standards are intended to achieve a suitable living environment for new receptors.

While only projects with HUD funding are required to meet the HUD noise guidelines and standard, they provide useful guidance for evaluating whether new residential receptors would be in a high ambient noise condition and whether measures to reduce ambient noise may be warranted.

The HUD noise standard is intended to protect residential receptors from noise levels that cause interference with normal activities, such as sleep and conversation. HUD has an exterior noise standard of 65 dBA Ldn and an interior noise goal of 45 dBA Ldn. Typical building construction is expected to provide 20 decibels of sound attenuation. Therefore, HUD has established the following exterior noise criteria:

- Ambient exterior noise level not exceeding 65 dBA Ldn is "acceptable".
- Ambient exterior noise level between 65 dBA and 75 dBA Ldn is "normally unacceptable" and an additional 5 to 10 dB of building sound attenuation is typically required.
- Ambient exterior noise level above 75 dBA Ldn is considered "unacceptable" and additional building sound attenuation is typically required according to HUD review on a case-by-case basis.

New York State Department of Environmental Conservation

NYSDEC program policy provides guidance on the methods to assess potential noise impact and avoid or reduce adverse impacts (NYSDEC, 2001). The NYSDEC policy addresses noise assessments and mitigation for both construction and operation of a proposed project.

As shown in Table 39, below, the NYSDEC policy includes guidelines for assessing noise impacts and mitigation. If long-term operations due to a proposed project would increase noise by three dB or less, there would be a minimal effect on future noise conditions and there is no need for mitigation. Changes in noise less than three dB are typically considered to be imperceptible in most environments. If a project would increase ambient noise levels by 3 to 6 dBA, there is potential for adverse noise impact for the most sensitive receptors, and there may be a need for mitigation. For increases in noise of 6 to 10 dBA, there is a greater potential for impact, and mitigation is generally needed. For increases in ambient noise of 10 dBA or more, mitigation is warranted where reasonable.

When a noise study indicates that the proposed action may result in significant impact, NYSDEC requires the applicant to implement reasonable and necessary measures to mitigate or eliminate the adverse effects. If a significant adverse impact is identified, in addition to physical mitigation measures, such as reducing sound at the source or installing noise barriers, an applicant should also consider best management practices (BMPs) to reduce noise by means of modifying noise-generating equipment, limiting the time of noisy operations, or relocating noise sources farther away from receptors.

Since construction activities are short-term in relation to operational noise, separate thresholds are generally used to assess construction noise. According to NYSDEC

policy, a proposed action should generally not raise ambient sound levels above 65 dBA in non-industrial settings or above 79 dBA in industrial environments. Therefore, given the temporary nature of construction noise, an increase in ambient noise of 10 dBA or more that would increase levels above 65 dBA is considered a reasonable construction noise threshold. Beyond these levels, it is recommended that BMPs be used to minimize the effects of construction noise.

Table 39 – NYSDEC Guidelines for Assessing Long-Term Operational Noise Impact and Mitigation

Noise Level Increase (dB)	Impact Determination	Need for Mitigation
0 to 3	No impact	None
3 to 6	Potential adverse impact for the most sensitive receptors	Mitigation may be needed for the most sensitive receptors.
6 to 10	Potential adverse impact depending on existing noise level and character of land use	Mitigation is generally needed for most residential receptors.
10 or more	Adverse impact	Mitigation is warranted where reasonable.

Source: Table created based on NYSDEC Program Policy for Assessing and Mitigating Noise, 2001, VHB

The NYSDEC program policy does not supersede any local noise ordinances or regulations. Therefore, the Town of Hempstead Noise Ordinance is outlined, below.

Town of Hempstead Noise Ordinance

The Town of Hempstead Noise Ordinance (Chapter 144 of the Town Code) provides a list of prohibited acts that can generate a noise disturbance. The following are acts that would pertain to the proposed development:

- The discharge into the open air of the exhaust of any steam engine, stationary internal-combustion engine or motor vehicle, except through a muffler or other sound-dissipative device which effectively will prevent loud or explosive noises there from.
- The erection, including excavating, demolition, alteration or repair, of any building other than between the hours of 7:00 a.m. and 6:00 p.m. on weekdays, except in a case of urgent necessity in the interest of public safety, and then only with a permit from the Department of Buildings, which permit may be renewed for a period of three days or less while the emergency continues.
- Loading, unloading, opening, closing or other handling of boxes, crates or other containers in such a manner so as to create unreasonable noise.
- Operating or permitting the operation of any mechanical powered saw, sander, drill, grinder, lawn or garden tool, snowblower or similar device, which creates an unreasonable noise across a real property boundary other than between the hours of 8:00 a.m. and 9:00 p.m. on Saturdays and Sundays, and between the hours of 7:00 a.m. and 9:00 p.m. on Mondays through Fridays.

› The operation of any machinery, equipment, pump, fan, exhaust fan, attic fan, air-conditioning apparatus or similar mechanical device in such a manner as to create an unreasonable noise across a real property boundary. Machinery noise originating on private property shall be measured at the property line of the property on which the noise source is located.

Chapter 144 of the Town Code has thresholds for transient and steady sound levels that are considered to be a hazard to the health and welfare of the general public. These thresholds are presented in Table 40 and Table 41, respectively. These octave band limits are generally similar to an overall A-weighted sound level of 56 dBA (Steady) and 76 dBA (Transient).

Table 40 – Town of Hempstead Limiting Noise Spectrum for Transient Noise

Band Pressure Level, Decibels (re 0.0002 Microbars)	Octave Band Center Frequency (Cycles per Second)
92	63
87	125
79	250
72	500
66	1,000
60	2,000
54	4,000
52	8,000

Source: Section 144-5, Code of the Town of Hempstead, New York, Effective 11-7-1983.

Table 41 – Town of Hempstead Limiting Noise Spectrum for Steady Noise

Band Pressure Level, Decibels (re 0.0002 Microbars)	Octave Band Center Frequency (Cycles per Second)
72	63
67	125
59	250
52	500
46	1,000
40	2,000
34	4,000
32	8,000

Source: Section 144-5, Code of the Town of Hempstead, New York, Effective 11-7-1983.

Existing Noise Receptors

There are residential and commercial land uses near the proposed development. According to NYSDEC noise policy, these land uses are all typically considered to be sensitive to noise. The following describes the noise-sensitive receptors in the study area:

South of Project Site – There are residences south of the project site on the south side of the Hempstead Turnpike on Cunningham Avenue, Gilroy Avenue, Walton Avenue, Manor Parkway, and Uniondale Avenue, beyond. These residences are generally setback behind first-row commercial properties on Hempstead Turnpike. The closest residences in this area have the potential to be affected by the change in traffic.

East of Project Site – The Long Island Marriott is immediately adjacent to the project site. The hotel has only a limited number of rooms with exterior balconies facing the Subject Property and has no other exterior areas of frequent human use (e.g., courtyards or patios). The Francis Purcell Preserve is located just east of the Marriott Hotel. The greatest potential for operational noise effects in this area would be the potential increase in traffic noise and rooftop HVAC equipment on nearby buildings.

West of Project Site – Noise-sensitive receptors west of the project site include exterior recreational uses such as a multipurpose field and baseball diamond at Mitchel Athletic Complex, the walking/biking paths along Earle Ovington Boulevard and the outdoor tennis courts and other athletic facilities at Hofstra University. These noise-sensitive uses are west of Earle Ovington Boulevard. The greatest potential for operational noise effects in this area would be the increase in traffic noise on Earle Ovington Boulevard.

North of Project Site – Immediately north of the project site is Engie facility which is commercial and not considered to be sensitive to noise. The closest noise-sensitive uses north of the project site is the Nassau Community College farther north of Engie facility. The greatest potential for operational noise effects in this area would be the potential increase in traffic noise on Charles Lindbergh Boulevard.

Project Site – The project site would include residential, hotel, and commercial buildings along with a multiplex cinema and performing arts venue that are sensitive to noise. There is a potential for operational noise impact to the on-site buildings due to traffic and rooftop HVAC equipment on nearby internal buildings.

Noise Measurement Results

The existing environment includes various sources of noise, including vehicular traffic traveling on Charles Lindbergh Boulevard, Earle Ovington Boulevard, Hempstead Turnpike, and other local streets, as well as noise sources associated with the existing commercial and retail uses such as rooftop HVAC equipment and loading areas. The noise monitoring locations are shown on Figure 10.

Noise measurements were conducted to characterize the existing ambient conditions. The noise monitoring was conducted with American National Standards

Institute (ANSI) Type 1 noise monitors (Larson Davis Model 831). Short-term noise measurements (20 minutes) were conducted on Wednesday October 23, 2019 and Saturday, October 26. 2019. Short-term noise measurements were conducted during weekday morning peak (7:00 AM-10:00 AM), weekday afternoon peak (4:00 PM-7:00 PM), and Saturday mid-day (11:00 AM to 3:00 PM) periods. These measurement periods did not include any events at the Nassau Coliseum. Noise generated by the traffic conditions present during these measurements were observed to be typical of the area.

The following describes the four short-term noise measurement locations and the noise sources that were observed during the measurements (see Table 39).

All sound level meters were located at a height of five feet above ground and are representative of the existing conditions prior to implementation of the proposed project. The predominant source of ambient sound was traffic on local roadways for all measurement locations.

Table 39 below summarizes the noise measurement results at each site, including the equivalent sound level (Leq), the maximum sound level (Lmax), and three statistical measures (L10, L50, and L90). The L90 sound level represents the background or quietest sound level during the period while the L10 is more representative of the loudest sound levels that occur during the period. This table shows that Leq sound levels were typically in the mid to upper 60s at residences on Walton Avenue and Earle Ovington Boulevard. Leq sound levels ranged from the low to upper 70s along Charles Lindbergh Boulevard. At the Long Island Marriott, Leq sound levels ranged from the mid-50s to low-60s.

The measured day-night average sound level (Ldn) has been estimated based on Federal Transit Administration (FTA) methods described in the "Transit Noise and Vibration Impact Assessment Manual" which is to estimate that Ldn is 2 dBA lower than Leq sound levels measured between 7:00 AM and 7:00 PM.

The table below presents the highest estimated Ldn based on all four measurement periods. The estimated Ldn at Walton Avenue (Site M1), approximately 80 feet from the near travel lane of the Hempstead Turnpike, was 67 dBA. The estimated Ldn at Site M2, approximately 25 feet from the near travel lane of Earle Ovington Boulevard, was 68.6 dBA. The estimated Ldn at Site M3, approximately 20 feet from the near travel lane of Charles Lindbergh Boulevard, was 76.6 dBA. The estimated Ldn at Site M4, which is near the Long Island Marriott and more inset to the project site, was 60.7 dBA.

Table 42 – Existing Noise Measurement Results

Site	Location	Measurement Period	Leq (dBA)	Lmax (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	Ldn (dBA)
M1	Walton Avenue (Residential)	Morning Peak[1]	68.2	77.7	71.4	66.8	60.1	67.0
		Midday	69.0	84.7	71.0	66.1	59.4	
		Evening Peak[2]	64.4	78.8	67.4	63.1	57.5	
		Saturday Peak[3]	65.4	77.1	68.6	64.2	57.5	
M2	Earle Ovington Boulevard (Hofstra University Park)	Morning Peak	68.5	83.0	72.6	64.5	59.5	68.6
		Midday	68.6	83.6	72.4	65.6	58.3	
		Evening Peak	70.6	83.6	73.6	69.2	59.9	
		Saturday Peak	66.6	76.0	71.0	62.9	55.3	
M3	Charles Lindbergh Boulevard	Morning Peak	74.0	87.5	77.7	71.2	65.7	76.6
		Midday	72.7	85.1	76.8	70.1	62.2	
		Evening Peak	78.6	85.7	81.1	78.4	73.0	
		Saturday Peak	73.2	89.5	77.5	68.3	60.8	
M4	Long Island Marriott	Morning Peak	62.7	90.0	59.4	57.0	55.8	60.7
		Midday	58.0	65.2	59.5	57.5	56.2	
		Evening Peak	59.5	64.6	60.6	59.4	58.0	
		Saturday Peak	54.6	67.8	55.7	52.5	51.4	

Source: VHB, 2019.

[1] Morning Peak is the morning period that coincides with heavy traffic volumes, generally occurring between 7 AM and 9 AM.

[2] Afternoon Peak is the afternoon period that coincides with heavy traffic volumes, generally occurring between 4 PM and 6 PM.

[3] Saturday Peak is during the mid-day generally occurring between 11 AM to 2 PM.

[4] Ldn sound levels estimated based on loudest Leq measurement between 7:00 AM and 7:00 PM minus 2 decibels, per Federal Transit Administration's "Transit Noise and Vibration Impact Assessment Manual" Report No. 0123, September 2018.

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0 125 250 500 Feet

Noise Monitoring Locations

Subject Property

Nassau Hub Innovation District | Town of Hempstead, Nassau County

Noise Monitoring Locations
Hamlet of Uniondale

Source Info: ESRI; VHB, 2019.

3.7.2 Probable Impacts

3.7.2.1 Introduction

The Proposed Action would introduce new sources of noise that may affect existing receptors in the study area due to the introduction of additional vehicles on the roadway network and new stationary sources such as rooftop mechanical equipment. The noise impact assessment also evaluates whether the Proposed Action would introduce new noise-sensitive receptors (i.e., residences) into an acceptable ambient noise environment. This subsection presents the results of the noise impact assessment according to relevant guidelines, ordinances and regulations.

According to the NYSDEC noise policy, significant adverse noise impact is assessed by comparing existing and future noise levels. The increase in traffic noise has been predicted during the morning and evening weekday, Saturday mid-day, and event peak periods. At this phase of the review process, the specific manufacturer, model, types, and sizes of rooftop HVAC equipment is not known. Therefore, noise from rooftop HVAC equipment has been evaluated qualitatively. Noise during the construction of the proposed development has also been evaluated.

Consistent with the HUD Noise Standard, an exterior noise level of 65 Ldn is considered acceptable for new residential receptors. For exterior noise levels greater than 65 Ldn, buildings should be designed to provide sufficient outdoor-to-indoor sound attenuation to achieve an interior noise goal of 45 Ldn.

This section presents the methodologies used to predict noise effects from mobile sources, construction-period noise and vibration and the results of the operational noise impact assessment. Findings from the construction noise and vibration impact assessment are presented in Section 3.11, *Construction Impacts*.

3.7.2.2 Noise Prediction Methodology

For existing receptors, potential for significant adverse noise impact is assessed based on whether there would be a significant increase in traffic noise according to the NYSDEC Noise Policy. Noise modeling was conducted to estimate the increase in traffic noise that would occur with the Proposed Action by comparing Existing, No Build and Full Build traffic volumes during the weekday morning, weekday evening, Saturday afternoon, and Event peak periods. Changes in traffic noise have been evaluated for 35 intersections within the traffic study area.

Proportional traffic modeling was used to determine the increase in noise, where the increase in noise is proportional to the increase in traffic volumes. For example, when traffic volumes double, that would result in an increase of 3 dBA (Leq). If traffic volumes were to quadruple, that would result in an increase of 6 dBA (Leq). Most small changes in traffic would result in small changes in noise.

For new noise-sensitive receptors that would be introduced by the Proposed Action, the average daily-night sound level (Ldn) is used to assess whether they would be

introduced into an acceptable ambient noise environment according to the HUD Noise Standard. In accordance with HUD methods, average annual Ldn levels are calculated including major roadway sources with 10,000 average annual daily traffic (AADT) volumes or higher within 1,000 feet, railroad sources within 3,000 feet, and airports within 15 miles.

Ldn noise levels have been computed using the HUD Calculator Tool and data available from the NYSDOT Traffic Data Viewer including average daily traffic (ADT), percentages of automobiles, medium trucks, and heavy trucks, and posted speed limits. Transportation noise sources included in the HUD noise calculations include the following roadways:

- Hempstead Turnpike with a 2016 AADT of approximately 56,200 vehicles per day, with a posted speed limit of 50 mph, 0.8% trailer trucks, and 3.7% non-trailer trucks.
- Charles Lindbergh Boulevard with a 2016 AADT of approximately 19,900 vpd, with a speed limit of 45 mph, 0.5% trailer trucks, and 3.4% non-trailer trucks.
- Uniondale Avenue with a 2016 AADT of approximately 14,450 vpd with a posted speed limit of 30 mph, 0.1% trailer trucks, and 2.6% non-trailer trucks.

There are no railroads within 3,000 feet of the project site. The Subject Property is approximately 10.5 miles away from John F. Kennedy International Airport, approximately 14 miles away from La Guardia International Airport and approximately 9 miles from Republic Airport and is well outside the DNL 65 dBA annual average airport noise contours for these airports based on the most recent publicly available noise exposure maps.

3.7.2.3 Noise Impact Assessment Results

Mobile Source Analysis

Table 43 presents the results of the mobile source noise assessment including the 35 intersections included in the transportation study area (See Section 3.5.1, Figure 9). This table presents the Existing, No Build, and Full Build traffic volumes for each period and the associated change in traffic noise levels for the Full Build compared to the No Build and compared to Existing conditions.

The increases in traffic volumes with the Full Build are relatively minor compared to Existing and No Build traffic on the roadway network. Full Build traffic noise levels would increase by 0.5 dBA or less at all intersections during all peak periods compared to the No Build condition. Compared to the Existing condition, Full Build traffic noise levels would increase by 1.5 dBA or less at all intersections and all periods except for Hotel Drive (James Doolittle Boulevard)/NCC Perimeter Road & Charles Lindbergh Boulevard West. These small increases in sound levels, which are much less than 3 dBA, would not be perceptible.

At the Hotel Drive (James Doolittle Boulevard)/NCC Perimeter Road & Charles Lindbergh Boulevard West intersection, a traffic signal would be installed at this location in the future condition in order to permit left turns in either the eastbound or westbound directions of travel. With this new intersection traffic noise levels would increase 4.9 dBA during the evening peak period and 4.7 dBA during the Saturday afternoon period. The closest noise-sensitive receptor to this intersection is the Long Island Marriott which is approximately 500 feet away. Since there are no receptors in close proximity to this intersection, and because the increase in noise is less than 6 decibels, there would be no noise impact due to the Propose Action.

Therefore, increases in traffic noise would be below the NYSDEC impact criterion at all receptors and there would be no significant adverse noise impact due to the Proposed Action.

Table 43 - Traffic Noise Analysis

Intersection	Existing Traffic (Total Volume)				2027 No Build Traffic (Total Volume)				2027 Build Traffic (Total Volume)				Noise Increase (dBA) (Build – No Build)				Noise Increase (dBA) (Build – Existing)			
	AM[1]	PM[2]	SAT[3]	Event	AM	PM	SAT	Event	AM	PM	SAT	Event	AM	PM	SAT	Event	AM	PM	SAT	Event
Hempstead Turnpike & Hotel Drive (James Doolittle Blvd)	3,793	4,408	2,892	4,804	4,197	5,093	3,489	5,515	4,470	5,521	3,696	5,632	0.3	0.4	0.3	0.1	0.7	1.0	1.1	0.7
Glenn Curtiss Blvd/Coliseum Main Entrance & Hempstead Turnpike	4,577	5,053	3,075	5,178	5,157	6,084	3,989	6,231	5,595	6,781	4,329	6,423	0.4	0.5	0.4	0.1	0.9	1.3	1.5	0.9
Cunningham Avenue & Hempstead Turnpike	4,029	4,274	2,903	3,637	4,472	4,968	3,551	4,371	4,838	5,325	3,760	4,484	0.3	0.3	0.2	0.1	0.8	1.0	1.1	0.9
Hempstead Turnpike & MSKCC Entrance	3,899	4,030	2,805	3,422	4,396	4,839	3,572	4,277	4,840	5,307	3,837	4,420	0.4	0.4	0.3	0.1	0.9	1.2	1.4	1.1
Uniondale Avenue/Earle Ovington Boulevard & Hempstead Turnpike	4,487	5,098	3,595	4,618	4,867	5,691	4,103	5,195	5,066	5,997	4,252	5,280	0.2	0.2	0.2	0.1	0.5	0.7	0.7	0.6
Earle Ovington Boulevard & East Gate Road/Site Access	1,778	2,090	1,214	2,182	1,951	2,382	1,462	2,488	2,071	2,544	1,546	2,534	0.3	0.3	0.2	0.1	0.7	0.9	1.0	0.6
Earle Ovington Blvd & Charles Lindbergh Blvd East/Site Access	2,103	3,166	1,326	3,242	2,281	3,490	1,559	3,571	2,374	3,640	1,634	3,613	0.2	0.2	0.2	0.1	0.5	0.6	0.9	0.5
NCC/Earle Ovington Boulevard & Charles Lindbergh Boulevard West	2,871	1,613	882	1,857	3,033	1,741	973	2,000	3,065	1,786	996	2,013	0.0	0.1	0.1	0.0	0.3	0.4	0.5	0.4
Hotel Drive(J.D. Blvd)/NCC Perimeter Road & Charles Lindbergh Blvd	2,251	1,235	616	N/A	3,164	3,429	1,628	4,670	3,412	3,814	1,815	4,776	0.3	0.5	0.5	0.1	1.8	4.9	4.7	N/A
Merrick Avenue & Charles Lindbergh Blvd	2,138	2,936	1,555	2,149	2,413	3,436	1,968	2,598	2,576	3,759	2,112	2,681	0.3	0.4	0.3	0.1	0.8	1.1	1.3	1.0
Merrick Avenue & Hempstead Turnpike	5,435	5,583	4,616	5,451	5,835	6,125	5,102	5,992	5,966	6,345	5,205	6,051	0.1	0.2	0.1	0.0	0.4	0.6	0.5	0.5
Eisenhower Park & Hempstead Turnpike	3,554	3,543	2,695	3,630	3,775	3,812	2,919	3,905	3,827	3,893	2,958	3,927	0.1	0.1	0.1	0.0	0.3	0.4	0.4	0.3
Coolidge Drive & Hempstead Turnpike	3,727	3,496	2,825	3,584	3,954	3,762	3,056	3,855	4,006	3,843	3,095	3,877	0.1	0.1	0.1	0.0	0.3	0.4	0.4	0.3
East Meadow Avenue/Park Blvd & Hempstead Turnpike	4,738	4,771	3,825	4,483	5,013	5,096	4,104	4,796	5,065	5,177	4,144	4,818	0.0	0.1	0.0	0.0	0.3	0.4	0.3	0.3
Merrick Avenue & Glenn Curtiss Blvd/Peters Gate	2,662	2,771	2,012	2,328	2,954	3,251	2,445	2,792	3,151	3,559	2,594	2,876	0.3	0.4	0.3	0.1	0.7	1.1	1.1	0.9
California Avenue/Hofstra Blvd & Hempstead Turnpike	3,341	3,512	2,898	3,248	3,623	3,936	3,283	3,665	3,767	4,164	3,394	3,727	0.2	0.2	0.1	0.1	0.5	0.7	0.7	0.6
Hofstra/Oak Street & Hempstead Turnpike	3,237	3,467	2,642	3,245	3,506	3,874	3,001	3,646	3,642	4,088	3,105	3,705	0.2	0.2	0.1	0.1	0.5	0.7	0.7	0.6
Merrick Avenue & Front Street	3,391	3,816	3,142	3,494	3,719	4,346	3,629	4,014	3,916	4,653	3,778	4,098	0.2	0.3	0.2	0.1	0.6	0.9	0.8	0.7
Uniondale Avenue & Front Street	2,214	2,366	2,293	1,535	2,348	2,535	2,458	1,623	2,383	2,589	2,484	1,627	0.1	0.1	0.0	0.0	0.3	0.4	0.3	0.3
California Avenue & Front Street	1,615	1,693	1,412	2,267	1,697	1,788	1,492	2,436	1,706	1,802	1,499	2,451	0.0	0.0	0.0	0.0	0.2	0.3	0.3	0.3
Peninsula Blvd/Bennett Avenue & Fulton Avenue	3,111	3,479	2,855	3,364	3,363	3,865	3,207	3,748	3,492	4,065	3,305	3,803	0.2	0.2	0.1	0.1	0.5	0.7	0.6	0.5
Clinton Street & Fulton Avenue	3,170	3,384	2,890	3,285	3,406	3,724	3,200	3,621	3,510	3,886	3,278	3,666	0.1	0.2	0.1	0.1	0.4	0.6	0.5	0.5
N Franklin Avenue & Fulton Avenue	3,182	3,252	3,330	3,129	3,403	3,557	3,632	3,428	3,489	3,691	3,698	3,464	0.1	0.2	0.1	0.0	0.4	0.5	0.5	0.4
Franklin Avenue & Stewart Avenue	3,262	4,087	3,526	3,783	3,426	4,300	3,714	3,982	3,435	4,314	3,721	3,986	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
Franklin Avenue/Mineola Boulevard & Old Country Road	3,887	4,095	3,522	3,863	4,090	4,325	3,724	4,080	4,108	4,353	3,737	4,088	0.0	0.0	0.0	0.0	0.2	0.3	0.3	0.2
Clinton Road/Glen Cove Road & Old Country Road	5,407	6,102	3,536	6,011	5,704	6,470	3,780	6,377	5,747	6,537	3,813	6,395	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
Merchants Concourse/Ellison Avenue & Old Country Road	2,452	3,791	3,536	3,485	2,590	4,009	3,741	3,690	2,608	4,037	3,754	3,698	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
Merrick Avenue/Post Avenue & Old Country Road	4,331	5,788	4,922	5,190	4,612	6,194	5,288	5,569	4,666	6,278	5,327	5,593	0.1	0.1	0.0	0.0	0.3	0.4	0.3	0.3
Merrick Avenue & Stewart Avenue/Park Blvd	3,552	4,612	3,781	3,849	3,878	5,068	4,190	4,270	3,938	5,162	4,236	4,295	0.1	0.1	0.0	0.0	0.4	0.5	0.5	0.5
Endo Boulevard/Merchants Concourse & Stewart Avenue	3,897	4,919	3,576	3,921	4,112	5,188	3,783	4,142	4,112	5,188	3,783	4,142	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
Quentin Roosevelt Blvd/South Street & Stewart Avenue	3,571	5,033	3,777	4,023	3,768	5,325	4,010	4,267	3,794	5,365	4,030	4,278	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3

Source: VHB, 2020.

[1] Morning Peak is the morning period that coincides with heavy traffic volumes, generally occurring between 7 AM and 10 AM.

[2] Afternoon Peak is the afternoon period that coincides with heavy traffic volumes, generally occurring between 4 PM and 7 PM.

[3] Saturday Peak is during the mid-day generally occurring between 11 AM to 3 PM

[4] N/A: Saturday Peak is during the mid-day generally occurring between 11 AM to 3 PM

HUD Noise Assessment

The HUD Calculator Tool was used to determine Ldn noise levels from the following major roadways (10,000 AADT or greater) within 1,000 feet of the Project site:

- Hempstead Turnpike
- Charles Lindbergh Boulevard
- Uniondale Avenue (Earle Ovington Boulevard)

Ldn noise levels were calculated at the closest residential receptors that would be introduced by the project which include the three residential (mixed-use) buildings which are approximately 560 feet from Hempstead Turnpike, approximately 1,500 feet from Earle Ovington Boulevard/Uniondale Avenue, and approximately 1,200 feet from Charles Lindbergh Boulevard. The Ldn from Hempstead Turnpike, Charles Lindbergh Boulevard, and Earle Ovington Boulevard/Uniondale Avenue is 61.4, 49.2 and 43.4 Ldn, respectively. These calculations conservatively assume there is no reduction in noise due to intervening buildings. The total Ldn level at the new residential receptors on the Subject Property would be 61.7 Ldn, which is below the HUD Noise Standard of 65 Ldn and is considered an acceptable exterior noise environment.

Stationary Sources

The Proposed Project is not anticipated to include any substantial stationary source noise generators outside of typical HVAC equipment and potentially life-safety emergency generators used on similar developments. The design and specifications for the mechanical equipment, such as HVAC, are not known at this time, since specific tenants have not yet been determined. As the project design advances, mechanical equipment will be selected that incorporates sufficient noise reduction to comply with applicable noise regulations and standards, including the standards contained in the Town of Hempstead Noise Code and the NYSDEC noise impact criteria. This will ensure that mechanical equipment does not result in any significant increases in noise levels by itself or cumulatively with other project noise sources.

The majority of the proposed buildings would be set back from the real property line at least 34 feet and would typically be 20 to 100 feet tall. The closest proposed building to the near property line would be a small retail building at the easternmost driveway at Hempstead Turnpike, which would be set back approximately 17 feet from the eastern property line adjacent to a parking area. This building is assumed to be approximately 20 feet tall. Rooftop mechanical equipment would generally be shielded by the edge of the roof and/or parapet for receptors on the ground-level at the near property line. The closest existing building with elevated receptors is the Long Island Marriott which is approximately 200 feet away from the closest proposed buildings. At these distances and with acoustic shielding from the edge of the roof, most rooftop mechanical equipment will not exceed the Town of

Hempstead Noise Code which is approximately an overall A-weighted sound level of 56 dBA.

As needed, additional sound attenuation features would be incorporated into the mechanical design, such as specifying low-noise equipment, adding sound attenuation packages to the equipment such (e.g. quieter fans, adding acoustic absorption to the equipment enclosures, etc.), and rooftop parapet barriers or barriers near the equipment.

Based on the foregoing analysis, the Proposed Project is consistent with the MFM Findings, which indicate that the noise increases associated with the contemplated development would be well below the impact threshold levels according to applicable noise criteria and guidance. As such, consistent with the MFM Findings Statement, there would be no significant noise or vibration impact and, therefore, no mitigation measures are warranted.

3.7.3 Proposed Mitigation

As discussed in Section 3.7.2.2, the Proposed Action is expected to increase operational noise levels at existing receptors by 1.5 dBA or less at all intersections during all periods except for the Hotel Drive (James Doolittle Boulevard)/NCC Perimeter Road & Charles Lindbergh Boulevard West intersection. At this new intersection, traffic noise levels would increase 4.9 dBA during the evening peak period and 4.7 dBA during the Saturday afternoon period. However, the closest noise-sensitive receptor to this intersection is the Long Island Marriott, which is approximately 500 feet away. Increases in traffic noise would be below the NYSDEC impact criterion at all receptors and there would be no significant noise impact due to the Proposed Action and no need for operational noise mitigation.

Since the Ldn noise level for new residential receptors that would be introduced by the Proposed Project would be acceptable according to the HUD Noise Standard, it is not necessary to specify particular outdoor-to-indoor sound attenuation of these residential buildings according to the HUD Noise Standard.

See Section 3.11.11 for a discussion of the construction-related noise mitigation.

3.8 Community Facilities and Services

The MFM Findings Statement, which evaluated a mixed-use development at a FAR of 1.6 (similar to that proposed by the Applicant), found that the size of the MFM District and its regulations (development density at a FAR of 1.6 and the restriction on the number of new residential units) would limit associated impacts to those that can be mitigated by feasible means. The analysis conducted in the GEIS included an impact evaluation on the demand for police, fire and emergency services as well as other community facilities, including the local school district.

As there are some differences between the Applicant's anticipated program and the program analyzed in the FGEIS and documented in the MFM Findings Statement, updated analyses were undertaken to demonstrate the Proposed Action's consistency with the conclusions from the MFM Findings.

3.8.1 Existing Conditions

Fire Protection and Emergency Medical Services

The Subject Property is situated within the jurisdiction of the Uniondale Fire Department (UFD), which provides fire protection and emergency medical services. The headquarters is located at 501 Uniondale Avenue in the hamlet of Uniondale, approximately 1.03 miles south of the Subject Property. The UFD is bounded by Stewart Avenue to the north, Meadowbrook Parkway to the east, Southern State Parkway to the south and Nassau Road to the west.

According to the UFD's website,[28] the Fire Department consists of over 110 members and operates 24 hours per day, 365 days per year, and is comprised of four companies (one of which includes an EMS squad and Rescue team). The UFD participated in a CBAC meeting held on November 20, 2018, where UFD Chief Skelly indicated that in 2018 the UFD received approximately 1,900 calls – 80% residential calls and 20% commercial calls.

The Sherman Van Ness Fire Station is the closest Fire Station to the Subject Property, located approximately 0.30 mile south of the Subject Property at 154 Uniondale Avenue. This fire station is home to Emergency Company 1 which is divided into two parts, Rescue and EMS. The Rescue department consists of members of the fire department who are trained in special areas, like confined space rescue and vehicle extrication. The Rescue team responds to all firefighting alarms and assist the EMS Squad when in need of an ambulance. The EMS Squad's main responsibility is to help community members who may be sick or injured. All members of the Emergency Company 1 are trained as Emergency Medical Technicians (EMTs). Emergency Company 1 is equipped with two ambulances and a heavy rescue truck.

[28] Uniondale Fire Department. Available at: http://www.uniondalefd.org/. Accessed August 2019.

In addition to Emergency Company 1, the Manor Fire Company 3 is located at the Sherman Van Ness Fire Station. Manor Fire Company 3's primary role is fire suppression and extinguishment while responding to all firefighting alarms such as building fires, car accidents and brush fires.

Protection Ladder Company No. 4 is located on the corner of Uniondale Avenue and Lafayette Street, approximately one mile south of the Subject Property. Company No. 4 is a ladder company, also known as a truck company, has a tower ladder truck, an aerial truck, and a special service vehicle, which is used to transport members and carry specialty equipment.

The UFD protects diverse residential uses as well as some major commercial and institutional uses. Specifically, the UFD serves, parts of the Meadowbrook Parkway and the Southern State Parkway, the Nassau Coliseum and uses containing high-rise buildings such as the Long Island Marriott Hotel (135 feet), the Omni building (122 feet), RXR Plaza (175 feet), Hofstra University Residence Halls (170 feet), and Nassau Community College (146 feet) (refer to Section 3.9 for a graphic depicting the heights of a number of surrounding buildings).

It is also noted that a Nassau County Fire Marshal is assigned to the venue 24/7 for day-to-day and all event-related needs.

Consultations were undertaken with the UFD in connection with the Proposed Action. Specifically, correspondence dated March 10, 2020 (see Appendix F), was sent to the Uniondale Fire District Board of Fire Commissioners informing the Fire District and the UFD of the Proposed Project, requesting information relative to firefighting services in the area of the Subject Property, and requesting information regarding the ability to serve the anticipated development.

With regard to emergency medical services/ambulances, the Nassau County Police Department (NCPD) provides emergency medical services (EMS) to Subject Property through the NCPD Emergency Ambulance Bureau (EAB). The EAB is the primary emergency medical service provider for the majority of Nassau County, including the Nassau Coliseum, and handles most of the 911 calls for medical assistance. There are approximately 136 Police Medics and 14 additional members who are Police Medic Supervisors, Police Medic Coordinators, one Bureau Director, and one Assistant Bureau Director. The EAB provides pre-hospital Advance Life Support EMS care. As mentioned previously, EMS are also provided by the Uniondale Fire Department, which provides backup to the EAB when 911 is called. If the Uniondale Fire Department is called directly, the Uniondale EMS Squad would provide primary EMS. Correspondence dated March 10, 2020 (see Appendix F), was sent to Frank J. Gephardt, Police Medic Supervisor of the NCPD EAB informing the EAB of the proposed project, requesting information relative to EMS in the area of the Subject Property and requesting information on the ability of the EAB to serve the Proposed Project.

Currently, Paradocs Worldwide is the contracted medical provider for the Nassau Coliseum. Through Paradocs Worldwide, EMTs paramedics, ambulance services and

dispatchers are assigned to the venue for each event. Paradocs Worldwide also has the ability to respond outside the venue (on the property) in conjunction with the NCPD EAB and local fire department EMS.

Police Protection

The Subject Property is situated within the jurisdiction of the NCPD Third Precinct, located approximately 4.0 miles northwest of the Subject Property, at 214 Hillside Avenue, Williston Park in the hamlet of Williston Park. The precinct covers, among other major facilities, the Subject Property, Nassau County offices, Nassau County courts, Nassau Community College, Hofstra University, Eisenhower Park, Mitchel Athletic Complex, Museum Row, Nassau University Hospital, NYU Winthrop Hospital and Roosevelt Field mall. Correspondence dated March 10, 2020 (see Appendix F), was sent to Police Commissioner Patrick J. Ryder of the NCPD informing the NCPD-Third Precinct of the proposed project, requesting information relative to police protection in the area of the Subject Property and requesting information on the ability of the NCPD to serve the Proposed Project.

With respect to on-site security, currently, there are entry booths to the parking areas that are manned during events, the Coliseum provides its own security, and the NCPD provides exterior patrols (vehicular, mounted police) during events. Specifically, on event days with over 3,000 people in attendance, the NCPD Mounted Unit is assigned to the Nassau Coliseum and handles all issues outside the building,

ASM Global/Nassau Coliseum Security Department handles all 24-hour security needs and posts inside the building, as well as all event-related needs on a case-by-case after an evaluation with each event. The NCPD responds inside the venue at any time when needed and is connected to ASM Global management personnel via direct radio communications. A 24/7 Command Center, located inside the Coliseum and staffed by Nassau Coliseum security, monitors and responds to all fire panel alarms and issues. While staffing levels are determined by individual events, there are three full-time management personnel under the direction of the building's general manager.

Educational Facilities

The Subject Property is located within the Uniondale Union Free School District (UFSD). The Uniondale UFSD maintains nine schools, including:

- Uniondale Pre-K (Pre-K)
- California Avenue School (Grades: Kindergarten through 5)
- Grand Avenue School (Grades: Kindergarten through 5)
- Northern Parkway School (Grades: Kindergarten through 5)
- Smith Street School (Grades: Kindergarten through 5)
- Walnut Street School (Grades: Kindergarten through 5)
- Lawrence Road Middle School (Grades: 6 through 8)

- Turtle Hook Middle School (Grades: 6 through 8)
- Uniondale High School (Grades: 9 through 12)

Based on publicly available information from the New York State Education Department (NYSED),[29] the total enrollment of the Uniondale UFSD is shown as 7,300 students for the 2019-2020 school year. According to NYSED enrollment data over the last eight school years, as shown in the table below, the Uniondale UFSD's enrollment has been increasing.

Table 44 – Uniondale UFSD Enrollment by Year

School Year	Enrollment	Increase (+)/Decrease (-) From Prior School Year
2018 - 19	7,222	0 (0%)
2017 – 18	7,222	+100 (1.4%)
2016 – 17	7,122	+389 (5.8%)
2015 – 16	6,733	+ 87 (1.3%)
2014-15	6,646	+98 (1.5%)
2013-14	6,548	+22 (<1%)
2012-13	6,526	+88 (1.4%)
2011-12	6,438	--

Source: http://www.p12.nysed.gov/mgtserv/propertytax/

According to the Uniondale UFSD website,[30] a bond referendum to upgrade the district buildings was passed in May 2019. The district's Capital Improvement Construction Update from August 2019 indicates construction improvements in three phases to the schools within the district are to continue throughout 2020. The construction improvements within the Uniondale UFSD address the increased number of school-aged children who have entered the School District.

In addition to the schools within in the Uniondale UFSD, Kellenberg Memorial High School, a private parochial high school, is located south of the Subject Property, just south of Hempstead Turnpike.

The Subject Property is also located adjacent to several higher education institutions including Hofstra University and NCC and Adelphi University is located three miles to the west.

The Subject Property does not currently generate any school-aged children.

[29] New York State Education Department. *New York State Property Tax Report Card.* Available at: http://www.p12.nysed.gov/mgtserv/propertytax/. Accessed August 2019.

[30] Uniondale Union Free School District Bond Information. *Capital Improvement Construction Update: August 2019 Presentation.* Available at: https://district.uniondaleschools.org/bond_information. Accessed November 2019.

Solid Waste (Collection and Disposal)

The Subject Property is situated within the Town of Hempstead Refuse and Garbage District. However, solid waste from the Nassau Coliseum is collected by Winters Brothers, a private carter, and is brought to the Covanta Hempstead Waste to Energy Facility (Covanta) located at 600 Merchants Concourse in Westbury, approximately 0.85-mile northwest of the Subject Property.

According to the New York State Department of Environmental Conservation (NYSDEC),[31] the Town of Hempstead has submitted a Draft Local Solid Waste Management Plan, which is currently being reviewed. Since the final Hempstead plan is not yet available, the NYSDEC solid waste management plan entitled The NYSDEC solid waste management plan is entitled *Beyond Waste: A Sustainable Materials Management Strategy for New York State* was consulted. This plan,

> *seeks to put forward resources, policy and programmatic tools and options for planning units and communities that will help ensure strong waste reduction, reuse and materials recovery throughout the state, both in areas where there is a substantial private sector role and in communities that practice flow control or use other oversight tools. The recommendations…include a new broad policy, expanded financial assistance for progressive solid waste and sustainable materials management, and education for consumers and businesses to help them reduce their generation of waste and recycle what cannot be reduced. They also include detailed recommendations for how planning units can better plan for recovery and offer strategies for developing and/or improving New York State's recovery infrastructure.*

Furthermore,

> *[t]he quantitative goal of the Plan is to reduce the amount of waste New Yorkers dispose by preventing waste generation and increasing reuse, recycling, composting and other organics recycling methods.*

3.8.2 Probable Impacts

Population Projection

For the purposes of this analysis, population multipliers from the Rutgers University, Center for Urban Policy Research's *Residential Demographic Multipliers: Estimates of the Occupants of New Housing (New York)* (2006)[32] (the "Rutgers Study") were used to estimate the number of persons to be generated by the development of 500 residential units on the Subject Property. Since the Rutgers Study multipliers are based on unit type, a theoretical unit-mix is set forth below for the purpose of

[31] New York State Department of Environmental Conservation. *Status of Local Solid Waste Management Plans (LSWMP)*. Available at: https://www.dec.ny.gov/chemical/65541.html. Accessed February 2020.

[32] *Residential Demographic Multipliers, Estimates of the Occupants of New Housing (New York)*, Rutgers University, Center for Urban Policy Research. June 2006. Accessed January 2020. The multipliers for 5+ rental units, at the highest rental price were used in the analysis.

developing a conservative estimate of population generated by the construction of 500 residential units, which estimate is carried through the analysis of potential impacts included herein. However, as the CMP will be developed over multiple years and the ultimate development will be influenced by market conditions as uses are constructed, the final unit mix cannot be precisely determined.

The theoretical bedroom mix set forth below would also establish a conservative population threshold. As the final unit mix is not known at this preliminary approval phase of the proposed CMP, for the purposes of analyzing potential impacts, a unit mix divided evenly between the unit types envisioned for the anticipated development, as described in Section 1.2 (e.g., 20% studio units [100], 20% one-bedroom units [100], 20% two-bedroom units [100], 20% three-bedroom units [100], and 20% four-bedroom units [100]) is provided).

100 studio units x 1.67[33] persons per unit =	167 persons
100 1-bedroom units x 1.67 persons per unit =	167 persons
100 2-bedroom units x 2.31 persons per unit =	231 persons
100 3-bedroom units x 3.81 persons per unit =	381 persons
100 4-bedroom units x 5.08[31] persons per unit =	508 persons
TOTAL	1,454 persons

Based on the foregoing, a population projection of 1,450 persons (rounded) is used to evaluate community facilities impacts discussed hereinafter.

Fire Protection and Emergency Medical Services

The UFD would continue to provide fire protection and ambulance/EMS to the Subject Property following development.

Per planning standards published in the *Development Impact Assessment Handbook* (ULI, 1994),[34] the recommended guidelines/service levels for fire protection services are estimated at 1.65 fire personnel per 1,000 population, 0.2 vehicles per 1,000 population and 250 SF of facilities per 1,000 population. Per the methodology presented in Appendix I of the *Development Impact Assessment Handbook* (ULI, 1994), the factors used are divided between resident population (75% of the associated impact) and workforce population (25% of the associated impact) to assess impacts on fire protection services in mixed-use developments. With an anticipated projected residential population of 1,450 and approximately 4,100 new, direct employees (not including Coliseum employees) at Full Build-Out, based on the

[33] The Rutgers Study does not contain any factors for rental studio units. Therefore, one-bedroom unit data were used. Also, since there is no multiplier for 4-bedroom units, a multiplier was derived based on the factor for three bedroom units (3.81 persons per three bedrooms, which produces a factor of 1.27 persons per bedroom). When applying this 1.27 factor to a 4-bedroom unit, the result is 5.08 persons per 4-bedroom unit.

[34] Burchell, Robert W., David Listokin, et al., *Development Impact Assessment Handbook,* Washington, D.C.: ULI - the Urban Land Institute. 1994

recommended guidelines/service levels for fire protection, the anticipated development would be expected to generate a need for the following under Phase I, Phase II and Full Build-Out.

Table 45 – Anticipated Demand on Fire Protection

	Phase I	Phase II	Full Build-Out
Personnel	2.49	1.00	3.49
Vehicles	0.30	0.12	0.42
Facility Space (SF)	376.94	152	528.94

As indicated above, at the time of Full Build-Out, based on the recommended guidelines, the anticipated development would be expected to generate the need for approximately three to four additional fire personnel, 0.42 additional vehicles and additional 529 SF of fire protection-related facility space. The potential need for additional personnel, vehicles and facility space does not represent a significant adverse impact to the resources of the UFD, which currently serves a population of approximately 25,000 residents and numerous major land uses.

The MFM Findings Statement evaluated the impacts on fire protection services for buildings up to 100 feet in height and determined that limiting building heights to those comparable to surrounding buildings would reduce impacts to firefighting capabilities. Therefore, since 1) the Applicant is requesting a modification of building heights of up to 100 feet, 2) the Proposed Action includes buildings that range between 20 feet and 100 feet, which is within the heights addressed in the MFM Findings Statement, and 3) since the buildings in the anticipated development would be no taller than buildings in the immediate area that exceed 100 feet in height (i.e., the Marriott Hotel [135 feet], RXR Plaza [175 feet], the Omni building [122 feet]), implementation of the Proposed Action is not anticipated to result in significant adverse impacts to fire protection services from the standpoint of building height.

Furthermore, the proposed buildings would be constructed to the latest New York State Building and Fire Code and would be equipped with sprinklers and fire alarms. Roadways internal to the Nassau Hub Innovation District would be compliant with regulations and standards required for firefighting equipment and emergency service vehicle access, and full vehicular circulation would be provided throughout the Subject Property. The Applicant is requesting an increase in height for the on-site parking garages, in part, to allow serve vehicles to access the ground floor. This would also permit access to emergency service vehicles at the ground floor level. Where accessibility is limited, such as in subgrade parking areas, sprinklers and other fire suppression measures would be installed.

With respect to emergency/ambulance services, as previously indicated, the NCPD provides primary EMS to the Subject Property through the NCPD EAB, and the UFD provides secondary emergency services. Per recommended guidelines/service levels published in the *Development Impact Assessment Handbook* (ULI, 1994), there are an

estimated 36.5 calls per 1,000 population per year, there would be an estimated need for 4.1 full time personnel per a population of 30,000 and an estimated need for one vehicle per a population of 30,000. Per the methodology presented in Appendix I of the *Development Impact Assessment Handbook* (ULI, 1994), the factors used are divided between resident population and workforce population to assess impacts on emergency (ambulance) services in mixed-use developments. With an anticipated projected residential population of 1,450 and approximately 4,100 new, direct employees (not including Coliseum employees), based on the recommended guidelines/services levels for emergency services, the anticipated development would be expected to generate the following under Phase I, Phase II and Full Build-Out.

Table 46 – Anticipated Demand on Emergency Services

	Phase I	Phase II	Full Build-Out
Calls	55.03	22.19	77.23
Full Time Personnel	0.21	0.08	0.29
Vehicles	0.05	0.02	0.07

As indicated above, at the time of Full Build-Out, the anticipated development would be expected to generate approximately 77 additional calls, annually, the need for 0.29 full time personnel and the need for 0.07 additional vehicles. The additional calls and the potential need for additional personnel and vehicles does not represent a significant adverse impact to both the resources of the NCPD EAB and the UFD, which currently serve numerous major land uses in the Uniondale area, with building heights up to 175 feet. Also, as noted above, the Nassau Coliseum provides its own ambulance service during events, and is expected to continue such service upon redevelopment of the remainder of the Subject Property.

Based on the analysis conducted above, the impacts on emergency services (fire protection and emergency [ambulance] services) would be similar to that documented in the MFM Findings and would not exceed thresholds therein. Nevertheless, the Applicant will continue to consult with the UFD and the NCPD EAB throughout the development process regarding potential issues associated with fire protection and ambulance services.

Police Protection

As discussed above, police protection at the Subject Property is and will continue to be provided by the NCPD – Third Precinct.

Upon redevelopment there would be a strategic approach to safety and security in the Nassau Hub Innovation District, thereby minimizing impacts to the NCPD. Nassau Coliseum already coordinates with the NCPD as well as provides its own security for arena events. While it is anticipated that the individual tenants on the Subject Property (e.g., residential, entertainment retail, restaurants, hotel,) would

establish security staffing and protocols specific to their needs, the Applicant would also implement a development-wide security plan for the Nassau Hub Innovation District. The Nassau Coliseum would continue to provide its own security during events.

Per planning standards/service levels published in the *Development Impact Assessment Handbook* (ULI, 1994), the anticipated need for police protection services is estimated at two police personnel per 1,000 population, 0.6 vehicles per 1,000 population and 200 SF of facilities per 1,000 population. Using the same methodology and resident/employee figures as above, based on these recommended guidelines/services levels, the anticipated development would generate the need for the following under Phase I, Phase II and Full Build-Out.

Table 47 – Anticipated Demand on Police Services

	Phase I	Phase II	Full Build-Out
Personnel	3.01	1.22	4.23
Vehicles	0.90	0.36	1.25
Facility Space (SF)	301.55	121.6	423.15

At the time of Full Build-Out, the anticipated development could be expected to generate the need for approximately four police personnel, just over one additional vehicle and 423 SF of police protection-related facility space. The potential need for additional personnel, vehicles and facility space is not expected to have a significant adverse impact on the NCPD – Third Precinct, especially considering the on-site safety and security measures, discussed above, to be incorporated into the anticipated development.

As with fire protection and emergency (ambulance) services, based on the analysis conducted above, the impacts on police protection would be similar to those documented in the MFM Findings and would not exceed thresholds therein. Nevertheless, the Applicant will continue to consult with the NCPD throughout the development process to address potential issues related to police protection.

Educational Facilities

The residential space at Nassau Hub is expected to create a new forward-thinking option to house an emerging workforce on Long Island, helping to fulfill the goal of attracting new talent to Nassau County and creating a community that will enable people of varying ages and economic backgrounds to remain here for every phase of their lives. Therefore, the Applicant is proposing a combination of traditional multifamily units and co-living units, as described in Section 1.2 and in the *Population Projection* subsection, above. The anticipated housing types within the development are expected to be more attractive to young professionals, either without children or with very young children, including people associated with the university, medical school, research facilities, etc., as well as empty nesters.

As a result of the type of residential product anticipated to be offered within the Nassau Hub Innovation District, the anticipated resident population would not be expected to include a large number of school-aged children.

To estimate the number of school-aged children, multipliers were developed most recently in 2019 by the Real Estate Institute (REI) at Stony Brook University (the "REI at Stony Brook Study").[35] A brief description of the methodology of the REI Study is discussed below.

The 2019 REI at Stony Brook Study examined school-aged children data for 14 market-rate multifamily apartment complexes constructed between 2004 and 2018 throughout Long Island, containing 200 or more dwelling units. These apartment complexes are distributed throughout 10 school districts in Nassau and Suffolk Counties. These newer developments are of a generally similar product to that contemplated by the Applicant. The results of the REI at Stony Brook Study found an average of 0.09 student per unit among the approximately 4,000 apartment units included in the study.

When applying the 2019 REI multiplier of 0.09 to the 500 units, the anticipated development would generate an estimated 45 public school-aged children.

As part of the environmental review process for the MFM District the Uniondale UFSD raised concerns about impacts of students generated from development of the subject property and the effects that could result if the actual school-aged children generation from development of the subject property were greater than the estimates. In order to address these issues, the Applicant is currently working with the Uniondale UFSD on an agreement. The agreement would be two-part: an annual payment-in-lieu-of-taxes (PILOT) to the taxing jurisdictions, including the School District; and Applicant/Developer compensation to cover the potential revenue shortfall in a given school year resulting from the difference between the projected and actual numbers of school-aged children generated by the development.

Although a final agreement has not yet been reached between the parties, the concept is as follows:

- A total number of projected school-aged children would be established, based on the environmental review of the Proposed Action (i.e., 45);
- An annual audit would be conducted after the completion and occupancy of the residential units to count the actual number of school-aged children generated;
- The cost of education per pupil would be mutually determined based on a specific New York State Education Department (NYSED) factor and this factor would be applied to the number of school-aged children generated and reviewed in the context of the last year's School District PILOT payment made by the Applicant/Developer; and

[35] *Market Rate Apartment School Aged Children Study*, Real Estate Institute at Stony Brook University College of Business (April 2019).

› If the school costs exceed the School District PILOT payment, the Applicant/Developer would pay the difference, up to a capped figure, which would be mutually determined.

Based on the foregoing analysis, the type of residential units anticipated would attract a population that is not expected to generate a substantial number of school-aged children. However, an agreement between the Applicant and the Uniondale UFSD to provide compensation should the projections of school-aged children be lower than the actual audited number of students would minimize the potential impact to the Uniondale UFSD, consistent with the MFM Findings Statement. The Applicant will continue to consult with the Uniondale UFSD throughout the overall development process with respect to educational issues and resources.

Additionally, the proximity of the Nassau Hub Innovation District to institutions of higher education, including Hofstra University, the Hofstra Medical School, NCC and Adelphi University, including its School of Nursing, is expected to have a synergistic effect, bringing students and researchers to the R&D facilities and other amenities (e.g., restaurants, retail and entertainment facilities) on the Subject Property and at the adjacent MSKCC facility and offering a place for interaction, collaboration and cooperation amongst professionals in various fields, including life sciences.

Solid Waste (Collection and Disposal)

As indicated above, solid waste generated by the Nassau Coliseum is carted off-site via private carter to Covanta. It is expected that solid waste would continue to be disposed of at Covanta. The estimated quantity of solid waste that would be generated at the Subject Property at the completion of Phase I is shown in the table below.

Table 48 – Projected Solid Waste Generation at Completion of Phase I

Land Use	Area (sf)	Units	Solid Waste Rate	Total Solid Waste Generation (lbs/day)
General Office	148,000		1 lb/100 SF/day	1,480 lbs/day
R&D	188,000		1 lb/100 SF/day	1,880 lbs/day
Hotel	186,121	260 keys	3.0 lbs/room/day	780 lbs/day
Conf/Mtg Space	75,000	3,000 occ	3.22 lbs/person/day	9,660 lbs/day
Restaurant	60,000	2,000 seats*	2.0 lbs/meal/day	24,000 lbs/day
Entertainment Retail	110,000		13 lbs/1,000 SF/day	1,430 lbs/day
Multiplex Cinema	46,000	600 seats	13 lbs/1,000 SF/day	598 lbs/day
Theater/Performing Arts Venue	57,000	1,000 seats	13 lbs/1,000 SF/day	741 lbs/day
Residential	625,000	1,450 residents	3.5 lbs./capita**	5,075 lbs/day
Total Solid Waste				**45,644 lbs/day**

Notes:
*Assumes six meals per 2,000 seats of sit-down restaurant space.
**For total household solid waste generation.
Source: Office, Hotel, Residential, Restaurant, Retail, Cinema, and Theater/Performing Arts use: Salvato, J. (2003). Solid Waste Management. Environmental Engineering (5th Edition), Conference/Meeting Space: Jeanne F. Becker and Associates, Inc. West Cook County Solid Waste Needs Assessment (June 1988)

At the completion of Phase I, total solid waste generation at the Subject Property (excluding the Nassau Coliseum) would be approximately 45,644 lbs/day.

Subsequently, Phase II would add approximately 614,000 SF of office space (including 252,000 SF of small office and 362,000 SF of research and development), 515,879 SF of hotel space (equating to 590 keys), 100,000 SF of conference/meeting space, and 40,000 SF of entertainment retail space. Based on the same generation rates as indicated in Table 46, the Phase II improvements would produce an additional 21,310 lbs/day. The additional solid waste generation generated by the Phase II improvements, by use, is detailed in Table 49.

Table 49 – Additional Solid Waste Generation of Phase II Improvements

Land Use	Area (sf)	Units	Solid Waste Rate	Total Solid Waste Generation (lbs/day)
General Office	252,000		1 lb/100 SF/day	2,520 lbs/day
R&D	362,000		1 lb/100 SF/day	3,620 lbs/day
Hotel	515,879	590 keys	3 lbs/room/day	1,770 lbs/day
Conf/Mtg Space	100,000	4,000 occ	3.22 lbs/person/day	12,880 lbs/day
Entertainment Retail	40,000		13 lbs/1,000 SF/day	520 lbs/day
Totals	**1,269,879**			**21,310 lbs/day**

Notes:
*Assumes six meals per 2,000 seats of sit-down restaurant space.
Sources: Office, Hotel, Restaurant, Retail, Cinema, and Theater/Performing Arts use: Salvato, J. (2003). Solid Waste Management. Environmental Engineering (5th Edition)
Conference/Meeting Space: Jeanne F. Becker and Associates, Inc. West Cook County Solid Waste Needs Assessment (June 1988)

The table below provides a summary of the projected solid waste generation at Full Build-Out (Phase I plus Phase II).

Table 50 – Projected Solid Waste Generation at Full Build-Out

Land Use	Area (sf)	Units	Solid Waste Rate	Total Solid Waste Generation (lbs/day)
General Office	400,000		1 lb/100 SF/day	4,000 lbs/day
R&D	550,000		1 lb/100 SF/day	5,500 lbs/day
Hotel	702,000	850 keys	3 lbs/person/day	2,550 lbs/day
Conf/Mtg Space	175,000	7,000 occ	3.22 lbs/person/day	22,540 lbs/day
Restaurant	60,000	2,000 seats	2 lbs/meal/day	24,000 lbs/day
Entertainment Retail	150,000		13 lbs/1,000 SF/day	1,950 lbs/day
Multiplex Cinema	46,000	600 seats	13 lbs/1,000 SF/day	598 lbs/day
Theater/Performing Arts Venue	57,000	1,000 seats	13 lbs/1,000 SF/day	741 lbs/day
Residential	625,000	1,450 residents	3.5 lbs/capita**	5,075 lbs/day
Totals	**2,765,000**			**66,954 lbs/day**

Notes:
*Assumes six meals per 2,000 seats of sit-down restaurant space.
**For total household solid waste generation.
Sources: Office, Hotel, Residential, Restaurant, Retail, Cinema, and Theater/Performing Arts use: Salvato, J. (2003). Solid Waste Management. *Environmental Engineering* (5th Edition), Conference/Meeting Space: Jeanne F. Becker and Associates, Inc. West Cook County Solid Waste Needs Assessment (June 1988)

Based upon this estimate, the anticipated development would generate approximately 66,954 lbs/day of solid waste at 100 percent occupancy. On-site collection of solid waste is anticipated to occur within loading and service areas to be located behind buildings and within the ground floor of parking structures, throughout the Subject Property. It is expected that solid waste generated on the Subject Property during operation would be collected by a licensed private carter and disposed at Covanta. Recycling bins would be implemented throughout the Subject Property to encourage recycling by visitors and residents. Individual tenants on the property are also expected to recycle materials in accordance with Town requirements. It is expected that recycled items generated on the Subject Property during operation would be collected by a licensed private carter and disposed at Covanta, or similar licensed recycling facility**.** Accordingly, there would be no significant adverse impact on solid waste management plans or objectives.

Moreover, as the anticipated development would not exceed the density examined in the FGEIS and MFM Findings Statement and no significant solid waste impacts were identified therein, the anticipated development would be consistent with the Findings Statement, which found that impacts to community facilities/providers (including solid waste) would be limited to those that can be feasibly mitigated.

3.8.3 Proposed Mitigation

No significant adverse impacts to community facilities and services have been identified. Moreover, the Applicant has incorporated measures into the project to minimize potential significant adverse impacts to community service providers, as follows:

- Limiting the density of development to a FAR of 1.6, consistent with the MFM Findings Statement.
- Limiting the heights of buildings to be no higher than 100 feet, as analyzed in the MFM Findings Statement, which notes that buildings should be limited to heights of existing buildings in the surrounding area. The 100-foot building height modification request is within the range of existing buildings within the Uniondale Fire District (e.g., Marriott Hotel (135 feet), The Omni Building (122 feet), RXR Plaza (175 feet), Hofstra Residence Halls (170 feet).
- Ensuring that internal roadways are constructed to be compliant with relevant width requirements and standards for firefighting equipment and emergency service vehicle access.
- Assuring all buildings would be accessible to emergency service providers, and, where accessibility is limited, such as in subgrade parking areas, installing sprinklers and other fire suppression measures.
- Establishing security staffing and protocols by individual tenants on the Subject Property (e.g., residential, entertainment retail, restaurants, hotel,) specific to their needs.
- Implementing a development-wide security plan.

› Agreement with the Uniondale UFSD regarding compensation for additional school-aged children if the actual number exceeds the projected number.

3.9 Aesthetic Resources

The MFM Findings Statement, which evaluated a mixed-use development with buildings heights up to 450 feet, found that tall tower-like-buildings would not enhance the pedestrian environment nor complement nearby buildings and uses. Additionally, it was found that the very tall towers within the proposed mixed-use development analyzed under the GEIS would negatively affect main ground level public spaces and streets by solar and physical elements. However, through the implementation of the MFM District building heights are required to be lower in height, comparable to surrounding buildings in the area. Furthermore, design guidelines that were noted in the Findings Statement to ensure future development would remain visually and aesthetically compatible with existing development in the surrounding neighborhood were ultimately codified in the MFM District.

As there are some differences between the Applicant's anticipated program and the program analyzed in the FGEIS and document in the MFM Findings Statement, the Proposed Action's consistency with the conclusions from the MFM Findings is evaluated below.

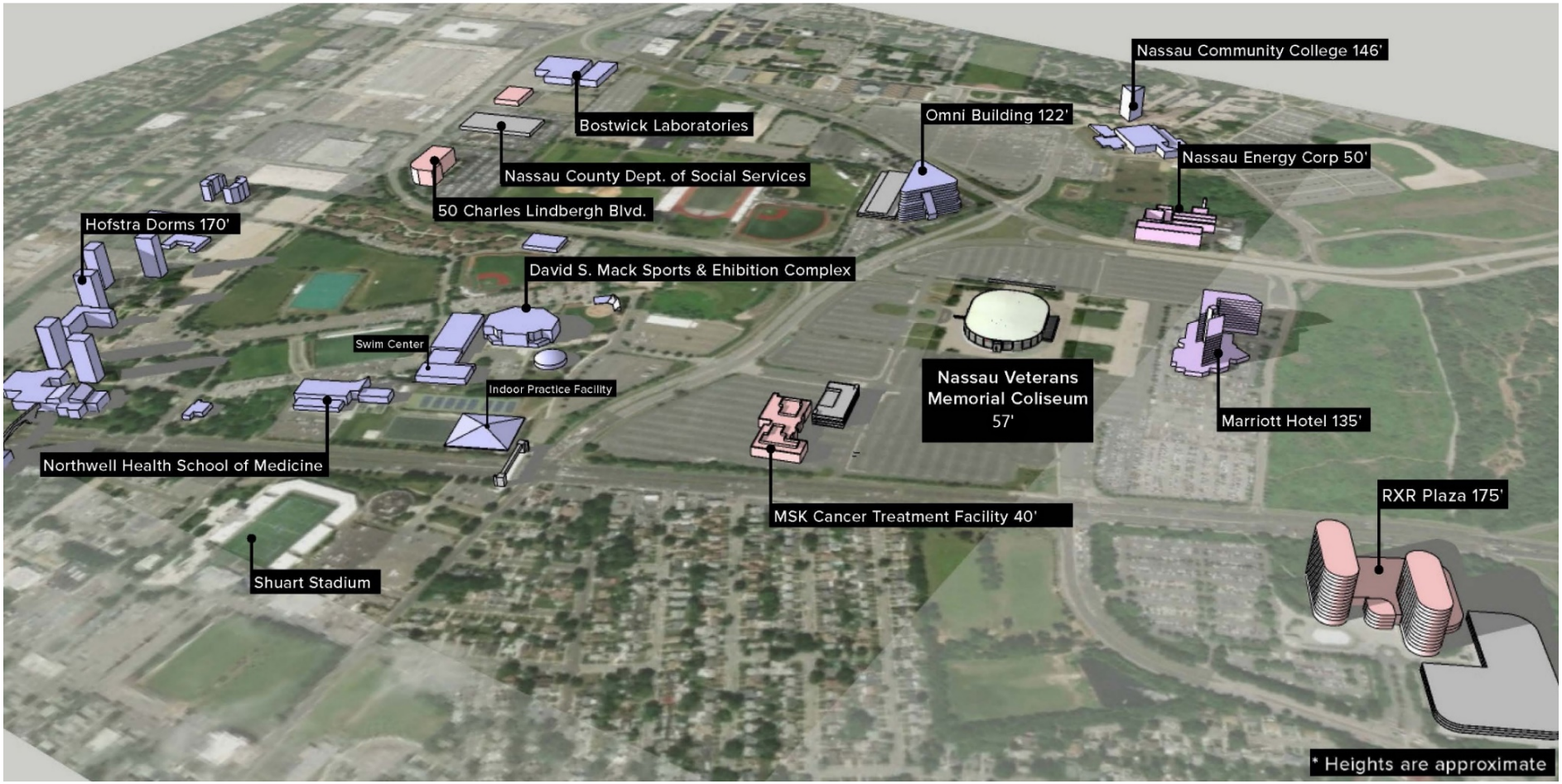
3.9.1 Existing Conditions

The visual qualities of a site in relation to its surroundings are a major contributor in defining the character of a community. The height, mass and architectural treatment of buildings and their relative visibility within an overall landscape setting are also significant components of community character. When viewing the Nassau Coliseum and its immediate surroundings, the defining character is of a recently renovated building set in a sea of asphalt. While the building itself has been upgraded architecturally, the overall character of the site is not visually appealing, as there is little vegetation and the site is mostly composed of pavement. The edges of the Subject Property are not clearly defined and lack clearly defined gateways. Even though people live, work and stay within walking distance of the Coliseum, during the day there is virtually no visible human activity around the site. Additionally, as the Subject Property is predominantly asphalt, the lack of shelter and shade exposes the land to naturally occurring elements.

The Subject Property is visible to a large number of viewers as it is located along several well-traveled roadways that carry many vehicles to and from the area (as well as within the study area). Specifically, the Subject Property is visible from the south along Hempstead Turnpike; from the west along Earle Ovington Boulevard; from the north along Charles Lindbergh Boulevard; and from the east along James Doolittle Boulevard. Due to its generally flat topography, attributable to the previous airfield use and lack of intervening buildings, structures or landscaping that would obscure it, the Nassau Coliseum and parking fields are highly visible from the adjacent roadways. The Subject Property can also be seen by a large number of visitors to the area and from the prominent buildings and facilities in the area, including, but not limited to, MSKCC, various portions of Nassau Community College, the Omni office building, Hofstra University, the Marriott Hotel, RXR Plaza and the businesses along the south side of Hempstead Turnpike.

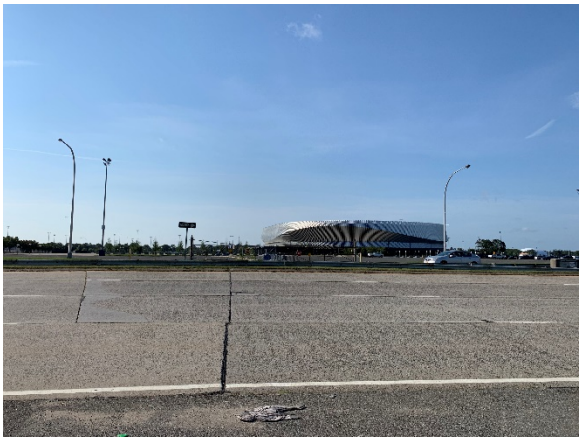
The overall visual character of the surrounding area is diverse. It is defined more by the major land uses in the area, rather than by its natural features, with the exception of the nearby Francis Purcell Preserve. Overall, the visually defining characteristics of the area are its flat topography, vast open parking areas and the tall buildings which dot the landscape, as shown below.

As seen below, the area surrounding the Subject Property contains a number of tall buildings ranging in heights from 122 feet (Omni Building) to 170 feet (Hofstra Residence Halls) and 175 feet (RXR Plaza) that are taller than what is permitted in the MFM District. The following depicts, among other things, some of the buildings surrounding the Subject Property and their heights as compared to the existing Nassau Coliseum (57 feet). Additional discussion of the individual buildings is provided below.


Nassau Community College 146'
Bostwick Laboratories
Omni Building 122'
Nassau County Dept. of Social Services
Nassau Energy Corp 50'
50 Charles Lindbergh Blvd.
Hofstra Dorms 170'
David S. Mack Sports & Ehibition Complex
Swim Center
Nassau Veterans Memorial Coliseum 57'
Indoor Practice Facility
Marriott Hotel 135'
Northwell Health School of Medicine
MSK Cancer Treatment Facility 40'
RXR Plaza 175'
Shuart Stadium
* Heights are approximate

View from the intersection of Glenn Curtiss Boulevard and Hempstead Turnpike along the southern boundary of the subject property, facing north.

View from the intersection of Earle Ovington Boulevard (Uniondale Avenue) and Hempstead Turnpike along the southwestern boundary of the subject property, facing northeast.



View from the northern boundary of the subject property from Charles Lindbergh Boulevard, facing south.

View from the adjacent Long Island Marriott Property from the eastern boundary of the subject property, facing west.

As shown in the photographs above, the mostly uninterrupted, expansive viewsheds from the major public roadways and adjacent uses in the area, as described above, define the visual character of this area. Views of the Subject Property consist of a vast underutilized parking fields with scattered internal landscaping associated with the Nassau Coliseum. The newly renovated Nassau Coliseum with modern façade is situated within a minimally landscaped plaza in the middle of the 71.6±-acre Subject Property. Aside from the Nassau Coliseum building, the most prominent visual elements are the expansive parking fields, light poles concrete medians and parking toll booths surrounding Nassau Coliseum. Trees and other landscaping along with grassy areas line much of the Hempstead Turnpike frontage, partly obscure the Subject Property from Hempstead Turnpike, but provide minimal relief from views of the vast asphalt parking fields.

There is no strong sense of a particular visual character in the area. The architectural styles vary considerably among the structures, as the area was developed throughout the last century. Traditional, one-story brick military buildings, airplane hangars, modern office buildings, institutional-style educational buildings, one- and-

two-story single-family residences of vernacular style and warehouse-style office/industrial facilities are among the various architectural styles that combine to form the mixed visual character of the study area.

The absence of strong streetscape elements along the major roadways in the area contributes to the lack of overall visual character. The individual land uses on and near the Subject Property are mostly focused inward and do not physically or visually blend with each other. The following illustrate the visual character of this area.

Hempstead Turnpike is a major expansive, four-lane roadway, south of the Subject Property that provides access for large numbers of passenger and commercial vehicles, heading east to west (right). Within the quarter-mile radius, the south side of Hempstead Turnpike consists of Hofstra University west of Uniondale Avenue and buildings fronting the roadway with residential uses beyond, east of Uniondale Avenue. The area along Hempstead Turnpike east of Uniondale Avenue consists of one-to-two-story non-descript commercial establishments along the south side of Hempstead Turnpike. The streetscape along Hempstead Turnpike consists of minimal vegetation, sidewalks on both sides of the roadway, light fixtures, utility wires and traffic signals, crosswalks and wayfinding signage. The majority of the businesses include parking areas in front of the storefronts off Hempstead Turnpike. East of Glenn Curtiss Boulevard is RXR Plaza (left) which consists of twin 15-story buildings with reflective glass facades. These two buildings, along with the 10-story Omni office building, with its distinctive façade (shown and described below), the 11-story Marriott Hotel, located adjacent to the Subject Property, and the Hofstra pedestrian bridge (unispan) (right) across Hempstead Turnpike at

Earle Ovington Boulevard (Uniondale Avenue) comprise the most prominent visual features within the immediate area surrounding the Subject Property, and can be seen from miles away.

Earle Ovington Boulevard (right) bounds the Subject Property to the west and is a regularly travelled, six-lane roadway (three lanes in each direction) connecting travelers from Hempstead Turnpike to Hofstra University, Nassau Community College and Museum Row. The streetscape along Earle Ovington Boulevard consists of light fixtures, minimal vegetation, traffic signals, utility wires, crosswalks and sidewalks on both sides of the roadway, as shown in the photograph above. West of Earle Ovington Boulevard is Hofstra University, which is set back from the roadway with a vegetated buffer concealing the majority of the campus from the roadway and the 10-story Omni office building (left) with associated parking garages and vegetation. This office building is prominent in the surrounding area of the Subject Property due to its height and distinct glass exterior façade. The view looking east from Earle Ovington Boulevard is of the vast, mostly barren parking lots surrounding the Subject Property with only scattered vegetation and light poles along with the newly renovated, modern Nassau Coliseum is easily seen.

The 11-story Marriott Hotel (right), with RXR Plaza at the right of the hotel, is visible beyond the parking lots and present a hard, visual edge from this viewpoint. The hotel building, and associated parking areas have limited vegetation with dispersed trees outlining the property boundary along James Doolittle Boulevard and the boundary between the Subject Property.

Charles Lindbergh Boulevard is an eight-lane roadway bounding the Subject Property to the north. This roadway runs east to west connecting travelers from Merrick Road and the Meadowbrook Parkway from the east to Subject Property, Nassau Coliseum, Marriott Hotel, Nassau Community College, Museum Row and Hofstra University in the west. As depicted in the photograph (right), the streetscape along Charles Lindbergh Boulevard is nondescript, consisting of lighting fixtures, minimal vegetation, wayfinding signage and sidewalks on both sides of the roadway. The Coliseum is visible in the distance at the center left of the photograph.

Additionally, the Subject Property is proximate to the Meadowbrook Parkway, a major roadway traversing east and north of the Subject Property. However, due to the vegetation along the shoulders of the Parkway and its elevation with respect to the Subject Property, the Coliseum is not visible from this roadway.

Overall, with the exception of the Coliseum building, the visual character of the site is undistinguished and unremarkable; it is, for the most part, a flat, large and barren asphalt parking lot. The same is true for the surrounding area. Due to the flat topography and abundance of surface parking lots, the distinguishing features in the landscape are stand-alone unrelated tall buildings, such as RXR Plaza and the Omni. There is no visual connection or unity amongst the major visual features in the immediate area, and the aesthetic characteristics of the site and surrounding area do not make the area vibrant and inviting.

3.9.2 Probable Impacts

The MFM Findings Statement indicates that with respect to the aesthetics and visual resources the density and heights, along with design guidelines for development would encourage development in the MFM District to be visually and aesthetically pleasing and compatible with existing development in the surrounding neighborhoods. As described below, the Nassau Hub Innovation District is being designed to be a visually exciting and dynamic community that will draw people from around the region. The heights of the proposed buildings would be comparable to the existing local low scale, as well as tall buildings within the surrounding community, eliminating the possibility of having very tall towers that would be out of context with the immediate area. Moreover, as noted in Section 3.4, *Zoning, Land Use and Community Character*, allowing for flexibility in building height across the Subject Property would provide opportunities for taller buildings to be

situated at strategic locations, such as at the gateways into the Innovation District, at internal intersections and proximate to taller buildings located off-site to provide distinct visual elements in the landscape. Allow for differing elevations at the site would enhance the visual and aesthetic interest. Additionally, consistent with the Findings, the street design parameters and connections would aid in traffic flow and distribution and create a spatial character and development pattern similar to those of the surrounding neighborhoods. Also, as discussed below, the design guidelines prepared by the Applicant provide for the incorporation of open and green spaces throughout the development, both at ground level and over parking garages. A discussion of design standards and guidelines is followed by a description and illustrations of how these principles would be applied to the development contemplated under the CMP.

Design Standards and Guidelines

While the proposed development is in the preliminary approval phase, it is not possible to determine specific tenancies nor specific project designs. However, the Applicant has prepared Design Standards and Guidelines and has provided illustrative examples that are intended to address site plans, building plans, circulation plans and overall landscape design for the Subject Property, pursuant to the requirements of the MFM District.

The Design Standards and Guidelines will ensure that the overall development will be consistent in design, and will provide a high-quality, innovative, pedestrian-friendly environment. Specifically, the overall layout as well as the design standards and guidelines will encourage the appropriate location, arrangement and design of buildings, parking areas and parking structures, and open space and site amenities in order to promote quality site, building and landscape design and to seamlessly integrate the architecture, landscape architecture and streetscape.

Per the MFM District, the design guidelines address various aspects of site plans, building plans, circulation plans and landscape design. Photographic examples, illustrating the types of design and materials contemplated for the Nassau Hub Innovation District are included herein. Through the implementation of these design principles, the aesthetic environment of the Subject Property would improve from its present unexceptional character into a vibrant, exciting and well-designed community where people will want to live, work and play. The following subsections discuss the various aspects of design for various features within the Nassau Hub Innovation District.

Districts

As indicated in Section 1.2 and discussed and illustrated in Section 3.4, the Subject Property has been informally divided into three internal districts; Sports and Entertainment, Town Center and Innovation Districts. These districts would have their own character, but with overlapping spheres, and landscaping and open/green spaces that reflect the transitions. The Sports and Entertainment District would include iconic, large-scale buildings with open indoor spaces that allow for flexible uses. Each section of this district would be designed to make a positive impression on the visitor, but the district would function as a whole with a cohesive look. The spaces would be open and connected, encouraging movement and excitement, and avoiding fragmentation.

The Town Center would be of a smaller scale, and, similar to the rest of the site, and would incorporate a modern feel through the design of the residential structures and the materiality. The scale of the spaces in this district would be reduced to create a sense of community and comfort. The architecture and design would foster activity and movement throughout the space. For instance, the ground floor retail would open up to the sidewalks.

The Innovation District is expected to have a modern look and be designed to spur creative thinking and engagement through the sharing of spaces. This district would include larger scale buildings than the Town Center. Indoor spaces do not need to be as large and open as in the Sports and Entertainment District, but they would ensure seamless connections that foster interaction.

Each of the three internal districts (see Figure 5) are discussed in regard to aesthetic resources in the context of the design guidelines.

Site Plans

Parking Lots and Parking Structures

Illustrative Precedent Photographs

Four types of parking are considered under the CMP: surface, structured, underground and street parking to accommodate different uses and volumes of traffic. Surface parking would be minimized or avoided and replaced with structured parking, where applicable. When surface parking is used, shade and shelter elements as well as permeable surfaces would be incorporated and maximized whenever possible. In addition, structured parking garages are expected to be wrapped with other land uses (such as retail), art installations or vegetation to reduce the presence of inactive frontages.

Parking that serves the Sports and Entertainment District would have explicit entry points that are easy to find and clearly indicated for the specific uses. Additionally, parking that serves private uses as in the Town Center District would be integrated within the architectural context, without standing out or drawing attention from the public.

Pedestrian access to all parking uses would be given special attention, through archiectural and landscape solutions with a focus on safety, convenience and seamless connections. When feasible, active uses on top of parkings structures would be introduced (e.g., apiary, greenhouse).

Access Driveways

Access driveway design for the Subject Property would consider and include the following: the integration with a street network capable of handling a great variety of volumes; the creation of a walkable environment; the prioritization of pedestrian and bike movement; and the slowing down of vehicular traffic.

Building Blocks

The general design of the Subject Property would encourage walkability by incorporating short block lengths. However, the Design Standards and Guidelines provide measures for minimizing the impacts of blocks that are longer in length. Those measures include:

- Introducing design elements in the middle of the façade that alter perceptions
- Breaking down the visual length of the block into distinctive pieces
- Introducing a diversity of uses
- Adding benches and street elements that provide resting points
- Creating visually and physically permeable façades with activity spillovers onto the sidewalk
- Inserting shade and shelter elements, such as street trees
- Designing a varied landscape.

Illustrative Precedent Photographs

Building Plans

The architectural look of the buildings would respond to the overarching innovation everywhere theme by creating a modern and functional aesthetic and feel through a number of design elements, such as building facades, specific design features, building materials, fenestration, treatment of exposed equipment and sustainability and efficiency features.

Building Facades

Permeability is an important aspect to the overall design of the buildings in the Subject Property. Specifically, the implementation of permeable design can be achieved through various strategies including open and transparent facades; active uses such as outdoor facing building lobbies, outdoor seating, and placement of ground floor retail in strategic locations; and ground floor design related to the streetscape. Building facades throughout the Subject Property would complement each other, however, are contemplated to be designed specific to the individual district. Specifically, the Sports and Entertainment District, building façades are contemplated to create a unique experience for the pedestrian by introducing large scale elements and incorporating wayfinding with innovative, interactive façades and outdoor screens. Building facades within the Town Center District are contemplated to include building facades that would vary in design to give a residential look while using structural or cladding systems, an array of window sizes and opaque façade panes when needed. Lastly, building facades within the Innovation District are contemplated to be functional and innovative while creating a connection between indoor and outdoor spaces through the use of transparent and permeable frontages. Below are illustrative images depicting the contemplated building facades for the internal districts.

Illustrative Precedent Photographs

Design Features

Design features for the Subject Property would encompass indoor and outdoor spaces to create a cohesive experience overall for the pedestrian. Specifically, ground floor designs would complement and respond to the corresponding streetscape to create a seamless transition. Green and active rooftops would be introduced throughout the site to utilize otherwise empty space. Additionally, building corners would be given special attention, promoting permeability and high activity uses. These areas would be prioritized when placing active uses, such as retail or food and beverage uses. Additionally, operable facades and outdoor seating would be implemented, where possible, as a way to engage the public realm. Lastly, iconic architecture would be strategically placed in each of the district gateways and main intersections. For example, higher building heights or special building features, such as green facades, sloped frontages or architectural canopies may be incorporated in these locations. Similar to building facades, design features for the three internal districts are being contemplated to enhance and complement each district seamlessly. Specifically, the Sports and Entertainment District would aim to activate space by connecting green rooftops with the streetscape, incorporating designs that allow for the connection of indoor and outdoor activities. The Town Center's design features are anticipated to create parking garage roofs that incorporate community spaces and streets that would prioritize pedestrian movement through retail on the ground level and allow for events. Lastly, the Innovation District would be designed to bring people together and foster interactions through private and semi-public rooftops to expand green space and the introduction of outdoor meeting areas.

Illustrative Precedent Photograph

Treatment of Exposed Equipment

Illustrative Precedent Photograph

Exposed mechanical equipment, light services and storage areas must be protected from the environment as well as given a surface treatment to integrate those areas within the overall district scheme. For example, screening and visual protections, including vegetation or design elements would be used to screen uses from the public's view. Mechanical buildings would be built consistently within each of the district's design schemes in terms of massing and materiality.

Building Materials and Methods

Throughout the entire Subject Property, innovative materials and construction techniques would be encouraged to include wood, masonry or steel materials. Timber construction, modular elements, smart bricks or integrated photovoltaic systems are examples of building techniques that are being contemplated. Building materials contemplated for the internal districts would be unique to each of the three districts. Specifically, the Sports and Entertainment District would have an industrial feel, which would be achieved through the use of different materials such as steel, glass and masonry materials as well as the introduction of large steel or timber structures to allow for open indoor spaces. Contemplated building materials to be incorporate through the anticipated design for the Town Center include wood and masonry materials to focus on creating a domestic feel through the use of small glass panes and shading elements. Additionally, the building materials contemplated for the Innovation District expect to consist of predominantly steel and glass with the additional of softer elements such as masonry, wood or stone. Illustrative photographs of contemplated building materials and facades are provided to the below.

Illustrative Precedent Photographs

Illustrative Precedent Photographs

Sustainability, Efficiency and Environment

Sustainable site and building strategies would be evaluated and incorporated, wherever possible, within the Subject Property. When selecting building materials, the following considerations, among others, would be taken: high durability; good recyclability; low energy and emissions in their production process and during construction; high-performance insulated glazing; reflective roof materials; and use of locally manufactured materials to reduce transportation carbon footprint and energy consumption.

Illustrative Precedent Photograph

All buildings within the Subject Property would, when possible, include: energy efficient lighting systems; lighting control systems; alternative power and fuel systems; programmable thermostats and energy controls; use of efficient mechanical electrical and plumbing systems; incorporation of rainwater collection systems and use of natural water purifying systems.

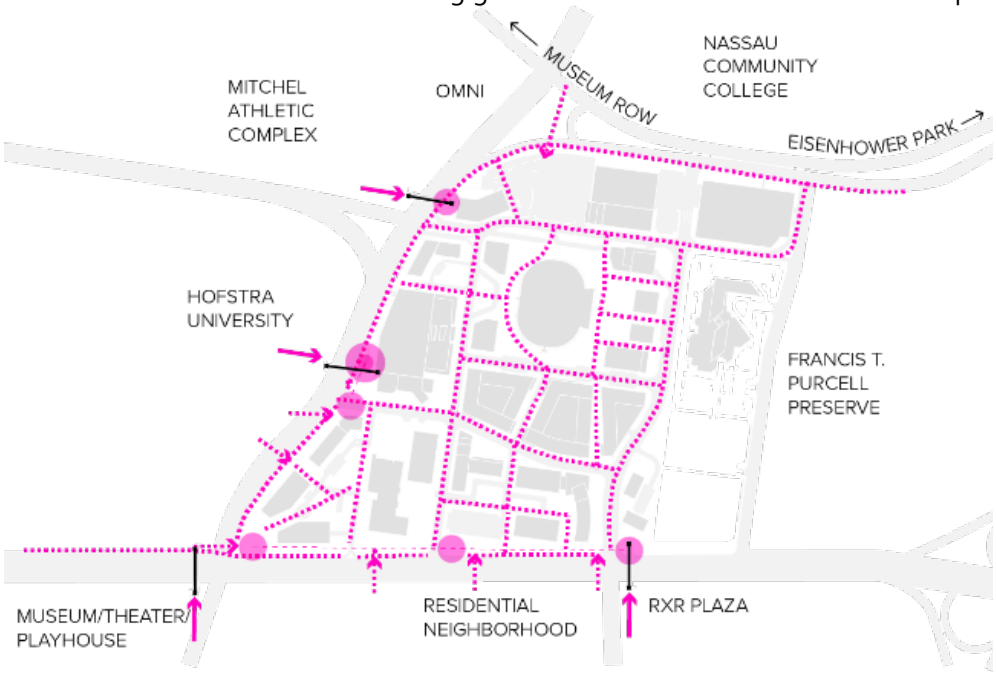
Further, the architectural design would, where possible, include natural passive elements that aim to reduce energy consumption and carbon emissions.

Circulation Plans

Circulation plans can take multiple forms, including pedestrian, bicycle and vehicular plans. The street hierarchy and streetscape elements are discussed in Section 3.4.2.

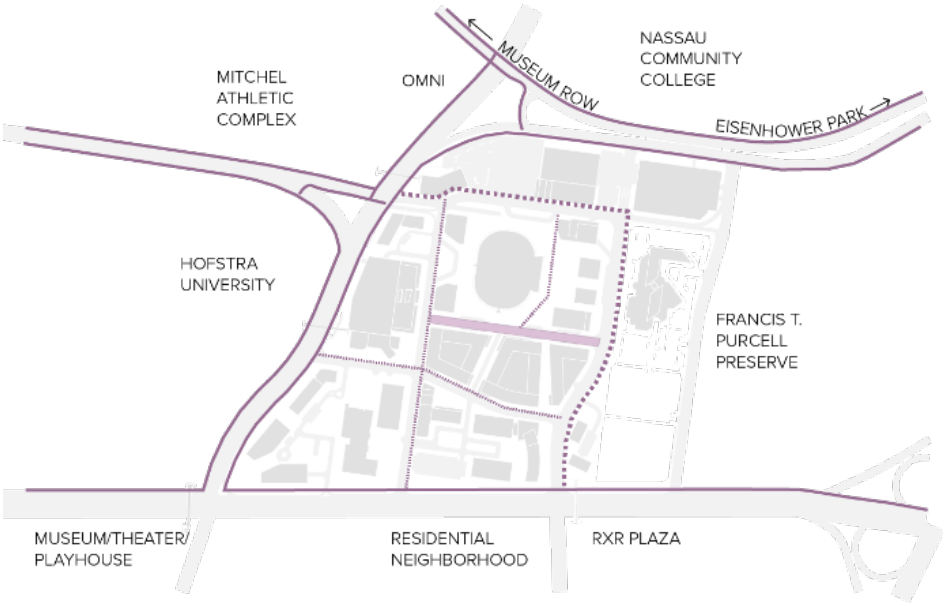
Pedestrian Walkways

The pedestrian realm would be safe, accessible, active and vibrant while connecting to the surrounding areas. The Design Standards and Guidelines provide tactical recommendations as how to achieve successful pedestrian walkways. Such tactics include: using green infrastructure to enhance streetscape and provide shade and shelter; creating permeable frontages and activating walkways with spill-out activities (e.g., sidewalk café, benches); maximizing the percentage of walkway segments with visual connections to interior building activity; ensuring seamless connections through crosswalks and bridges; designing intersections will all-accessible crosswalks; and including shared curbless streets that prioritize the pedestrian. Parks and plazas throughout the Subject Property would be part of the pedestrian circulation network while offering flexible connections separate from vehicular traffic. They would reflect the design scheme of each district by alternating between hard squares and pocket parks and incorporating landscape and water management systems throughout.



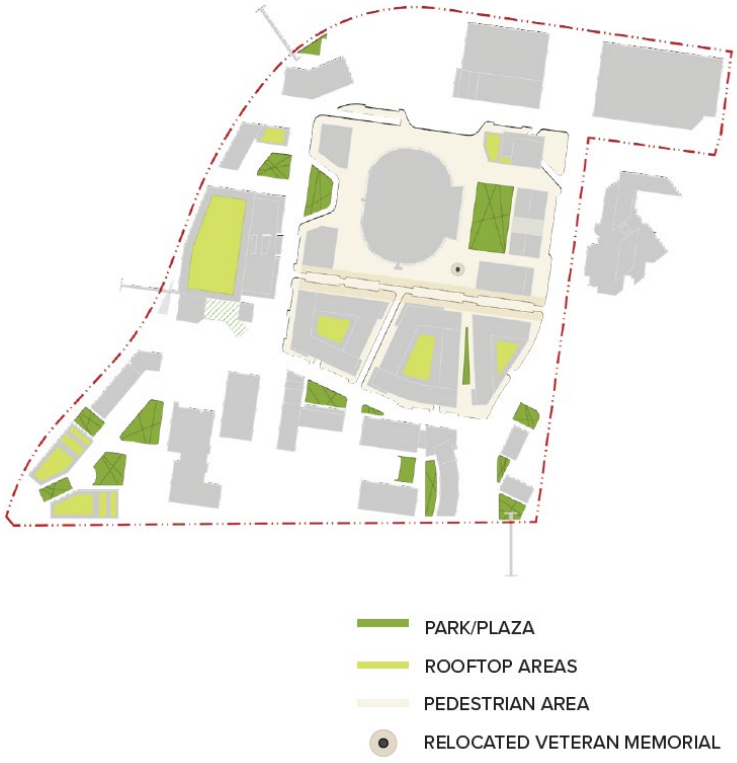
Bike Paths

The Subject Property would include protected bike lanes, where possible, and shared bike lanes in the remaining streets. Where possible, bike lanes and walkways throughout the Subject Property would be separated, and the internal system would be directly connected with the surrounding bike network.



Landscape Design

Outdoor Space and Activity Areas



Open space throughout the Subject Property would be used to weave the districts together. The open space strategy would be organized as a system that does not necessarily align with the street network but rather, designed to connect with the activated streetscape. Varying green features would be introduced across the districts such as pocket parks, street trees, extended planters and green rooftops. To varying degrees, the introduction of green features would support water management, provide shade and shelter, create a more comfortable environment and screen unpleasant visual features, such as mechanical equipment.

Access points to the Subject Property would be given a unique character such that each offers a memorable impression to visitors (e.g., use of pavement patterns, incorporation of iconic architecture, integration of special green elements or water features).

Illustrative Precedent Photograph

The character of the edges of the overall Nassau Hub Innovation District would be articulated by enhancing connections with surrounding activities and designing mitigation strategies, such as incorporating green screens, for areas of low activity.

Green rooftops are encouraged to be implemented across the Subject Property to either expand the public realm to higher levels or for integrated green infrastructure (including use of solar panels) with limited public access. Green roofs are expected to be included on several of the parking garages in the anticipated development. Illustrative examples of green rooftops are provided below.

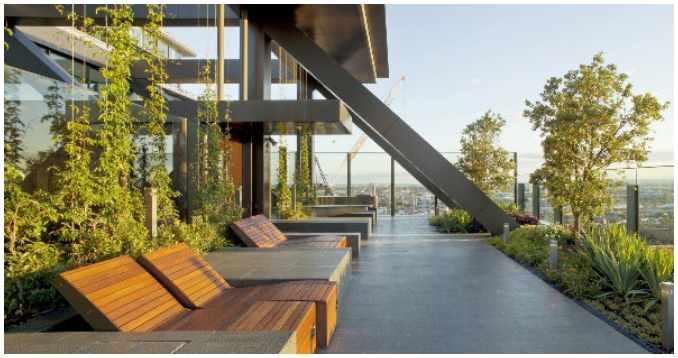
Illustrative Precedent Photographs

Small Green Spaces and Community Gathering Spaces

The three internal districts would contain small green spaces and community gathering spaces designed to fit the need and design of each district. Specifically, the Sports and Entertainment District would include large gathering spaces designed to accommodate crowds for events for concerts and festivals. Additionally, pop-up furniture or smart street elements would be used to address the need for flexibility of such spaces. Outdoor spaces contemplated for the Town Center District are to focus on community activities, like yoga classes or food markets. Shared streets would be designed to work as a plaza, hosting temporary events, like markets or community parities and green rooftops could be used to introduce a semi-private type of gathering space. Lastly, outdoor spaces contemplated for the Innovation District would be designed to spur the interactions of people by creating meeting points, crossed circulations and relaxing common areas which foster activity. Additionally, green rooftops can be incorporated to provide semi-public meeting

areas and outdoor spaces close to working areas. Below are illustrative images representing outdoor space techniques contemplated under the Proposed Action.

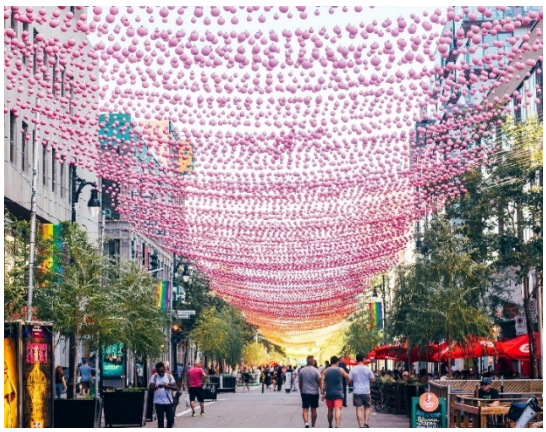
Illustrative Precedent Photographs



Art Installations

Special features, such as art installations, water features and pedestrian bridges would be incorporated in strategic locations.

Illustrative Precedent Photographs



Street and Open Space Furnishing, Lighting and Wayfinding

As required in the MFM District, street design would respond to the principle of Complete Streets, which would be applied by embracing the specific characteristics of the site.

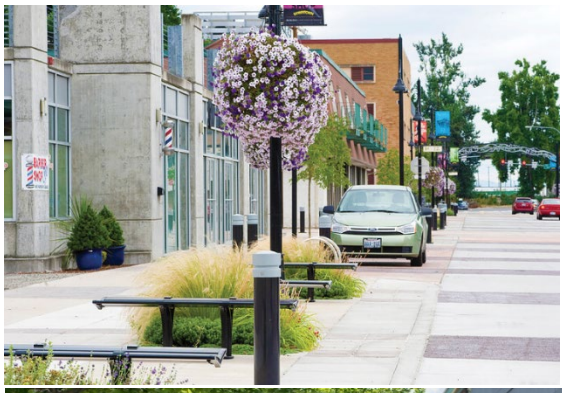
The CMP identifies three distinct street types, which are described and depicted in detail in Section 3.4.2:

Primary (Wide) Streets (80-foot road width): to include extended tree pits, a protected bike lane, raised medians and a frontage zone with ground floor uses.

Secondary (Narrow) Streets (60-foot road width): to include extended tree pits, street parking, a shared bike lane and more frontage devoted to active ground floor uses.

Shared Streets (60-foot road width): to include shared surface/curb less streets to prioritize pedestrian activity to allow for flexibility, extended tree pits and most frontage to be devoted to active uses. The design for shared streets should allow outdoor events through street closures.

Illustrative Precedent Photographs



Open space furnishing, lighting and wayfinding can draw from the innovation toolkit, incorporating smart applications within traditional elements. Examples of such smart applications include: interactive and responsive lighting; smart crosswalks; interactive kiosks; pop-up furniture; wayfinding apps; adaptive signals; and smart parking. A discussion of the design principles and how they are anticipated to be incorporated into the Nassau Hub Innovation District is provided in the analysis below.

Aesthetic/Visual Analysis

The Proposed Action would significantly improve the aesthetic quality of the vast, underutilized parking fields associated with the Nassau Coliseum with the mix of uses of varying, but cohesive architectural styles, building mass and height that is incorporated into the Nassau Hub Innovation District. As a result, views of the Subject Property internally and from surrounding areas would be altered. The current views of the Subject Property are expansive. Since the site is flat and devoid of substantial landscaping and buildings, except the Coliseum, one can see almost the entire 71.6±-acre site from any of the roadways and uses surrounding the Subject Property. After development there would be intermittent views of the Coliseum building from the surrounding roadways and existing facilities, as new buildings and landscaping, as well as a new street system are constructed throughout the Subject Property. Vast, mostly unused, parking areas would be eliminated and replaced with a visually cohesive mixed-use development compatible with the surrounding community with regard to building height and materials.

Although the views of the site from surrounding areas would substantially change (as the Nassau Coliseum is the only building sitting in an expansive parking lot), implementation of the Proposed Action would significantly improve the aesthetic conditions at the Subject Property and along the adjacent roadways. Specifically, views along Hempstead Turnpike, Earle Ovington Boulevard and Charles Lindbergh Boulevard would change. Although, there are no residences that are directly adjacent to the Subject Property, buffers would be designed to visually separate the Proposed Project from the surrounding roadways and uses.

Views from along Hempstead Turnpike looking north towards the Subject Property would change as the existing parking areas would be redeveloped with a mix of uses. Portions of the Innovation District and Town Center District (mostly office and hotels) would be directly visible on the north side of Hempstead Turnpike. The proposed development would be set back from the surrounding roadways with taller buildings strategically placed throughout the Subject Property to limit potential impacts on the neighboring uses along Hempstead Turnpike. As innovative, modern building materials will be used for the construction of the anticipated buildings, the mixed-use development will seamlessly fit visually into the existing commercial corridor that comprises Hempstead Turnpike and would be consistent with the newly renovated Nassau Coliseum visual aesthetic. The Town Center Introducing innovative, modern buildings on the Subject Project may serve as a catalyst for upgrading the appearance of commercial uses along Hempstead Turnpike.

Views along Earle Ovington Boulevard and Charles Lindbergh Boulevard in the vicinity of the Subject Property would also change as the current views consist of the newly renovated Nassau Coliseum and the surrounding parking fields. As one travels along these roadways, the Innovation District and Sports and Entertainment District

would be visible. Specifically, offices, hotels, mixed-use buildings and parking garages would be set back, but would be visible from these roadways, while the Nassau Coliseum would not appear as prominently as in the current condition. Views of the anticipated buildings on the Subject Property from Earle Ovington Boulevard would be broken up by softer elements such as water features and open spaces within the Innovative District. The Marriott Hotel would still be visible across the site due to its height.

The key to sustaining a mix of uses within the Nassau Hub Innovation District is to employ design control over the scale and form of the buildings regardless of use, and to provide a flexible design framework that would accommodate a wide range of buildings. Unlike the typical suburban development pattern where a separate "stand-alone" building form is the standard, the objective in the CMP is to create an environment with visual continuity and a user-friendly public realm. Development of the Nassau Hub Innovation District would create a sense of place and identity and connect all elements of the development.

Through implementation of the Design Standards and Guidelines, as detailed above, the Subject Property would embody the overarching theme of "Innovation Everywhere," and the guiding principles of the overall CMP would be to connect destinations, create a walkable environment, diversity and flexibility, community engagement and extended play. The Nassau Hub Innovation District would introduce a mix of uses, respect the height limit of 100 feet for all uses, create a diversity of building masses with higher buildings in strategic locations, incorporate active uses, and introduce structured and shared parking, where possible, reducing the expanse of surface parking fields. Additionally, the Design Guidelines provide a clear set of rules for proposed development that would advance a coherent vision under the MFM District. These Design Guidelines are intended to encourage elements that provide appropriate location, arrangement and design of buildings, parking areas and parking structures, open space and site amenities to promote quality site, building and landscape design. The MFM Design Guidelines have been integrated into the overall plan, as described and illustrated above. Therefore, proposed design elements conform with the MFM Design Guidelines and have been created to meet the goals set forth under those guidelines in regard to master plan elements for architectural, streetscape and landscape design to ensure an efficient development that is architecturally and visually vibrant.

As described above, in accordance with the contemplated development under the proposed CMP, the Subject Property would be informally divided into three internal districts, each having their own character as presented through the Design Standards and Guidelines. A series of architectural renderings prepared by CallisonRTKL illustrate the potential appearance of the three districts, based on the design elements outlined in the Design Standards and Guidelines, which are represented in the illustrative photographs incorporated above.

The Sports and Entertainment District would be centered around the Nassau Coliseum with large-scale, iconic buildings with open indoor spaces that allow for flexible uses. Additionally, this district would include engaging sculpture and seating, dedicated picnic space, and screens for games and movies, as shown in the illustrative rendering below.

Rendering of the contemplated Sports and Entertainment District, facing north.

The Town Center District, which generally comprises the multi-family residential buildings with ground floor retail and restaurants, south of the Nassau Coliseum, is contemplated to have a smaller scale, and a modern feel through the housing design and materials used. The design of this district is intended to create a sense of community and comfort through the reduced sizes of buildings and spaces. The concept of extended sidewalks to allow for spill out activities from retail stores and engaging installations between buildings is meant to foster activity and movement, as illustrated below. South of the residential buildings, this concept of smaller scale, modern buildings would continue, creating a sense of community as hotel and office buildings with associated parking would be introduced. With ample sidewalks connecting these buildings to the adjacent uses within the district, a sense of community and comfort would be carried throughout the entire district. Vegetation including street trees would be planted along the Hempstead Turnpike boundary of the Subject Property as well as throughout the parking areas and surrounding the office and hotel buildings.

Rendering of the contemplated Town Center District, facing northwest.

The Innovation District, located in the southwest portion of the Subject Property, would have a modern look and would be designed to spur creative thinking and encourage engagement through sharing of spaces. This district would include larger scale buildings with space for research and development that foster interaction and innovate thinking. Additionally, this district would have curated and engaging landscape, extended outdoor space providing seamless connections from buildings to the outdoors, space for office spill out and a rooftop farm, as shown in the illustrative rendering below.

Rendering of contemplated Innovation District, facing north.

As illustrated above, a structured parking garage proposed west of the Nassau Coliseum, is contemplated to be developed with a rooftop garden, apiary, greenhouse, event space along with photo-voltaic (solar) shade structures over parking spaces on the top level.

As outlined in the Design Standards and Guidelines, the parking structures contemplated under the CMP would include façades that soften views of the structures from the public as well as to allow for natural air circulation. The installation of vegetation on and around all parking structures would soften the appearance of the structures. These features would also conceal views of the parked cars and, when in use, their headlights.

The development contemplated under the CMP would also include the installation of street trees surrounding the perimeter of the Subject Property as well lining the internal roadways, which would enhance the overall site aesthetics. As previously indicated, there are currently some street streets lining the Subject Property along Hempstead Turnpike, with minimal trees and landscaping along the property frontages at Earle Ovington and Charles Lindbergh Boulevard and, as such, the inclusion of enhanced "edges" and landscaping along those roadways would soften the appearance of the contemplated development. Additionally, decorative lighting would be installed along the internal roadways and throughout the Subject Property. Proposed lighting would be downward shielded to prevent spill off on to adjacent properties. The illustration, below, provides a comprehensive overview of the anticipated overall development on the Subject Property.

Under the requested modifications of the MFM Zoning District, the maximum height for all residential and non-residential buildings is 100 feet. Hotels within the MFM are currently permitted to be up to 100 feet in height. While the request is to modify the zoning to allow the flexibility to have building heights up to 8 stories and 100 feet in height for non-residential, mixed-use commercial and residential buildings, it is anticipated that there would be a range in building heights (from 1 – 8 stories and up to 100 feet) within the development. As described in Section 3.4.2 and above, the flexibility in height would provide opportunities for taller buildings to be situated at strategic locations throughout the Subject Property. The addition of taller buildings would allow the Applicant to achieve the permitted FAR, while allowing the opportunity for more open space. Even at up to 8 stories and up to 100 feet, future buildings on the Subject Property would be lower in height than many of those in the surrounding area, as described and illustrated in Section 3.4.2.

Additionally, as described in Section 3.4.2, contemplated development under the CMP, calls for proposed modifications to increase the permitted height of parking structures would alleviate both a physical and visual impact related to activities (such as deliveries and refuse collection). In addition, the request for parking structure height modification includes the exclusion of rooftop green infrastructure, such as solar panels and greenhouses from determining the maximum permitted height, since these features would serve a community benefit.

Although it is proposed that certain buildings within the Nassau Hub Innovation District exceed the existing height limitations, the heights would be compatible with, and, actually lower than, several existing surrounding buildings. Additionally, taller buildings on the Subject Property would be strategically placed to be set back from surrounding roadways to alleviate potential visual impacts on sensitive receptors such as the residences south of the commercial corridor along Hempstead Turnpike, in the surrounding area as well as to create visual points of interest on the Subject Property. Therefore, the increased height of a number of buildings within the Nassau Hub Innovation District would not have a significant visual impact on the surrounding community.

The proposed design guidelines and standards proposed and discussed in detail above, have been developed in conformance with the design guidelines set forth in the MFM District. These design guidelines for the contemplated development under the proposed CMP allow for the Nassau Hub Innovation District to be visually and architecturally compatible with existing development in the surrounding area, while providing an aesthetically vibrant and exciting community with a true sense of place. As the Proposed Action is at the CMP phase and no buildings have been designed at this point, all future building design will be consistent with the design guidelines presented herein as well as those under the MFM District. While the visual character of the site would substantially change from the existing, unremarkable and visually devoid landscape (with the exception of the Coliseum building), the impacts to aesthetic resources would be positive.

3.9.3 Proposed Mitigation

As noted above, implementation of the Proposed Action would have a significantly positive impact on site and area visual resources. Since no significant adverse impacts have been identified, no mitigation is proposed. Notwithstanding same, the proposed building and site design incorporates elements that minimize or reduce the potential visual impacts of the Proposed Action, including, but not limited to:

- Building heights of the tallest buildings on the Subject Property would be lower in height than those in the surrounding area.
- Strategic location of taller buildings on the Subject Property.
- Installation of street trees around the Subject Property.
- Meeting and/or exceeding required setbacks from the surrounding roadways.
- The edges of the overall Nassau Hub Innovation District would be articulated by enhancing connections with surrounding activities and designing mitigation strategies, such as incorporating green screens.
- Wrapping parking structures with other land uses (e.g., retail), art installations or green/living wall systems.
- Incorporation of varied façades amongst the different internal districts.
- Strategic placement of open spaces, green spaces and other landscaping features to soften the appearance of the buildings and provide visual relief.
- Use of Complete Street concepts to provide vibrant and interactive streetscapes throughout the development.

3.10 Energy/Sustainability

The MFM Findings Statement, which evaluated a mixed-use development at a FAR of 1.6 (similar to that proposed by the Applicant) found that the MFM District Alternative contains sustainable design guidelines that require decreases in, among other things, energy demand and automobile usage, which would reduce energy consumption. As part of any application for development of a CMP, energy needs and the availability of supply would be identified, as noted in the Findings. Additionally, the MFM District requires that all development proposals include sustainable site and building practices regarding design, construction methods and post-construction operations and maintenance to decrease anticipated energy demand. The MFM Findings Statement notes that the legislative intent of the MFM District Alternative includes promoting, encouraging and achieving high quality sustainable development that preserves, protects and enhances the environmental, economic and human resources of the Town. Also, the density of development permitted within the MFM District limits impacts to energy and water resources, as well as other natural resources, and generates less waste than a larger development. Although there are some differences in the program analyzed in the FGEIS and that of the anticipated development under the proposed CMP, the density (FAR of 1.6) is the same. Therefore, the energy demands, are expected to be similar. Furthermore, as described in Section 3.4, *Zoning, Land Use and Community Character*, Section 3.9, *Aesthetic Resources*, and below, the inherent nature of the proposed mixed-use, walkable community, combined with innovative and sustainable design measures would ensure that the Proposed Action is consistent with the MFM Findings Statement with respect to energy and sustainability.

3.10.1 Existing Conditions

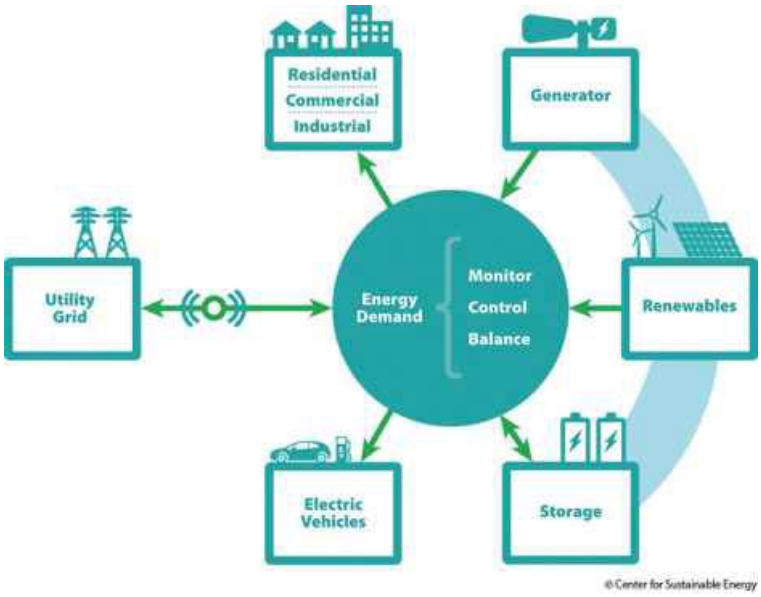
PSEG Long Island provides electricity to the existing Nassau Coliseum, including the surrounding parking lots. Additionally, National Grid provides natural gas to the Nassau Coliseum. The Nassau County Central Utility Plant, currently operated by Engie and located to the north of the Subject Property at 50 Charles Lindbergh Boulevard, supplies hot and chilled water to the Coliseum for use in heating and cooling. This facility, like other cogeneration plants, yields more energy and greater efficiencies from a given amount of fuel resulting in reduced environmental emissions than typical utility power generation facilities.

Since the renovation of the Nassau Coliseum, which was approved in 2015, sustainable fixtures have been implemented in the facility, such as waterless urinals, LED lights and all new windows and doors to provide improved thermal performance.

3.10.2 Proposed Impacts

Energy

The Nassau Hub Innovation District is developing underlying infrastructure that is both cutting edge and "future-proofed." Infrastructure design would be guided by an energy master plan, which would, in part, address use of renewable energy, reduction in water use and enabling digital/smart communities. This plan would be a guide for incorporating the vision of innovation everywhere and achieving energy and sustainability goals, such as ensuring that the Hub's energy grid will be environmentally sound, minimizing site-wide building energy use, decreasing reliance on traditional utilities and reducing the project's carbon footprint. A discussion of the energy master plan is included below.



The following thermal loads (excluding the Coliseum) were calculated for each of the proposed components for the project program. The total proposed energy to be consumed under the Proposed Action would be new energy to the Subject Property as the site currently contains parking areas for the Nassau Coliseum. The following thermal loads for domestic hot water, heating and cooling have been estimated for the contemplated development at Full Build-Out.

Table 51 – Projected Thermal Loads for Full Build-Out

Program Component	Total at Full Build Out	Domestic Hot Water (MBH)*	Heating (MBH)*	Cooling (Tons)
General Office Research & Development	400,000 SF 550,000 SF	4,000 5,500	13,000 17,875	1,333 1,833
Hotel	850 keys	28,080	24,570	1,755
Conference/Meeting Space	175,000 SF	3,500	7,000	700
Restaurants	60,000 SF (2,000 seats)	6,000	2,700	400
Entertainment Retail	150,000 SF	--	6,000	600
Multiplex Cinema	600 seats (46,000 SF)	--	1,610	307
Theater/Performing Arts Venue	1,000 seats (57,000 SF)	--	1,995	380
Residential	500 units (625,000 SF)	25,000	21,875	1,389
Total		**72,080 MBH**	**96,625 MBH**	**8,697 Tons**

*MBH = One thousand British Thermal Units/Hour

It is expected that the development contemplated under the CMP would receive electricity via connection to existing PSEG Long Island infrastructure and would receive natural gas via connection to existing National Grid infrastructure. Additionally, in concert with traditional energy providers, another energy source that may be used is the Engie Nassau County co-generation plant, which currently provides hot and chilled water to the Coliseum for cooling and heating purposes, as noted above. Renewable energy sources, such as solar photovoltaic panels are also contemplated for use on one or more of the parking garages. Therefore, it is contemplated that a combination of multiple energy sources would serve the Nassau Hub Innovation District.

Service availability for the projected load requirements has not yet been confirmed by PSEG Long Island and National Grid; however, consultations have commenced with these providers and will continue as the project progresses. The contemplated development would comply fully with the relevant energy conservation requirements specified in the New York State Building Code, the State Energy Conservation Construction Code, as well as the MFM District green site and building requirements, as described below and throughout this Expanded EA.

Sustainability

As outlined in the MFM Zoning Code and the MFM Findings Statement, all proposed CMPs must include sustainable site and building practices regarding design, construction methods, and post-construction operation and maintenance of a proposed project to decrease anticipated energy demand, water use, generation of

solid and liquid waste, stormwater runoff, and the use of private cars to protect and preserve natural resources, air quality and water supply of the Town of Hempstead. The proposed CMP's design guidelines indicate that sustainable site and building strategies would be incorporated into the design of the anticipated development. Incorporation of these sustainable measures in the project design and operation would assist in lowering the carbon footprint of the Subject Property. Specifically, the following would be considered for the construction materials to be used in the Nassau Hub Innovation District:

- High durability
- Good recyclability
- Low energy and emissions in their production process and during construction
- High efficiency and performance
- High efficiency thermal insulation
- High performance insulated glazing
- Reflecting roof materials
- Locally manufactured materials to reduce transportation carbon footprint and energy consumption
- Zero toxicity, including during production and construction

Additionally, as specified in the site design guidelines, all buildings, whenever possible, would:

- Implement energy efficient lighting systems
- Incorporate lighting control systems
- Include alternative power and fuel systems (solar, etc.)
- Include programmable thermostats and energy controls
- Use efficient mechanical electrical and plumbing systems
- Incorporate water conservation measures
- Include rainwater collecting systems
- Consider natural water purifying systems.

The architectural design would seek to incorporate natural passive elements that aim to reduce energy consumption and carbon emissions, including:

- Use of optimal solar orientation for openings
- Use of flexible shading elements
- Encouragement of natural ventilation systems
- Maximization of insulation in northern facing facades.

Further, as described in Section 3.4, *Zoning, Land Use and Community Character*, the parking garage located in the Innovative District (P1) is expected to include solar panels, a rooftop farm, apiary and green house along with a living wall system, bike

storage and ride share pickup/drop-off. Parking Garage P2 may also include the installation of solar photovoltaic panels.

Incorporating a combination of these measures throughout the design would leverage innovative green technology, minimize energy usage and limit carbon emissions.

Illustrative Precedent Photograph

In addition to the sustainable measures incorporated into the design guidelines for the contemplated development (see Section 3.9, *Aesthetic Resources*), other direct and indirect measures would be employed to conserve energy such as the incorporation of Complete Streets into the project design, as specified in the MFM District. This includes the provision of connected sidewalks to facilitate walking, and the provision of bicycle lanes and storage facilities to encourage biking. Use of alternate modes of transportation are discussed below.

The concept of the mixed-use, compact and walkable community, such as what is proposed, is expected to reduce energy consumption in and of itself. Some examples of mixed-use, walkable and sustainable communities on Long Island that have been developed or augmented include Farmingdale, Mineola, and Patchogue, among others. The concept of building such communities from scratch is new to Long Island, and several have been approved and are pending or under construction (e.g., Ronkonkoma Hub and Wyandanch Rising). According to Rabianski, et al. (2009),[36] mixed use development addresses the issue of sustainability as follows, "by integrating uses and higher density, developments may be able to achieve the same amount of usable space in a smaller footprint" (Page 16). Further, "in terms of the environment, while research on the direct relationship between walkability and greenhouse gas emissions from transportation is still nascent, there is evidence that walkability is related to decreased driving and increased walking and that CO2 emissions are linked to vehicle miles traveled," according to a 2012 Brookings Institution publication prepared by Christopher Leinberger entitled *Walk this Way: The Economic Promise of Walkable Places in Metropolitan Washington, DC*.[37] According to Leinberger, "encouraging walkable cities will reduce greenhouse gas

[36] Rabianski, Ph.D., Joseph S., et al. *Mixed-Use Development and Financial Feasibility: Part I – Economic and Financial Factors*, "Real Estate Issues"; 2009, Vol. 34 Issue 1, p11 (Published March 2009)

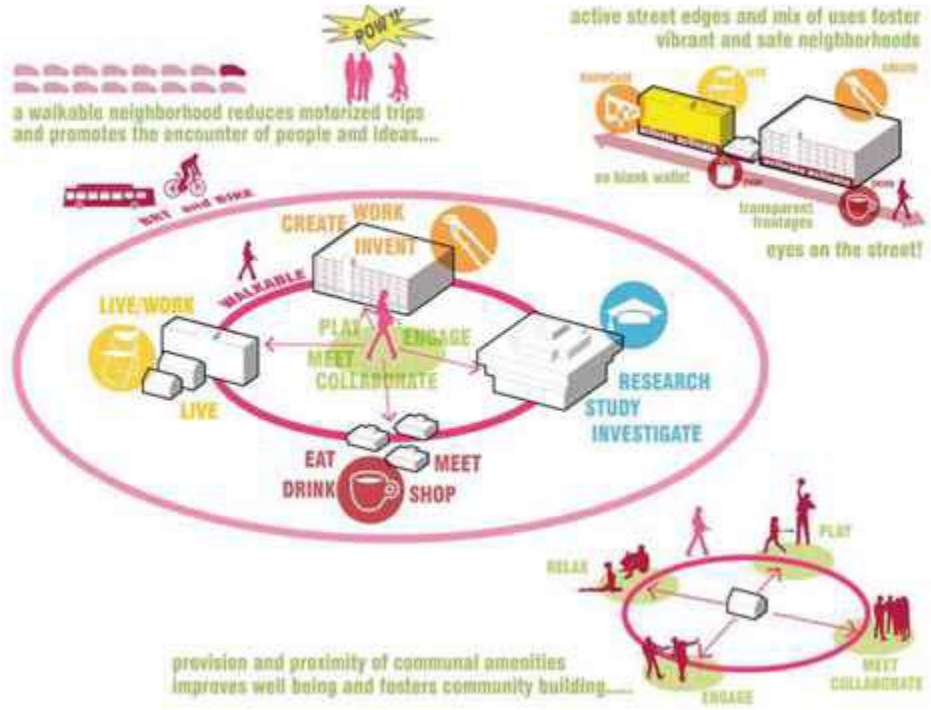
[37] Leinberger, Christopher B. and Mariela Alfonzo. *Walk this Way: The Economic Promise of Walkable Places in Metropolitan Washington, D.C.* Metropolitan Policy Program at Brookings. May 2012.

emissions by mitigating overall energy demand." A qualitative discussion of greenhouse gas emissions is included in Section 3.6, *Air Quality*, of this Expanded EA.

An article prepared by the Urban Land Institute, entitled *Land Use and Drive: The Role Compact Development Can Play in Reducing Greenhouse Gas Emissions* examined three recent studies – *Moving Cooler: Analysis of Transportation Strategies for Reducing Greenhouse Gas Emissions*, *Growing Cooler: The Evidence on Urban Development and Climate Change* and *Driving and the Built Environment: The Effects of Compact Development on Motorized Travel, Energy Use, and CO2 Emissions*. The article notes that,

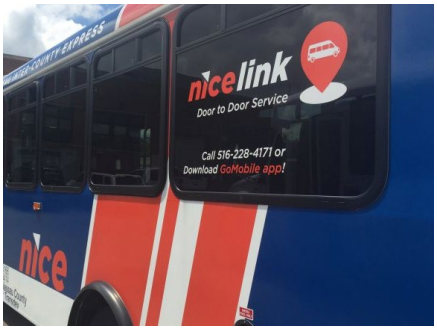
> *[t]here are many diverse reasons to pursue compact development outcomes. Convenient and conducive to healthy lifestyles, clustered development patterns help lower overall community infrastructure costs by pulling land uses closer together… Compact development can be built anywhere. It encompasses residential and commercial development and can be adapted to urban, suburban, and rural settings. Single-family houses, townhomes, and apartments all have a place in compact development. Employment centers are also important candidates for compact development.*

The three studies examined the specific questions of "do better land use choices pay off as a core strategy in the broader effort to reduce greenhouse gas emissions? How could the reduction in driving be measured? What was the extent of the reduction in driving—vehicle miles traveled (VMT)—and was it significant? And what does this reduction of VMT mean for the overall reduction in greenhouse gas emissions?" and provided quantifiable results. The conclusions from these studies show that as part of a larger mitigation strategy, which includes transitioning to cleaner energy, better vehicle efficiency and increased energy efficiency of buildings "compared to historically sprawling land use patterns, compact development reduces driving and greenhouse gas emissions over time. On a national basis, the studies show that compact development can be an effective component of broader strategies to reduce greenhouse gas emissions."



Developing the Nassau Hub Innovation District as a mixed-use, walkable community would help to minimize individual trip generation and reduce VMT with the variety of uses, amenities and facilities located on-site. Residents could shop, dine and work on site, employees could take advantage of on-site restaurants, retail facilities and entertainment venues, etc. Visitors could not only dine and shop, but also patronize the entertainment venues. Additionally, the Nassau Hub Innovation District would provide facilities to encourage public transit and use of alternate transportation, including bus stops for the NICE bus system and potential future BRT.

Illustrative Precedent Photographs



Through the implementation of these sustainable design measures the Nassau Hub Innovation District would achieve the vision of innovation everywhere, as well as the legislative purpose of the MFM District "to promote, encourage and achieve the highest-quality sustainable development that preserves, protects and enhances the environmental, economic and human resources of the Town of Hempstead."

3.10.3 Proposed Mitigation

No significant adverse impacts to energy and sustainability have been identified. Moreover, the Applicant has incorporated measures into the project and design guidelines to minimize potential significant adverse impacts to energy and sustainability. Such measure include, but are not limited to:

- Development of an energy master plan to help achieve sustainability goals, reduce energy use and lower the carbon footprint of the development.
- Use of a combination of energy sources, including traditional sources, co-generation and renewables.
- Incorporation of smart technology in parking garages and along streets that would, for example, assist motorists in more easily finding parking spaces, lowering energy consumption, and using LED and smart lighting
- Provision of sidewalks and pedestrian-friendly streetscape to encourage and facilitate walking throughout the site.
- Introduction of bicycle storage and bicycle lanes (including protected lanes) to encourage biking throughout the site.
- Incorporating sustainable infrastructure by, for example, providing agricultural-type facilities (e.g., gardens, farms) to allow for on-site use of end products.
- Use of energy efficient and low impact building materials during construction of buildings on the site.
- Incorporation of energy efficient fixtures to be installed once buildings are constructed.

Illustrative Precedent Photograph

3.11 Construction

The MFM Findings Statement evaluated a mixed-use development at a FAR of 1.6 (similar to the Proposed Action) and indicated that a construction management plan should be provided that addresses temporary impacts related to construction with respect to construction scheduling and phasing, grading, erosion and sediment control, excavation and fill materials, hazardous materials handling, construction operations and safety and construction-related traffic, air quality and noise impacts. The MFM Findings indicates that construction impacts related to air quality would be short-term and relatively minor and, if contractors implemented typical dust control measures and stormwater mitigation measures were installed, fugitive dust emissions would be limited. Thus, air quality impacts would be minimal and would not be expected to exceed air quality nuisance guidelines. Additionally, although construction would affect local noise levels primarily resulting from the operation of equipment and associated truck traffic, noise impacts would be temporary in nature. Moreover, vibration associated the movement and use of large construction vehicles would also be expected to be limited and short-term. Since there are differences between the MFM program evaluated in the FGEIS and documented in the Findings Statement, the following updates the construction information specific to the Proposed Action in order to assess the potential impacts and determine consistency with the MFM Findings Statement.

3.11.1 Introduction

Based on the foregoing, this section addresses the potential temporary impacts associated with demolition (of the parking areas) and the phased construction related to the development contemplated under the CMP. In accordance with the MFM Findings Statement, Hunter Roberts Construction Group (HRCG), the pre-construction manager, has prepared draft construction logistics plans on behalf of the Applicant that address potential temporary impacts related to construction.

A variety of construction work would be performed throughout the 71.6±-acre Subject Property including that related to: utility and stormwater infrastructure, buildings, roadways, parking structures and landscaping. The development is proposed to occur in two major phases. This would require coordination amongst various parties, including the Applicant, community service providers, utility purveyors, various town departments and officials, and Nassau County agencies, among others.

It is anticipated that prior to and during the construction period, regular coordination meetings between the project construction manager and ownership, as well as other meetings with the appropriate governmental agencies/departments and affected parties would occur in order to achieve the goal of seamlessly transforming the area surrounding the Nassau Coliseum into the Nassau Hub Innovation District.

3.11.2 Construction Schedule and Phasing and Staging

In general, construction of the contemplated development is expected to occur in two major phases that would happen consecutively, as described in Section 1.2. Phase I is expected to begin in 2021 and end in 2024 and Phase II would begin in 2025 and end in 2027. The actual construction schedule would be dictated by a number of factors, including weather and market demand. For purposes of comprehensive environmental analysis, the construction logistics plans were prepared to identify the anticipated phasing of construction (see Appendix G). The construction logistics plans indicate the proposed truck routes, the location of available, new and eliminated parking spaces, construction fencing, vehicle gates, security booths, material laydown and storage, underground parking, construction trailers and depict the areas of the anticipated buildings and structured parking facilities in the sequence they are anticipated to be constructed. Additionally, as indicated on the construction logistics plans (see Appendix G), HRCG has divided Phase I into four subphases: Phase I (Months 1 -12) and Phases IA, IB and IC (Months 13-43). Phase II encompasses Months 43 – 73 of construction. Phase I shows three areas of work -- the southwest corner (at the intersection of Hempstead Turnpike and Earle Ovington Boulevard), the western area along Earle Ovington Boulevard (including Parking Garage P1) and the northern area along Charles Lindbergh Boulevard (including Parking Garage P2). Phase IA includes further development of those areas included in Phase I, with material laydown and storage areas and sidewalk sheds shown. Phase IB includes additional work occurring in the original project work areas as well the construction of additional buildings including the residential mixed-use buildings with associated Parking Garages P4 - P6. Phase IC illustrates the completed buildings at this stage of construction (e.g., the P1 and P3 and P4 - P6 garages), as well as the start of additional buildings adjacent to P1, P2 and the Coliseum.

During Phase II, the remainder of the commercial and mixed-use buildings would be constructed at the site, including Parking Garage P3 at the northeastern corner of the Subject Property (see Appendix G).

Pursuant to §144-3.G of the Town Code, construction would occur between the hours of 7:00 a.m. and 3:30 p.m. (weather permitting), Monday through Friday. Construction work would begin at about 7:00 a.m. on weekdays, with most workers arriving between 6:00 a.m. and 7:00 a.m. While construction hours, days of the week and holidays are generally dictated by local codes and ordinances, separate agreements to allow for flexibility during the construction period are often negotiated with the Town.

3.11.3 Construction Materials and Methods

Construction materials are expected to include inert building materials such as concrete, glass, masonry, wood, insulation, plastics, gypsum board, various metals

and piping. Construction materials would be stored in on-site storage containers. All storage containers would be located within construction work areas surrounded by construction fencing with locked gates. Construction would also require the use of chemicals such as paints, solvents, fertilizers, oils, grease, fuel and welding gases. These products would be stored in a protected and secured designated area. Manufacturers' Material Safety Data Sheets (MSDS) would be held with the CM, and recommendations of the manufacturer would be followed for proper use and disposal of materials.

Material laydown (staging) areas have been established for each phase and subphase of the construction period and are shown on the construction logistics plans (see Appendix G). Additionally, construction trailers and sidewalk sheds are shown in each project work area.

At this time, neither timber piling nor sheet piling is proposed as part of the construction within the Nassau Hub Innovation District. It is anticipated that soil conditions will support the use of spread footings in the construction of all foundations.

3.11.4 Hazardous Regulated Materials

Based upon Environmental Site Assessments (ESAs) previously conducted at the Subject Property, the MFM Findings Statement noted that previously identified procedures and best practices, if applied, would appropriately mitigate disturbance of known and unknown subsurface contaminants. Such measures include: the testing of representative soil samples to determine appropriate waste disposal requirements; if warranted, the hiring of an environmental consultant to monitor construction activities taking place within impacted portions of the Subject Property; and, also if warranted, the cessation of any construction activities that violate environmental regulations or permit requirements until corrective actions have occurred.

The MFM Findings Statement requires a CMP contain plan-specific mitigation measures for hazardous materials, noting that the inclusion of the same or similar procedures as those described above would be appropriate for development within the MFM District. Plan-specific measures would be dependent on the findings and recommendations of a site-specific ESA. An overview of the most recent ESA conducted, its recommendations pertinent to the Proposed Action, and the site-specific mitigation measures derived from the same is provided below.

Pursuant to the Phase I ESA that included an examination of previous ESAs of the Subject Property, a review of current and historical land use maps, state and federal environment regulatory databases, municipal records, and site reconnaissance, which was prepared for the NEC CMP by Roux Associates, Inc. (Roux) (*Phase I Environmental Site Assessment, 1255 Hempstead Turnpike, Uniondale, Hempstead, New York, Roux Associates, March 2015*), the Subject Property was identified as being

located within Mitchel Field, former a military airbase, which occupied the area from as early as 1918, and was used as an airfield during WWII until the area was turned over to Nassau County in the 1960s.

The Phase I ESA identified the following:

- Potential undocumented releases of hazardous substances associated with Mitchel Field may have impacted subsurface soils at the Subject Property, but hazardous substances have not been identified in significant quantities by the Phase II ESA prepared by Roux and dated October 20, 2014.
- Portions of the airfield that are known to have contributed to releases resulting in Mitchel Field's consideration as a Hazardous Waste Registry (HWR)/ Environmental Remediation Database (ERD) facility are located more than one mile off-site to the northwest of the Subject Property.
- A Phase II ESA previously performed by Roux in 2014 did not identify hazardous substances associated with Mitchel Field in significant quantities. Low levels of polychlorinated biphenyls (PCBs) near the Coliseum were detected; such levels exceeded unrestricted use criteria, though did not exceed commercial use criteria.
- An approximate 1,000-gallon diesel fuel underground storage tank (UST) servicing a backup electrical generator is located southeast of the Nassau Coliseum. There were no releases associated with the 1,000-gallon UST, which was installed in 1987.
- Several 55-gallon drums containing used oil, wastewater and used glycol were observed throughout the Nassau Coliseum. No significant staining was noted in the vicinity of the drums.
- Asbestos Assessment Reports conducted by ATC Associates, Inc. indicated that asbestos-containing materials (ACM) have been identified at the Nassau Coliseum. ACM are presumed to be present in other areas of the Nassau Coliseum, but not sampled.
- Constructed in the 1960s/1970s, it is presumed that the Nassau Coliseum includes lead-based paint (LBP).
- The Phase I ESA identified two spills that occurred on the Subject Property, each of which have been closed.

As noted on the Part 1 – EAF, a portion of the Subject Property is located on the Environmental Remediation Database. Site #130112 is designated as the Mitchel Field State Superfund Site, Class P (potential). An overall environmental assessment for this site has not been made. It is noted that on December 21, 2009, the Army Corps of Engineers completed an assessment of the area to determine the presence of military munitions or the components of military munitions, due to the site's former use. The assessment did not identify any unacceptable risks to human or ecological receptors.

On April 9, 2015, Roux issued an Environmental Conditions and Recommendations letter based on the findings of its March 2015 Phase I ESA. According to the letter, the Subject Property has been adequately characterized and no additional subsurface investigation is necessary at this time. Based on the findings of the previous investigations, Roux recommended the following procedures be implemented during and prior to construction:

- Excavated material should be handled and disposed of in accordance with applicable federal, state, and local regulations
- Although prior subsurface investigations have not identified any issues of significant concern, a Contingency Plan and a CHASP should be developed and implemented
- In accordance with NYSDEC stormwater management regulations, a Stormwater Pollution Prevention Plan should be developed and implemented to minimize the potential for erosion and impacts to stormwater.

The Proposed Action would entail surface disturbance of the paved parking areas surrounding the Nassau Coliseum, though would not involve any alterations to the Nassau Coliseum itself, as these alterations have been previously conducted and the hazardous materials already addressed.

Based on the findings of the previous investigations and the Roux recommendations, the Proposed Project would implement the following:

- Excavated material to be disposed of off-site would be sampled at a frequency sufficient to meet disposal requirements prior to excavation. All excavated material would be handled and disposed of in accordance with applicable federal, state, and local regulations.
- Imported topsoil used for landscaping and other construction fill materials (if any) would consist of clean imported material from commercial suppliers.
- Though previous subsurface investigations did not identify issues of significant concern, a Contingency Plan would be prepared and implemented to ensure proper handling of any environmental hazards identified during construction.
- Prior to construction, each applicable trade contractor would be required to prepare a CHASP that would include measures for worker and community protection, including personal protective equipment, dust control and emergency response procedures.
- An erosion and sediment control plan (as described above) would be developed and implemented to minimize the potential for erosion and transport of materials off-site. This plan would be included as part of a stormwater pollution prevention plan (SWPPP), designed in accordance with prevailing state and local regulations to sufficiently manage stormwater generated on-site during and after construction activities.

As described above, the Proposed Action would implement measures similar to those identified in the MFM Findings Statement. The Proposed Action would also incorporate recommendations from the previous ESAs and implement plan-specific procedures and best practices, mitigating potential impacts associated with hazardous materials. As such, the Proposed Action would appropriately mitigate impacts associated with the disturbance of known and unknown subsurface contaminants, consistent with the requirements of the MFM Findings Statement.

3.11.5 Construction Worker Safety

To address the safety concerns of the various trades people, where necessary, each applicable trade contractor will be required to prepare a CHASP (see above) that would be designed to prevent occupational injuries and worker exposure to chemical, physical and biological hazards. The CHASP would include measures for worker and community/area protection, including the use of personal protective equipment, dust control and emergency response procedures. The procedures would be designed to ensure compliance with applicable government agencies and regulations, including requirements established by: Occupational Safety & Health Administration (OSHA); the National Institute of Occupational Safety and Health (NIOSH); the United States Environmental Protection Agency (USEPA) and the NYSDEC.

Should contaminated soil and/or groundwater be encountered (though not anticipated, based upon on-site investigations), all on-site contractor and sub-contractor personnel and any other persons visiting or working at the project site who may have the potential for contacting contaminated soil and/or groundwater would be required to read, review and comply with their employer's site-specific CHASP.

3.11.6 On-site Security During Construction Phase

Construction fencing is proposed to be installed around each of the construction work zones, as well as around the entire perimeter of the Subject Property that is under construction or within the active work zones and staging areas. The construction work zones would be manned during work hours and gated and locked during non-working hours. There will be controlled worker access at each project work site using gates and a badging system.

3.11.7 Existing Structures and Utilities

Aside from the Coliseum and the plaza surrounding the facility, all structures on the site (including light poles and ticket booths) would be removed over the course of the construction period. Utility infrastructure servicing the Nassau Coliseum and the surrounding parking areas is trenched underground, beneath the existing site improvements. Under the Proposed Action, portions of the existing utility structure,

including sanitary, stormwater, electricity, and gas will remain in use while other sections may be removed or relocated to allow for new infrastructure. Specifically, it is expected that portions of the existing sewer, water and stormwater infrastructure would need to be relocated to accommodate proposed building foundations, roadways and other associated excavation work. The anticipated relocation of infrastructure (e.g., sewer, water, stormwater) would be discussed with and subject to approvals by the appropriate agencies.

3.11.8 Demolition, Earthwork, Excavation and Erosion Control

Demolition of existing structures (in this case limited to parking fields and associated facilities such as lighting fixtures, as noted above) will be performed in compliance with applicable environmental and health and safety laws and regulations, including but not limited to Occupational Safety & Health Administration (OSHA), Clean Air Act, Resource Conservation and Recovery Act (RCRA), and Clean Water Act, and would ensure that all necessary measures are taken to prevent hazardous substances, hazardous wastes or pollutants (which can be a product or by-product of its activities) from being discharged into the environment. If encountered, Best Management Practice (BMPs)[38] will be used to handle hazardous materials. Such materials, if encountered would be removed and disposed of at the appropriate off-site facilities in compliance with Federal, State and local regulations, as noted in Section 3.11.4, above.

Implementation of the Proposed Action is expected to involve the removal of over 2.35 million SF of pavement. Conservatively assuming an excavation depth of six inches, pavement removal would generate approximately 43,600 cubic yards (cy) of millings, about three-quarters of which would occur in Phase I. This number is expected to be refined throughout the process. Construction excavation would generally include excavation for foundations, installation of utilities and other surface improvements. The resulting millings are expected to be recycled and reused for the proposed new paving on-site to the greatest extent feasible.

Additional excavation will be undertaken to accommodate the proposed parking structures. Assuming a depth of approximately 10 feet, parking structure excavation is estimated to remove approximately 387,000 cy of material. Applying a 15% expansion factor, parking structure excavation will generate approximately 445,000 cy of material. Specifically, after expansion, excavation for parking structures included in Phase I is estimated to generate 278,000 cy of material, with excavation for parking structures included in Phase II estimated to generate approximately 167,000 cy of material. Excavated material will be reused on site to the greatest extent feasible. Material will be utilized across the Subject Property, where

[38] The Environmental Protection Agency (EPA) defines a BMP as a "technique, measure or structural control that is used for a given set of conditions to manage the quantity and improve the quality of stormwater runoff in the most cost-effective manner."

appropriate, to grade, stabilize and landscape the site. Accordingly, off-site fill is not anticipated to be needed.

The USEPA Phase I Rule regulates stormwater discharges associated with industrial activities, defined at 40 CFR 122.26(b)(14) to include construction activities (e.g., clearing, grading, excavation activities) that result in the disturbance of five acres or more of land area. Under the Phase I Rule, such activities are required to obtain National Pollutant Discharge Elimination System (NPDES) permit coverage for stormwater discharges (or coverage under an NPDES-approved State permit [SPDES]). NYSDEC administers New York's NPDES-approved SPDES program, which requires a General Permit for Stormwater Discharges from Construction Activity (GP-0-20-001 [latest version]) for construction projects that will involve soil disturbance of one or more acres.

In addition, the USEPA Phase II rule requires permits be obtained for stormwater discharges from Municipal Separate Storm Sewer Systems (MS4s) in New York State-designated urbanized areas. The Town of Hempstead is a designated urbanized area with a regulated MS4.[39] The SPDES General Permit for Stormwater Discharge from MS4s requires that permittees meet a variety of requirements that are generally designed to encourage municipalities and/or public agencies to actively seek to reduce the amount of contaminants that reach waters of the State through stormwater runoff, including:

- To inventory and analyze stormwater runoff generated within the MS4 jurisdiction
- To engage in public education and outreach efforts that disseminate information on the sources of stormwater runoff, potential causes of contamination of stormwater runoff, and the impacts of same on surface water quality; and
- To implement and enforce stormwater management regulations for land development activities within the MS4 jurisdiction that are at least as stringent as SPDES General Permit requirements.[40]

In accordance with the above-referenced requirements for MS4s, the Town of Hempstead adopted Article XXXVIII, *Stormwater Management and Erosion and Sediment Control* of the Building Zone Ordinance (BZO). Section 387 of this Article sets forth the overall purpose of the chapter, which is to "establish minimum stormwater management requirements and controls to protect and safeguard the general health, safety, and welfare of the public residing within this jurisdiction and to address the findings of fact in § 386 hereof." Accordingly, Article XXXVIII of the

[39] New York State Department of Environmental Conservation. *Designation Criteria for Identifying Regulated Municipal Separate Storm Sewer Systems* (MS4s). Revised May 2010. Available online at: http://www.dec.ny.gov/docs/water_pdf/ms4gpdescrit.pdf.

[40] New York State Department of Environmental Conservation. *New York State Department of Environmental Conservation SPDES General Permit for Stormwater Discharges from Municipal Separate Sewer Systems* (*MS4s*). Effective May 1, 2015. Available online at: http://www.dec.ny.gov/docs/water_pdf/ms4permit.pdf.

BZO sets forth objectives designed to enforce the GP-0-15-002[41] requirements, as are discussed in further detail below.

As the Proposed Action involves soil disturbance of one or more acres, coverage under the current SPDES general permit (GP-0-02-001) would be sought. In accordance with the requirements of the GP-0-20-001, and of Article XXXVIII of the BZO, a SWPPP would be developed at the time of site plan approval. Because construction activities at the Subject Property may require disturbance of greater than five acres at one time, the SWPPP may require a detailed phasing plan that defines the maximum disturbed area per phase and include measures for temporary and/or permanent soil stabilization to be implemented within seven days from the date the soil disturbance activity is ceased.

In accordance with the requirements of the NYSDEC and Article XXXVIII, the SWPPP would be designed, installed and maintained in conformance with the relevant portions of the *New York Standards and Specifications for Erosion and Sediment Control* (the *"2016 Blue Book")*,[42] which provides standards, specifications and criteria on minimizing erosion and sediment impacts from construction activity involving soil disturbance. In addition, the *New York State Stormwater Management Design Manual*, which provides standards and specifications for selection and design of stormwater management practices to comply with State stormwater management performance standards, would also be used in preparing the SWPPP.

Prior to submitting to NYSDEC for permit coverage, the SWPPP must be reviewed and accepted by the Town for conformance with the GP-0-20-001 and Article XXXVIII of the BZO. The MS4 SWPPP Acceptance Form (certifying the Town's acceptance of the SWPPP) must be filed with the Notice of Intent submission to the NYSDEC to obtain permit coverage. Coverage under the latest NYS General Permit must be obtained prior to the start of construction activities on the property.

Once coverage under the NYS General Permit is obtained and construction begins, the site operator is responsible for compliance with the SWPPP, ensuring that all erosion and sediment control practices and all post-construction stormwater management practices identified in the SWPPP are maintained in effective operating condition at all times. Pursuant to Article XXXVIII requirements, inspections of construction activity and erosion control/stormwater management practices are required to be conducted by a qualified inspector at specific points of the construction process, including, among others: start of construction; installation of sediment and erosion control measures; completion of grading; and completion of landscaping.

Implementation of erosion and sedimentation control measures, as described in the two manuals noted above, as well as the use of BMPs, as also discussed in these

[41] The current General Permit number is GP-0-20-001.

[42] New York State Department of Environmental Conservation. *New York State Standards and Specifications for Erosion and Sediment Control*. July 2016. Available online at: http://www.dec.ny.gov/chemical/29066.html.

publications, would assist in ensuring that implementation of the Proposed Action would minimize impacts associated with erosion and sedimentation during the construction phase, through implementation of the following measures:

- Installation of perimeter silt fencing to minimize/prevent sediment from washing into adjacent streets and properties.
- Installation of stabilized construction entrances consisting of stone and filter fabric to prevent tracking of sediment onto public rights-of-way.
- Clearing and grading would be scheduled to minimize the size of exposed areas and the length of time areas are exposed.
- Use of inlet protection on drainage inlets to prevent sedimentation in the structures.
- Implementation of a dust control and watering plan during construction to prevent dust from impacting the surrounding areas.
- Daily inspection and maintenance of erosion control measures by the contractor prior to the start of construction for the day and after heavy or prolonged storms to ensure the integrity and effectiveness of the measures in place.
- Cleaning of sediment from basins or traps.
- Cleaning and repair of sediment barriers, berms and diversions and inlet protection, as necessary.
- Erosion and sediment control measures would be maintained until the site is permanently stabilized.
- After permanent stabilization, all paved areas would be swept and the drainage system flushed, as necessary.

Pursuant to the requirements of the latest NYS General Permit and Article XXXVIII of the Town BZO, routine maintenance of post-construction stormwater management practices is required to ensure continuous and effective operation of each practice. The SWPPP must include a maintenance schedule for the various stormwater management practices. Additionally, prior to final plan approval, pursuant to Article XXXVIII of the BZO, and prior to filing for termination of coverage under the GP-0-20-001, an Operation and Maintenance Plan outlining the long-term maintenance requirements for on-site stormwater management practices must be prepared, and the owner or operator must modify their deed of record to include a deed covenant that requires operation and maintenance of the practices in agreement with the Operation and Maintenance Plan, in accordance with Part V.A.5 of the latest NYS General Permit.

Overall, the Proposed Action's stormwater management system would be designed to comply with the objectives of Article XXXVIII of the BZO, as defined in §387:

- Development of the proposed improvements would conform to the requirements of GP-0-20-001. As discussed in more detail above, a SWPPP would be prepared, to include a detailed phasing plan, erosion and

sedimentation control measures, post-construction control measures, and provisions for inspections and long-term operation and maintenance of the stormwater management system. The SWPPP would be submitted to the Town of Hempstead for its review and acceptance, and a Notice of Intent would be filed with the NYSDEC.

- Implementation of the previously discussed erosion and sediment control measures during construction, and installation of a comprehensive stormwater management system that would capture and convey virtually all additional stormwater runoff to a nearby recharge basin would ensure that stormwater would continue to be recharged appropriately and would not be permitted to run overland or contribute to flooding, siltation or impacts to streams.
- Stormwater would continue to be accommodated by the existing positive drainage network on the Subject Property. Nassau County drainage system. Additional on-site drainage pipe and structures (i.e., catch basins and storm drains) would be installed through the development within the proposed roadways in order to make room for the proposed buildings and parking structures. Roof drains would be installed throughout the Subject Property, as necessary, to direct stormwater to the updated positive drainage system. Such stormwater management system would include modifications to the existing positive drainage system to mitigate impacts relating to the location of the proposed buildings. Stormwater would continue to be discharged to Nassau County recharge basin #537, located on the south side of Hempstead Turnpike on the westerly side of Glenn Curtiss Boulevard.
- In accordance with the SWPPP, and pursuant to the requirements of GP-0-20-001, provisions to ensure the long-term operation and maintenance of the stormwater management system would be identified.

As indicated above, the Proposed Action would comply with Article XXXVIII of the BZO for stormwater management and erosion control. As also indicated above, the Proposed Action would, in the construction phase, provide stormwater runoff controls, and in the development phase, continue to employ an integrated stormwater management system that would collect stormwater generate on-site and convey it to an off-site recharge basin. This stormwater management system would minimize the amount of pollutants entering the soil and groundwater from runoff generated on the site. Stormwater facilities would be routinely cleaned and maintained in order to minimize potential public health issues. Therefore, with implementation of the aforementioned erosion and sediment control measures in accordance with an approved SWPPP, which would be developed at the time of site plan approval for various portions of the CMP (if approved), no significant adverse soil erosion or sedimentation related impacts from construction are expected as a result of the Proposed Action.

3.11.9 Construction-Related Socioeconomic Impacts

Based on estimated construction costs, an economic impact analysis was undertaken using IMPLAN (see Section 1.3 for further details). This analysis evaluated the number of jobs and added revenue anticipated to be directly generated,[43] indirectly generated, [44] and induced[45] by the Proposed Action. Economic impacts were calculated based on multipliers and datasets for various industries identified in IMPLAN and reflect typical spending patterns by these industries and workers. Effects are reported for the New York City metropolitan region, which includes Nassau County. In this analysis, the impacts of Phase I and Phase II construction were evaluated independently, as follows.

According to the Applicant, total construction costs of Phase I are expected to be approximately $894 million. As Phase I construction is anticipated to last four years (2021 to 2024), average spending is anticipated to be approximately $223.5 million. per year. During the four-year construction period, proposed construction is anticipated to support 2,138 jobs annually. Specifically, these jobs would include: 1,320 direct jobs, 280 indirect jobs, and 538 induced jobs. Cumulatively, the direct, indirect, and induced effects are estimated to produce $157 million in annual labor income, over $223 million in annual value added, and an annual output of $364 million.

Total construction costs of Phase II are expected to be over $617 million. As Phase II construction is anticipated to last three years (2025 to 2027), average spending is anticipated to be approximately $168 million per year. During this construction period, proposed construction is anticipated to support 1,570 jobs annually. Specifically, these jobs will include: 1,027 direct jobs, 144 indirect jobs, and 298 induced jobs. Cumulatively, the direct, indirect, and induced effects are estimated to produce over $116, million in annual labor income, approximately $164 million in annual value added, and an annual output of over $260 million.

Based on the above, the anticipated construction is expected to have a substantial positive economic impact through the creation of direct, indirect, and induced jobs, and their associated labor income and economic output.

3.11.10 Construction-Related Traffic and Parking

The construction-related traffic and parking section is based on the construction phasing sequence and logistics plans, discussed above.

Information provided by the development team for the proposed Nassau Innovation Hub indicates an anticipated phased construction period totaling 73 months. This

[43] Direct effects are immediate results of direct spending (i.e., construction jobs directly related to on-site activity.

[44] Indirect effects are impacts of local industries buying goods and services from other local industries (i.e., jobs supported from construction-related spending).

[45] Induced effects are responses by an economy to an initial change (direct effect) that occur through re-spending of income by direct employees. Money is recirculated through the household spending patterns causing further local economic activity.

includes demolition of portions of existing parking areas to facilitate the construction of the initially proposed parking structures, construction of the Phase I buildings, and eventual construction of the Full Build development. Throughout the construction period, work hours will generally be scheduled from 7:00 a.m. to 3:30 p.m. Monday through Friday, in accordance with Town Code regulations, unless otherwise modified (as noted in Section 3.11.2).

The Construction Logistics Plans (see Appendix G) indicate the following construction phases which are described and analyzed here to determine the potential for impacts. The number of phases and duration of each will be determined by many factors, including weather and market demand:

- Phase I: Month 1 to 12 – Staging and initial construction of parking structures P1 and P2 (Foundations).
- Phase IA: Month 13 to 43 –Construction of parking structures P1 (1,311 spaces) and P2 (1,000 spaces).
- Phase IB: Month 13 to 43 – Construction of Multiple Buildings associated with Phase I development as well as P4 through P6 (for the residential mixed-use buildings).
- Phase IC: Month 13 to 43 - Final construction of Phase I Development Plan.
- Phase II: Month 43 to 73 – Construction of Full Build-Out Development Plan including P3.

Presently, 5,944 parking spaces are available on-site. Throughout the construction period, between the construction of the parking garages on the premises and off-site parking, that total parking yield would remain available to accommodate events at the Nassau Coliseum, as specifically illustrated on the Construction Logistics Plans.

Oversized deliveries will be scheduled to occur overnight (Sunday through Thursday, 2:00 a.m. to 4:00 a.m.) to avoid conflict of these vehicles with the existing peak hour traffic in the area.

Construction vehicles would arrive and depart via Hempstead Turnpike (NYS Route 24). Two routes were identified for vehicles arriving from Eastern Long Island:

1. Long Island Expressway (I495) westbound to the Seaford-Oyster Bay Expressway (NYS Route 135) southbound to Hempstead Turnpike (NYS Route 24) westbound.
2. Long Island Expressway (I495) westbound to Newbridge Road (NYS Route 106) southbound to Hempstead Turnpike (NYS Route 24) westbound.

Similarly, three routes were identified for vehicles arriving from Western Long Island:

1. Long Island Expressway (I495) eastbound to New Hyde Park Road southbound to Hempstead Turnpike (NYS Route 24) eastbound.

2. Long Island Expressway (I495) eastbound to Roslyn Road southbound to Hempstead Turnpike (NYS Route 24) eastbound.
3. Long Island Expressway (I495) eastbound to Glen Cove Avenue to Hempstead Turnpike (NYS Route 24) eastbound.

Local suppliers of construction material may arrive from other roadways to the site based on their origin. The construction vehicles would enter the site via existing site access points on Hempstead Turnpike, Earle Ovington Boulevard, and Charles Lindbergh Boulevard. The exact entrance each vehicle would utilize would depend on the quadrant in which construction activities are taking place.

The specific anticipated sequence of construction is as follows:

- Installation of erosion control devices, including silt fence and anti-tracking pad for construction entrances
- Demolition and removal of remaining structures/vegetation and underground infrastructure not utilized in new design
- Earthwork – rough grading of site (excavation and fill operations. Strip topsoil and stockpile in designated areas where applicable), rough grade of roadways to facilitate drainage
- Installation of building foundations/basements
- Building constructions (framing, siding, roofing, etc.)
- Utility connections to buildings
- Fine grading, roadway finishing
- Landscaping
- Building interior finishing
- Removal of erosion control devices.

Construction traffic associated with these operations would include trucks for performing operations on the site and the delivery and removal of materials as well as worker's vehicles and tradesman vans. The number and types of construction vehicles would vary considerably depending on the phase of construction and the particular operations underway at any given time. The site's location on Hempstead Turnpike is key in consideration of construction traffic, particularly truck traffic.

It is anticipated that all parking and storage of construction worker vehicles and construction equipment would be maintained on site. No parking of vehicles or equipment would occur on the surrounding roadways. Laydown areas for any materials that would be stockpiled on the site would be provided on site, as shown on the Logistics Plans (Appendix G).

While it is difficult to determine the specific traffic levels that would be generated by the construction activities on the site, it can be stated that they would not approach the levels of traffic that would occur once the site is fully constructed and occupied,

as evaluated in this study. The number of construction workers would not approach the numbers of workers, visitors and residents that would result in peak period traffic levels that are projected to exist once the development is complete. Material deliveries, removal of debris and other trucking operations would take place over the course of an entire day, as necessary, thereby reducing any impact on adjacent roadways.

It is noted that the site requires a significant amount of material to be displaced to accommodate the proposed construction. This material is preliminarily estimated at 445,000 cy, but the amount would be further refined as the detailed building designs are developed. This material would be removed from the site over the course of the build-out period, reducing the frequency of truck trips. Based upon this preliminary estimate and assuming 25 cy of material per truck and 200 working days per year yields an average of 12 trucks laden with cut material to the site per day. Over an 8-hour day, this equates to an average of less than 2 truck coming to and leaving the site per hour. While these removals would result in trips from the Subject Property to more than one location, they would be controlled, and would the trucks would use major roadways and not local secondary streets.

3.11.11 Construction-Related Noise and Vibration

The MFM Findings Statement concluded that construction noise would be generated due to the operation of equipment and truck traffic associated with the labor force and delivery and removal of supplies/materials. However, the Findings determined that noise and vibration impacts would be limited and temporary in nature. No significant noise or vibration impacts were identified, and no mitigation measures proposed.

Construction Noise Impact Criteria

Construction would be conducted in accordance with the Town of Hempstead Noise Code to minimize potential impact. The Town ordinance prohibits loading and unloading containers and building materials in such a manner that creates unreasonable noise during nighttime hours. The Town Noise Ordinance also prohibits construction activities such as the erection, excavating, demolition, alteration or repair, of any building other than between the hours of 7:00 a.m. and 6:00 p.m. on weekdays.

According to NYSDEC noise policy, the goal for any permitted operation is to minimize increases in sound levels. As described in the NYSDEC regulatory context, it is recommended that noise levels should not exceed 65 dBA. Given the temporary nature of construction noise, increases in ambient noise of 10 dBA or more, which would increase levels above 65 dBA, are considered reasonable impact criteria that would warrant construction noise mitigation. The existing ambient sound levels in the area are typically in the mid to upper 60s at residential receptors south of the

project site near Walton Avenue and in the upper 50s to lower 60s at the Long Island Marriott.

Therefore, BMPs to mitigate construction noise effects should be provided when construction noise exceeds the mid to upper 70s dBA at receptors sound of the project site and in the upper 60s to lower 70s at the Long Island Marriott.

Since most construction activities throughout the project site would be relatively far from noise-sensitive receptors, there is relatively limited potential for construction noise impact.

Construction Noise Impact Assessment

The potential for noise impact due to construction activities would depend upon the phase of construction, the type, amount and location of construction equipment and the amount of time it operates over a workday. Construction of the proposed buildings would include site excavation, foundation, steel and concrete erection, mechanical and interior fit out. Truck traffic associated with excavation operations would be limited to public access roads that currently experience bus and truck traffic and would generally avoid secondary roadways and residential areas, as noted in Section 3.11.10, above.

The specific construction equipment and methods have not been defined at this phase of the proposed development. The table below presents the typical (i.e., not necessarily proposed) construction equipment that is used during excavation and foundations/structure erection phases of such developments. This table presents the maximum sound level at 50 feet from each piece of equipment, the utilization factor (which is a measure of how often the equipment is operating throughout the day) and whether the equipment is included in each phase of construction.

The equipment reference noise levels are based on the Federal Highway Administration's Roadway Construction Noise Model database, which is a standard model used for projects of this size and nature. The equivalent sound level (Leq) at 50 feet, which includes contributions from all construction equipment, would range from 87 to 90 dBA at 50 feet. At farther distances, construction noise reduces approximately 7.5 dBA per distance doubling, not including noise reduction due to intervening objects like buildings. Therefore, construction noise at 100 feet would range from 80 to 83 dBA and at 200 feet would range from 73 to 76 dBA without any intervening buildings. At a distance of 500 feet, construction noise would range from 62 to 65 dBA.

Table 52 – Construction Noise Predictions

Equipment	Lmax at 50 feet (dBA)	Utilization Factor	Construction Phase	
			Excavation	Foundation and Structure
Air Compressor	80	40%		Yes
Backhoe	80	40%	Yes	
Concrete Mixer	85	40%		
Excavator	85	40%	Yes	Yes
Grader	85	40%		Yes
Hoe Ram	90	20%	Yes	
Paver	85	50%		
Dump Truck	84	40%	Yes	Yes
Sheet Pile Driving	95	20%		
		Leq at 50 feet	**87 dBA**	**90 dBA**
		Leq at 100 feet	**80 dBA**	**83 dBA**
		Leq at 200 feet	**73 dBA**	**76 dBA**
		Leq at 500 feet	**62 dBA**	**65 dBA**

Source: VHB, 2018.

Noise from construction within the middle of the Subject Property would typically be at 500 feet or farther from the closest receptors. At this distance, construction noise levels would not exceed the NYSDEC criteria (typically ranging from the low- to mid-60s dBA) and BMPs would not be required.

As assessed in Section 3.7.2, typical construction activities would be 500 feet or farther from the closest receptors and below the threshold for noise impact. Therefore, BMPs are not required to mitigate potential impact. Nevertheless, the following BMPs may be implemented, as safe, feasible, and reasonable to minimize potential construction noise effects:

- Replacing back-up alarms with strobes, as allowed within OSHA regulations, to eliminate the annoying impulsive sound.
- Assuring that equipment is functioning properly and is equipped with mufflers and other noise-reducing features.
- Locating especially noisy equipment as far from sensitive receptors as possible.
- Using quieter construction equipment and methods, as feasible, such as smaller backhoes and excavators.
- Maintaining equipment to avoid louder operation associated with mechanical issues.
- Using path noise control measures such as portable enclosures for small equipment (i.e. jackhammers and saws).
- Building portable noise walls around construction areas to reduce noise.

- Limiting the periods of time when construction may occur is a common approach to minimizing impact. Adhering to the time of day restrictions in the Town of Hempstead Noise Code would minimize impact to existing residences.
- Maintaining strong communication and public outreach with adjacent neighbors (e.g., MSKCC, the Marriott Hotel) is a critical step in minimizing impact. Providing abutters information about the time and nature of construction activities can often minimize the effects of construction noise.

3.11.12 Construction-Related Air Quality Impacts

Construction activities with development resulting from the Proposed Action have the potential to affect air quality because of engine emissions from on-site construction equipment and dust-generating activities such as earth movement, vehicles traveling on unpaved surfaces, and loading/unloading operations. In general, much of the heavy equipment used in construction has diesel-powered engines, which generally produce relatively high levels of nitrogen oxides and fine particulate matter. Construction activities also generate fugitive dust emissions as a result of demolition, excavation, grading, and loading/unloading materials into trucks.

As noted in the MFM Findings Statement construction and demolition activities at the subject property will result in air pollutant emissions that will impact local air quality levels. These impacts primarily result from the operation of equipment and fugitive particulate emissions. Traffic associated with the labor force and supplies/materials/debris can also affect local air quality. However, impacts to air quality form these activities were anticipated to be temporary and relatively minor.

Pursuant to the MFM Findings Statement, contractors would implement typical dust mitigation measures such as watering exposed surfaces and dust-generating activities, covering or stabilizing of storage piles and will utilize “good housekeeping practices” which would limit dust emissions (as described below). Implementation of stormwater mitigation measures (as discussed in Section 3.11.8) would also contribute to dust reduction.

Considering the length of the construction period, expected construction phasing and the distribution of these air quality emissions over substantial areas with control measures typically applied during construction and demolition activities, air quality impacts are expected to be minimal and are not expected to exceed air quality nuisance guidelines, in conformance with the MFM Findings Statement.

Additionally, GHG emissions, both direct and indirect, would be generated during construction from equipment operation, construction-related traffic, electricity demand and other activities.

Measures to be undertaken during construction activities would include dust mitigation, reduction of diesel emissions and reduction of the GHG. Mandatory regulations regarding fugitive and visible emissions are as follows:

- In compliance with the New York State laws regulating fugitive and visible emissions,[46] contractors would be required to ensure that all trucks carrying loose material use water as a dust suppression measure, that wheel-washing stations be established for all trucks exiting the construction site, that trucks hauling loose material be equipped with tight-fitting tailgates and their loads securely covered prior to leaving the site, that streets adjacent to the site be cleaned as frequently as needed by the construction contractor, and that water sprays be used for all transfer of loose material to ensure that materials are dampened as necessary to avoid the suspension of dust into the air.

Furthermore, dust mitigation and diesel emissions reduction typically include the following BMPs, which may be implemented, as safe, feasible, and reasonable measures to minimize potential construction air-quality effects:

- Cover or stabilize storage piles to limit erosion and fugitive dust
- Provide provisions for temporary vegetative cover, mulch, spray-on adhesive, calcium chloride application for all not active exposed areas
- Use water spraying/sprinkling to reduce on-site fugitive dust
- Use wind barriers to minimize fugitive dust leaving the site
- Construct temporary graveled entrance/exit to the construction site and install wheel-washing stations at the entrance/exit to the site to prevent carry-out of dirt and dust
- Use properly maintained construction equipment
- Use electrical equipment instead of diesel-fueled equipment
- Use diesel construction equipment containing the appropriate after-engine emission controls
- Limit idling. Contractors would comply with the prevailing state law restricting unnecessary idling. Specifically, idling of delivery and/or dump trucks, or other diesel-powered equipment would not be permitted during periods of non-active use, and will be limited to five minutes in accordance with the New York Codes, Rules and Regulations, Subpart 217-3.[47]

Greenhouse gas reduction measures partially intersect with dust and diesel reduction and mitigation. For instance, using electrical equipment instead of diesel-fueled-equipment would reduce fine particulate emissions and also may reduce GHG. GHG reduction measures for construction are not limited to reducing direct and indirect emissions, but also typically include reduction in the life cycle GHG

[46] 6 CRR-NY - Chapter III, Air Resources, Subchapter A. Prevention and Control of Air Contamination and Air Pollution
[47] New York Codes, Rules and Regulations, Subpart 217-3, "Idling Prohibition for Heavy Duty Vehicles".

emissions. Following GHG reduction measures are contemplated for use during the construction period:

- Use construction materials that are extracted or manufactured locally or within the region
- Use construction materials that have low energy and emissions in their production process and during construction
- Use building materials with recycled content
- Re-use building materials and products, when feasible
- Use rapidly renewable building materials
- Select the closest debris disposal site to reduce vehicle miles traveled.

3.11.13 Mitigation Measures

The construction management and logistics plans presented in this section of the Expanded EA are consistent with the MFM Findings Statement with respect to the minimization of construction impacts associated with the development of the Nassau Hub Innovation District. Consistent with the MFM Findings, this construction section addresses the potential temporary impacts related to construction, including, but not limited to, traffic and parking, air quality and noise and vibration.

Although no significant adverse construction impacts were identified, certain measures have been incorporated to minimize impacts during the construction period. These include the following:

- Each work site on the Subject Property would be secured by construction fencing, at the time that work site is under construction.
- Site access would be controlled using gates and a badging system, access gates would be locked during non-work hours.
- Construction materials and products will be stored in a protected and secured designated area.
- Excavated material to be disposed of off-site would be sampled to determine the appropriate handling and disposal method.
- A CHASP, which would incorporate measures for worker and community protection, including personal protective equipment, dust control and emergency response procedures, would be prepared prior to construction, and implemented during each phase of construction.
- If unanticipated environmental conditions not identified in this Expanded EA are encountered during site preparation activities (i.e., conditions that may present a potential threat to human health or the environment), the identified condition would be properly investigated and handled in accordance with applicable local, state and/or federal regulations.

- A SWPPP would be prepared and implemented. As part of the SWPPP, erosion and sediment control measure would be installed prior to construction and monitored through the construction period. These measures would be maintained until the site is permanently developed.
- Construction would occur in accordance with the hours and days permitted by the Town of Hempstead Town Code.
- Pre-cast, prefabricated wall, and oversize deliveries, as necessary, would occur overnight (Sunday – Thursday) with permission for these activities, as required.
- BMPs associated with the minimization of potential noise impacts have been outlined above, and would be implemented, as necessary.
- Measures to minimize impacts to air quality, including fugitive dust and GHG emissions, as described above, would be implemented throughout the construction period.

4

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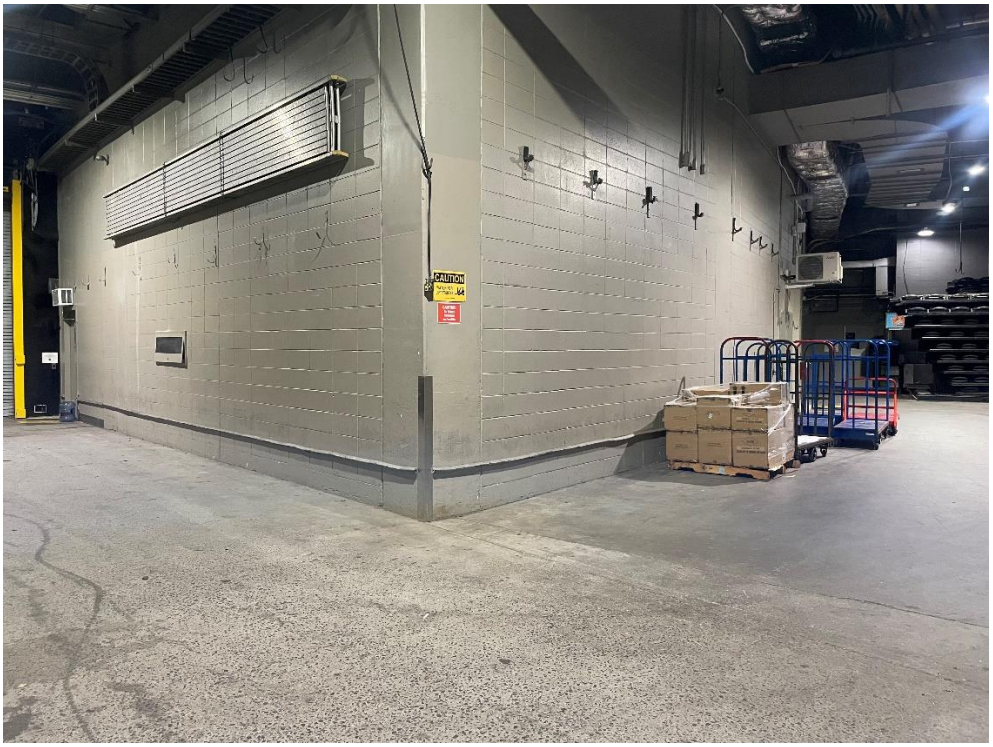
APPENDIX B

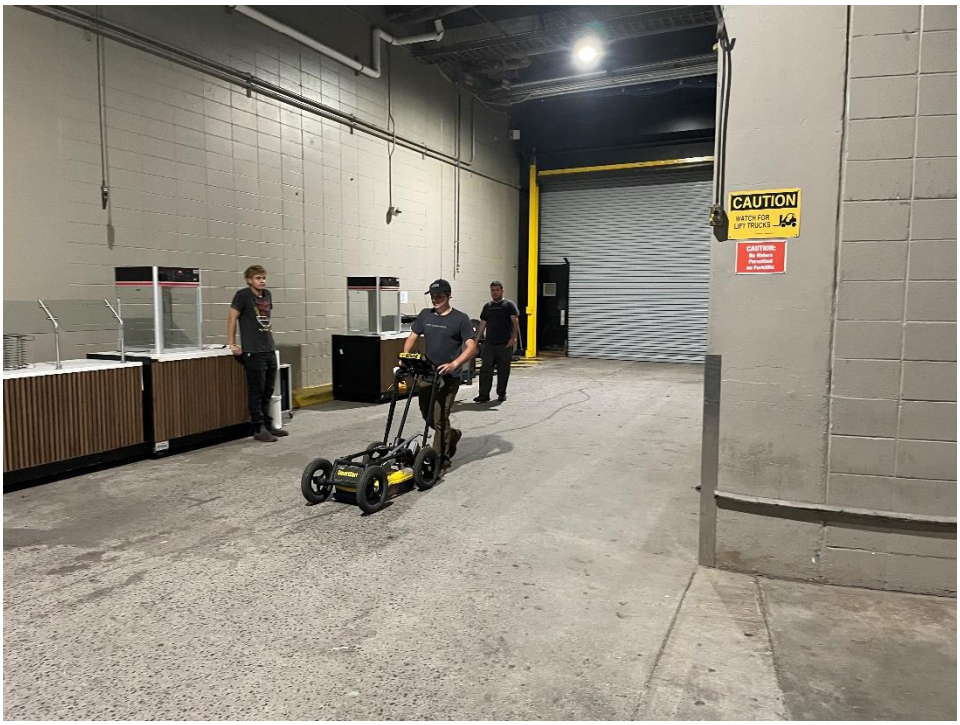
SITE PHOTOGRAPHS

Appendix B – Site Photographs
Phase II Environmental Site Investigation
Project Maximus
1255 Hempstead Turnpike
Langan Project No. 170754501

Photograph 1 - General view of the site, facing north.



Photograph 2 – General view of the boring location SB21 adjacent to freight elevator, facing southwest.



Photograph 3 –Nova performing a geophysical survey at boring location SB21, facing northeast.

Photograph 4 – Lakewood installing a soil boring (SB13), facing northeast.

Photograph 5 – Langan performing a tracer-gas test on soil vapor point SV18, facing west.

Photograph 6 – Representative view of soil vapor point sealed with hydrated bentonite, facing east.

Photograph 7 – Representative view of monitoring well construction, facing north.

Photograph 8 – Langan gauging monitoring well for groundwater depth, facing north.

Photograph 9 – Representative view of Langan purging a monitoring well with a peristaltic pump, facing southeast.

Photograph 10 – Representative view of soil cores, facing south.

Photograph 11 – Investigation derived waste stored onsite, facing southwest.

Photograph 12 – Representative view of restored sample location, facing east.

APPENDIX C

GEOPHYSICAL SURVEY REPORT

GEOPHYSICAL ENGINEERING SURVEY REPORT

Commercial Property
224 3rd Avenue,
Brooklyn, New York 11217

NOVA PROJECT NUMBER:
23-3240

DATED:
July 24, 2023

PREPARED FOR:

LANGAN

21 Penn Plaza
360 West 31st Street, 8th Floor
New York, New York 10001
www.langan.com

PREPARED BY:

NOVA
GEOPHYSICAL
ENGINEERING
Subsurface Mapping Solutions
56-01 Marathon Parkway # 765
Douglaston, New York 11362
347-556-7787 (PHONE)
718-261-1527(FAX)
www.nova-gsi.com

NOVA GEOPHYSICAL SERVICES

SUBSURFACE MAPPING SOLUTIONS
56-01 Marathon Parkway #765, Douglaston, New York 11362
Ph. 347-556-7787 Fax. 718-261-1527
www.novagsi.com

July 24, 2023

Kaitlyn Gioia
Senior Staff Scientist
LANGAN
21 Penn Plaza
360 West 31st Street, 8th Floor
New York, New York 10001-2727
D: 212.479.5531 M: 516.913.3464
E: kgioia@langan.com

Re: Geophysical Engineering Survey (GES) Report
Commercial Site-
1255 Hempstead Turnpike,
Uniondale, New York 11553

Dear Ms. McConnell,

Nova Geophysical Services (NOVA) is pleased to provide the findings of the geophysical engineering survey (GES) at the above referenced project site: 1255 Hempstead Turnpike, Uniondale, New York (the "Site").

INTRODUCTION TO GEOPHYSICAL ENGINEERING SURVEY (GES)

NOVA performed a geophysical engineering survey (GES) consisting of a Ground Penetrating Radar (GPR) and Electromagnetic (EM) survey at the site. The purpose of this survey is to locate and identify utilities, underground storage tanks and other substructures in the vicinity of the proposed boring areas on July 19th, 2021.

The equipment selected for this investigation was a GSSI UtilityScan 350 MHz ground penetrating radar (GPR) with a shielded antenna Sensors and Software Noggin 250 MHz GPR with a shielded antenna and a RadioDetection RD7100 Electromagnetic utility locator. A GPR system consists of a radar control unit, control cable, and transducer (antenna). The control unit transmits a trigger pulse at a normal repetition

rate of 250/350 MHz. The trigger pulse is 3sent to the transmitter electronics in the transducer via the control cable. The transmitter electronics amplify the trigger pulse into bipolar pulses that are radiated to the surface. The transformed pulses vary in shape and frequency according to the transducer used. In the subsurface, variations of the signal occur at boundaries where there is a dielectric contrast (void, steel, soil type, etc.). Signal reflections travel back to the control unit and are represented as color graphic images for interpolation.

A typical electromagnetic (EM) utility locating system consists of a transmitter unit and a receiver unit. The receiver unit can be used independently of the transmitter unit in order to detect utility lines with an inherent EM signature (electric utility lines, water lines, etc.). If needed a current at a specific frequency can also be placed on a utility that is being located. This can be done via the transmitter unit by either direct connection or induction via an EM field varying at specific frequency. The receiver unit is then set to the selected frequency and the electromagnetic field created by the current running through the utility can be located allowing the utility to be marked.

GEOPHYSICAL METHODS

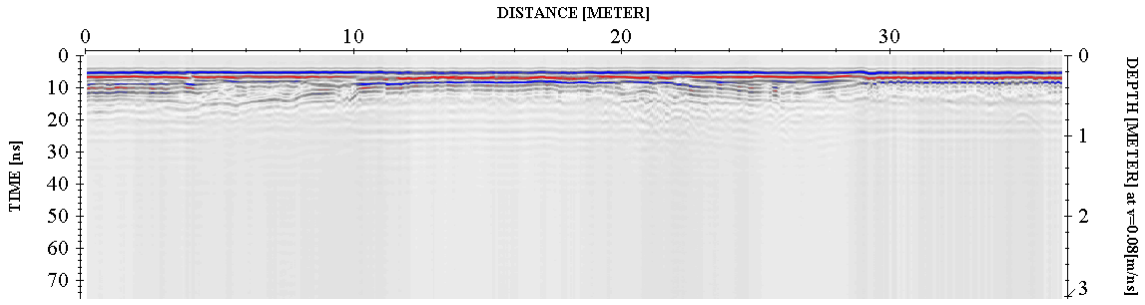
The project site was screened using GPR to search the specified area and inspected for reflections, which could be indicative of substructures and utilities within the subsurface. An EM utility locator was used to help determine the locations of utilities within the survey area.

EM data was collected and interpreted on site and suspected utilities marked as needed. GPR data profiles were collected for the areas of the Site specified by the client and processed as specified below.

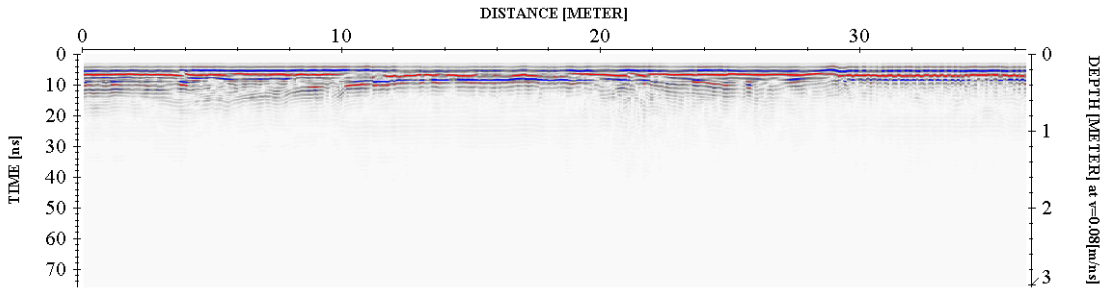
DATA PROCESSING

In order to improve the quality of the results and to better identify anomalies NOVA processed the collected data. The processing work flow is briefly described in this section.

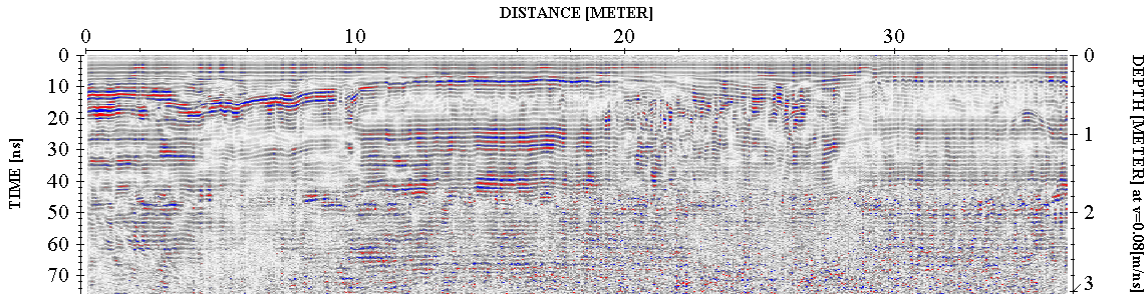
Step 1. Import Raw RAMAC data to standard processing format



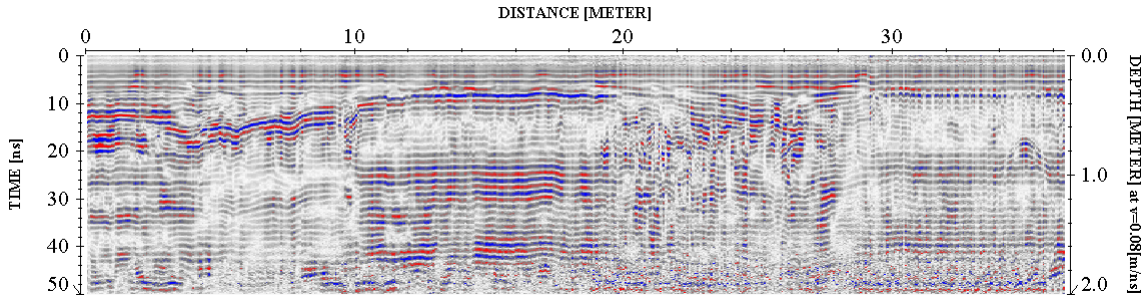
Step 2. Remove instrument noise *(dewow)*



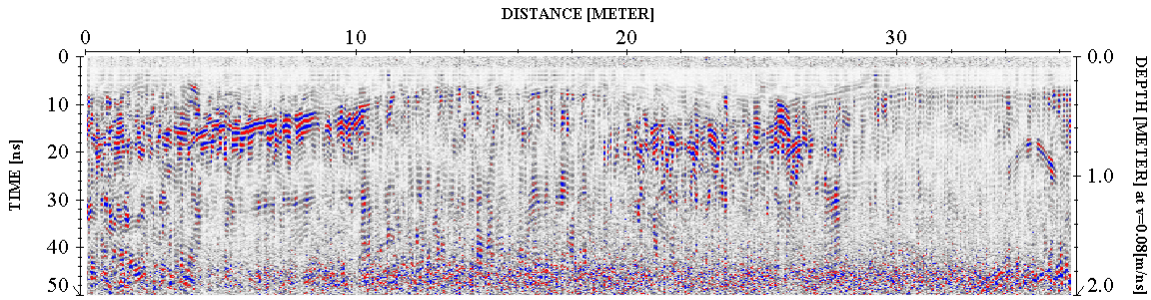
Step 3. Correct for attenuation losses *(energy decay function)*



Step 4. Remove static from bottom of profile *(time cut)*



Step 5. Mute horizontal ringing/noise *(subtracting average)*



The above example shows the significance of data processing. The last image (step 5) has higher resolution than the starting image (raw data – step 1) and represents the subsurface anomalies much more accurately.

PHYSICAL SETTINGS

NOVA observed the following physical conditions at the time of the survey.

Weather: Cloudy

Temperature: 75° F

Surface: Concrete, Asphalt

Survey Parameters: A GPR grid scan was conducted within the survey areas as shown on the survey plan. The approximate line spacing of the grid survey was approximately 2'. Additional GPR data was collected over features of interest.

Limitations: The geophysical noise level (GNL) at the site was high due to being in an urban environment and other unknown anthropogenic noise sources.

RESULTS

The results of the geophysical engineering survey (GES) identified the following at the project site:

- The GES identified anomalies resembling potential subsurface utilities (such as sewer, water, gas, telecom and electric) located within the survey area. The approximate locations are shown in the survey plan.
- The GES did not identify any major anomalies consistent with USTs within the surveyed areas of the site.
- NOVA cleared and marked all boring locations shown in the survey plan.

If you have any questions, please do not hesitate to contact the undersigned.

Sincerely,

NOVA Geophysical Services

Levent Eskicakit, P.G., E.P.
Project Manager

Attachments:

Location Map
Survey Plan
Geophysical Images

NOVA
Geophysical Services
Subsurface Mapping Solutions
56-01 Marathon Parkway, # 765
Douglaston, New York 11362
Phone (347) 556-7787 * Fax (718) 261-1527
www.novagsi.com

Location Map

SITE:	**Commercial Site** 1255 Hempstead Turnpike Uniondale, New York 11553
CLIENT:	Langan
DATE:	July 19th, 2023
AUTH:	Raymond Looney

LEGEND

NOVA
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56-01 Marathon Parkway, # 765
Douglaston, New York 11362
Phone (347) 556-7787 * Fax (718) 261-1527
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SURVEY PLAN

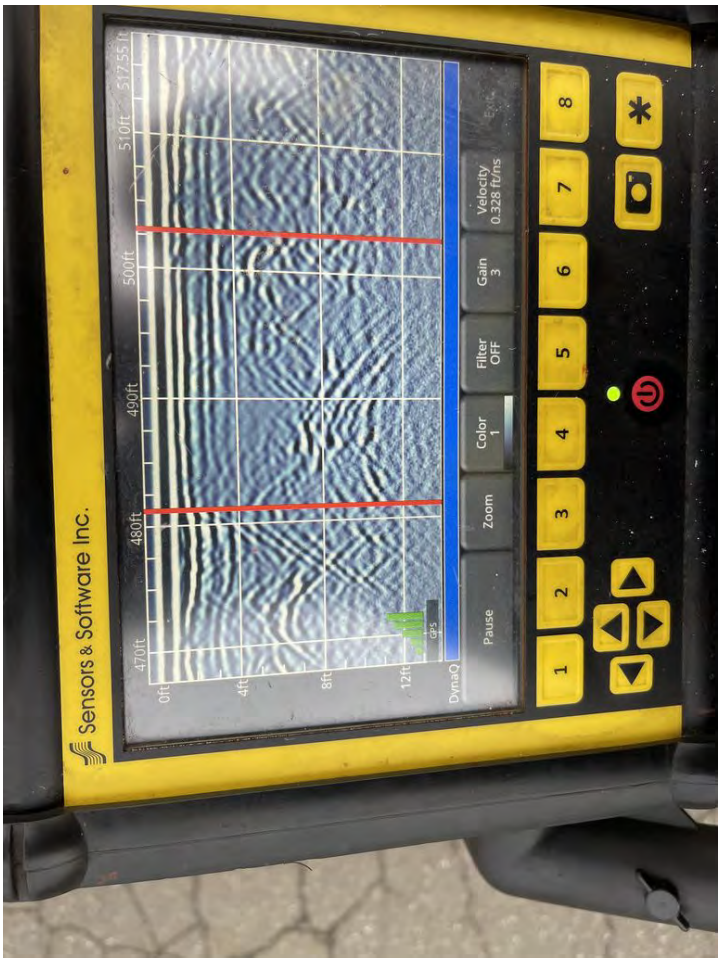
SITE:	**Commercial Site** 1255 Hempstead Turnpike Uniondale, New York 11553
CLIENT:	Langan
DATE:	July 19th, 2023
AUTH:	Raymond Looney

LEGEND

- Survey Area
- Project Area
- Electric
- Drainage
- ⊕ Boring

GEOPHYSICAL IMAGES

Langan
1255 Hempstead Turnpike
Uniondale, New York 11553
July 19th, 2023



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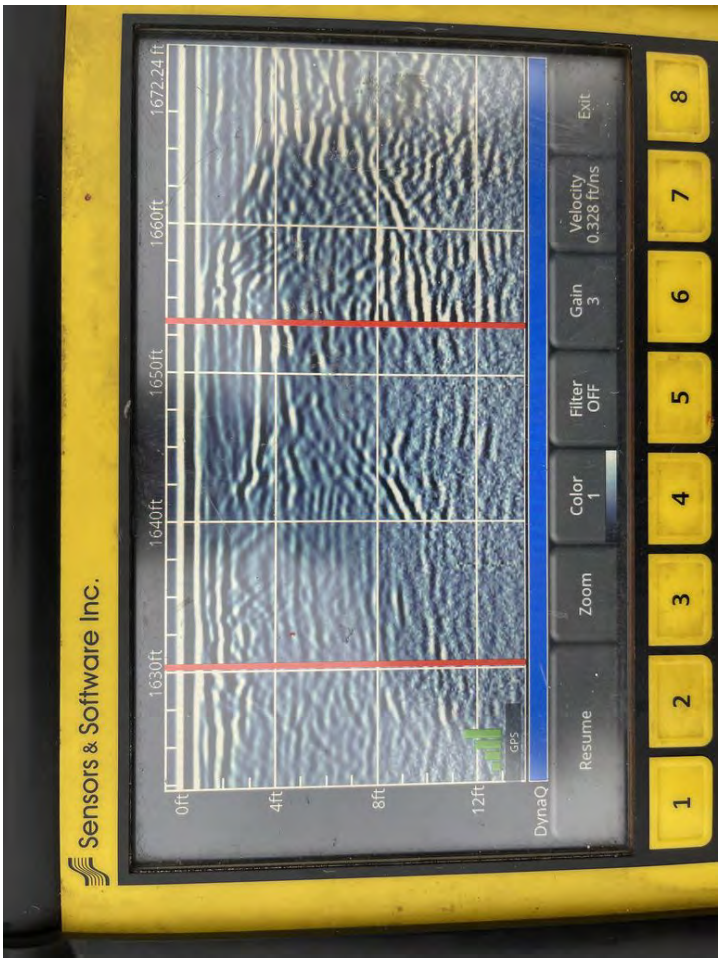
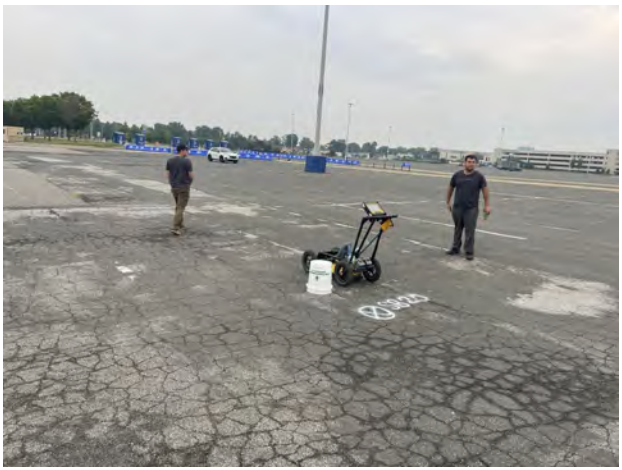
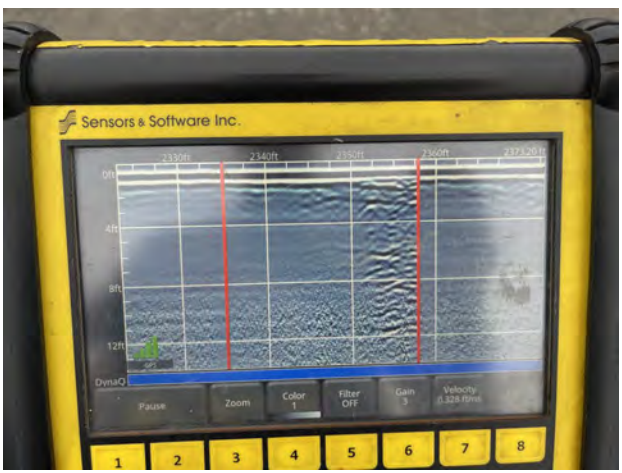
July 19th, 2023







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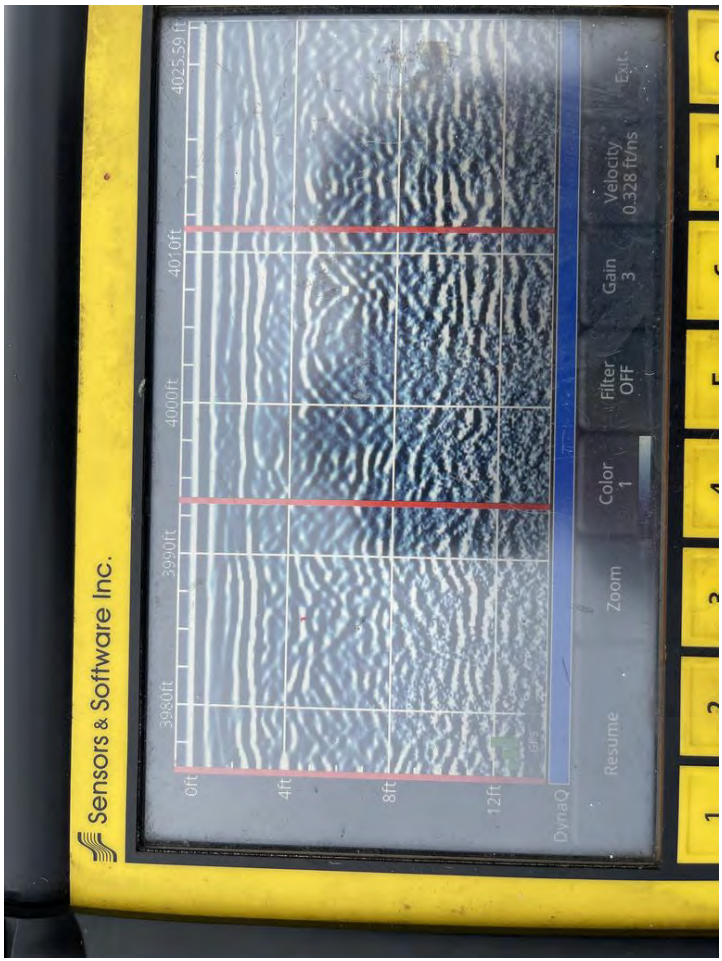

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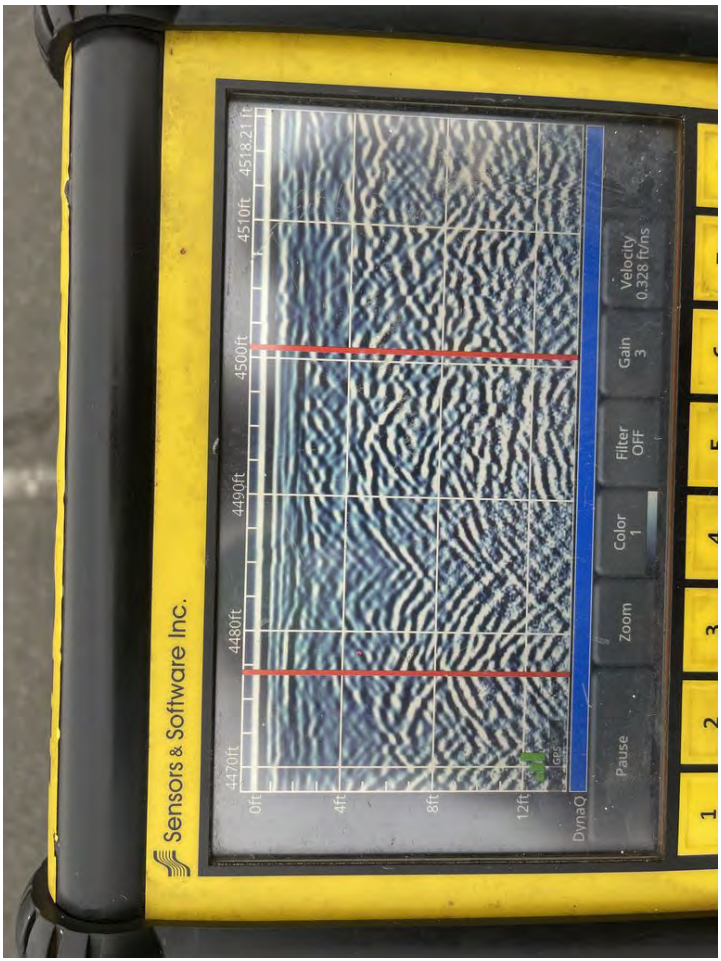

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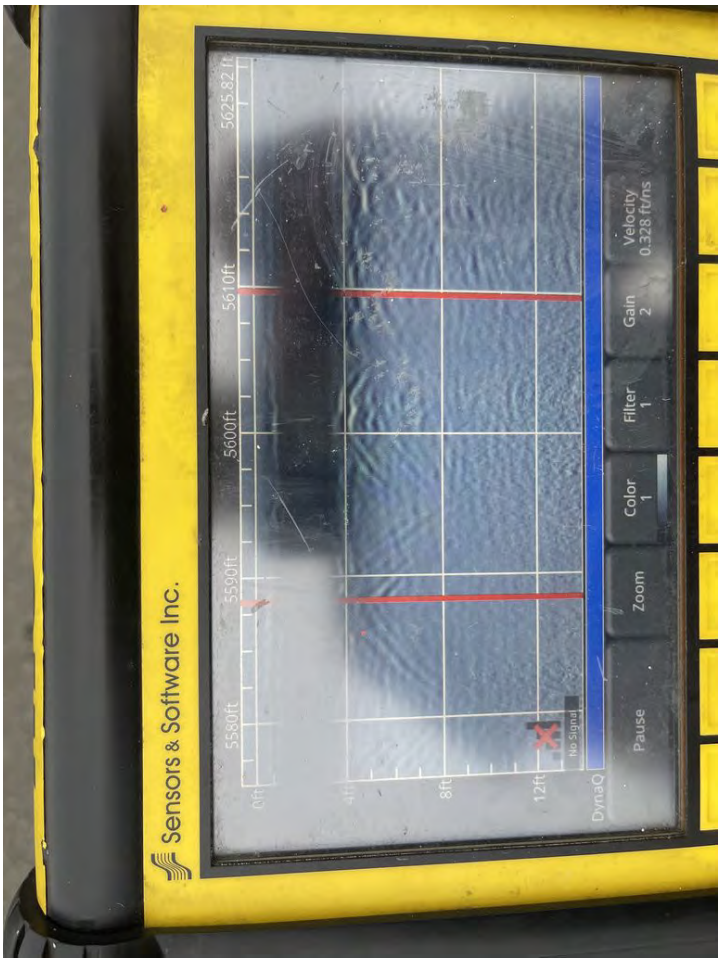

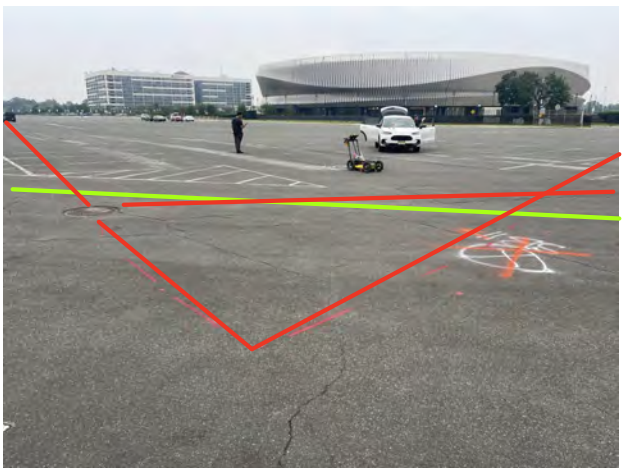

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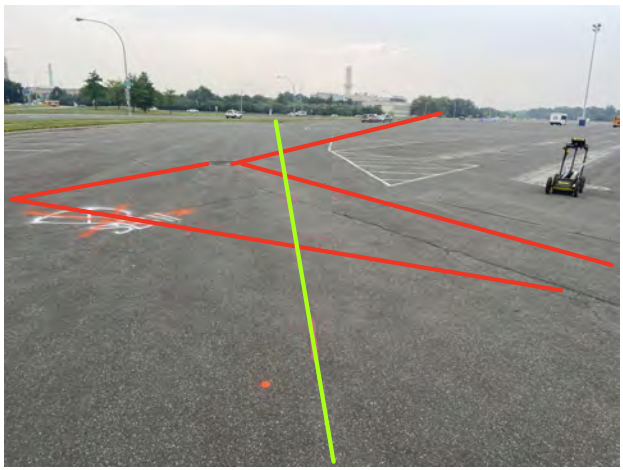

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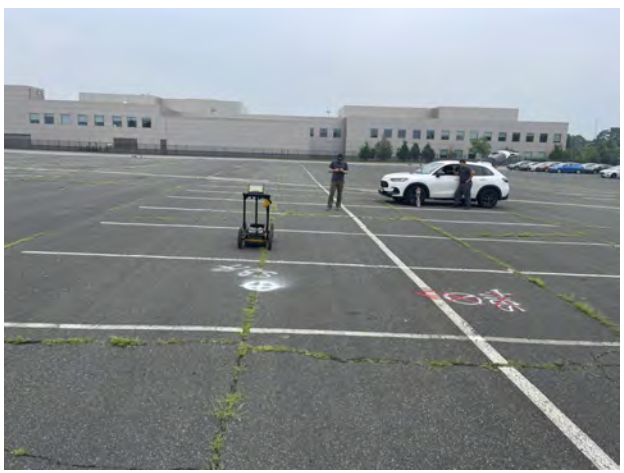

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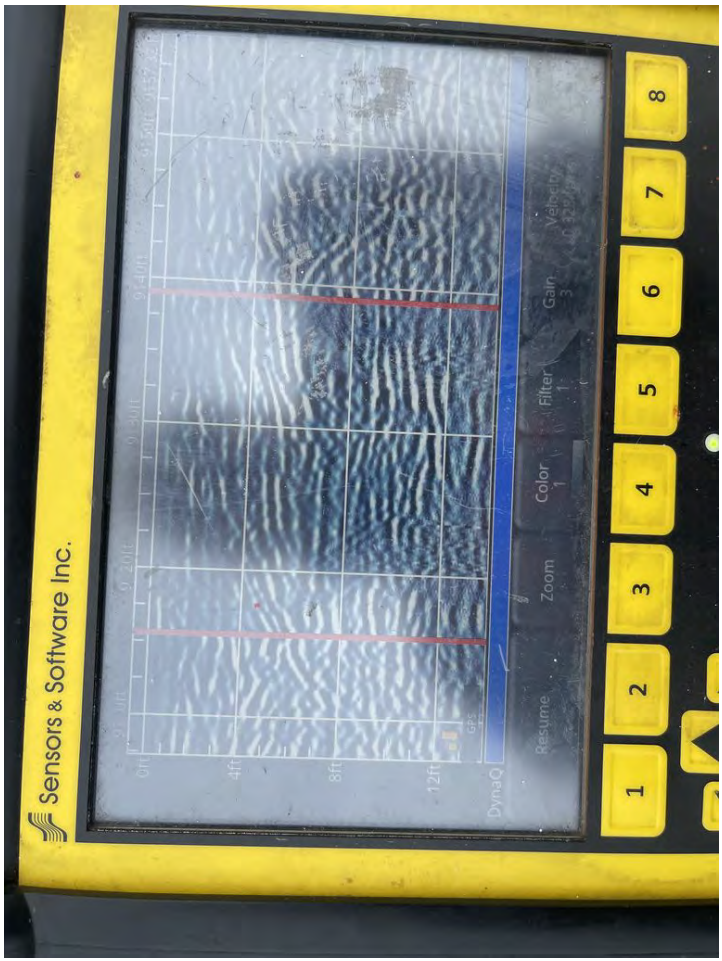

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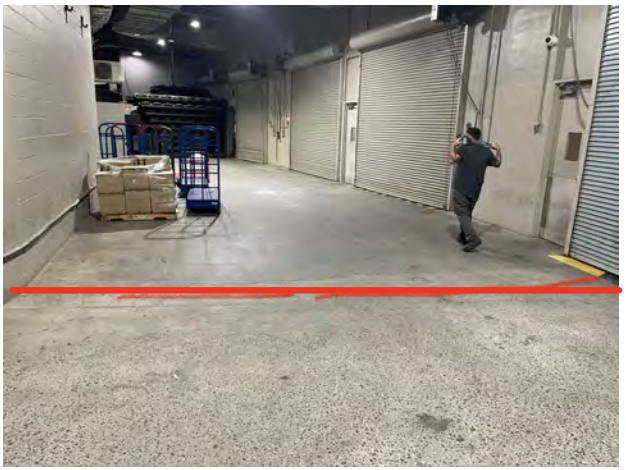

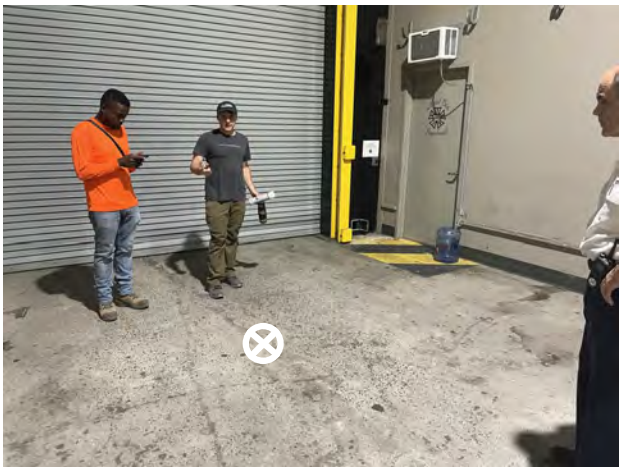

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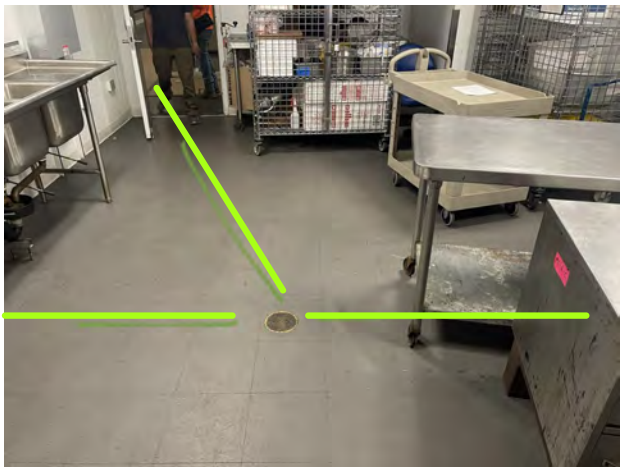

APPENDIX D

SOIL BORING LOGS

LANGAN

Log of Boring **SB-11** Sheet 1 of 2

Project: Project Maximus		Project No.: 170754501	
Location: 1255 Hempstead Turnpike, Uniondale, NY		Elevation and Datum: N/A	
Drilling Company: Lakewood Environmental Services		Date Started: 7/20/2023	Date Finished: 7/20/2023
Drilling Equipment: Geoprobe 6610DT		Completion Depth: 35.0 ft	Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push		Number of Samples: Disturbed 7	Undisturbed 0 / Core 0
Casing Diameter (in): N/A	Casing Depth (ft): N/A	Water Level (ft.): First ▽ 30.0	Completion ▼ N/A / 24 HR. ▼ N/A
Casing Hammer: N/A	Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Mike Kolasinski	
Sampler: 60-inch Macrocore		Field Engineer: Andrew Ashley	
Sampler Hammer: N/A	Weight (lbs): N/A / Drop (in): N/A		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	0.0	ASPHALT	0						Start Drilling 0ft @7/20/2023 11:19:26 AM
		Tannish brown to dark brown fine SAND, trace silt, trace fine gravel (moist) [FILL]	1	M-1A	Macrocore	36/54		0.0	
			2					0.0	
		Tannish brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	3	M-1B				0.0	
			4					0.0	
		Orangish tan medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	5	M-2	Macrocore	22/60		0.0	
			6					0.0	
			7					0.0	
			8						
			9						
		Orangish tan medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	10	M-3	Macrocore	29/60		0.0	
			11					0.0	
			12					0.0	
			13					0.0	
			14						
		Light tan to tannish brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	15	M-4A	Macrocore	40/60		0.0	
		Light tan to tannish brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	16					0.0	
			17	M-4B				0.0	
		Tannish brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	18					0.0	
			19	M-4C					
		Tannish brown to dark brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	20	M-5	Macrocore	34/60		0.0	
			21					0.0	
			22					0.0	
			23					0.0	SB11_22-24
			24						
			25						

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Log of Boring **SB-11** Sheet 2 of 2

Project: Project Maximus	Project No.: 170754501
Location: 1255 Hempstead Turnpike, Uniondale, NY	Elevation and Datum: N/A
Drilling Company: Lakewood Environmental Services	Date Started: 7/20/2023 — Date Finished: 7/20/2023
Drilling Equipment: Geoprobe 6610DT	Completion Depth: 35.0 ft — Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push	Number of Samples: Disturbed 7, Undisturbed 0, Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 30.0, Completion ▼ N/A, 24 HR. ▼ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Mike Kolasinski
Sampler: 60-inch Macrocore	Field Engineer: Andrew Ashley
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	-25.0	Light tan to tannish brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	25					0.0	
			26					0.0	
			27	M-6	Macrocore	13/60			
			28						
			29						
		Tannish brown medium SAND, trace silt, trace fine gravel (wet) [SP-SM]	30 ▽						
			31	M-7A				0.0	
		Tannish brown fine SAND, trace silt, trace fine gravel (wet) [SP-SM]	32	M-7B	Macrocore	30/60		0.0	
			33					0.0	
			34					0.0	
		End of Boring at 35ft.	35						Bottom of boring at 35 feet below ground surface (bgs). Boring backfilled to grade with clean soil cuttings and patched with asphalt.
			36						
			37						
			38						
			39						
			40						
			41						
			42						
			43						
			44						
			45						
			46						
			47						
			48						
			49						
			50						

LANGAN

Log of Boring **SB-12** Sheet 1 of 2

Project: Project Maximus	Project No.: 170754501
Location: 1255 Hempstead Turnpike, Uniondale, NY	Elevation and Datum: N/A
Drilling Company: Lakewood Environmental Services	Date Started: 7/20/2023 — Date Finished: 7/20/2023
Drilling Equipment: Geoprobe 6610DT	Completion Depth: 35.0 ft — Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push	Number of Samples: Disturbed 7, Undisturbed 0, Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A, Completion ▼ N/A, 24 HR. ⧩ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Mike Kolasinski
Sampler: 60-inch Macrocore	Field Engineer: Gabriella DeGennaro
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	0.0	Gray fine SAND, trace fine gravel, some medium sand (dry) [ASPHALT]	0	M-1A					Start Drilling: 0 ft, 7/20/2023 3:08:13 PM
		Dark brown fine SAND, trace medium sand, some silt (dry) [FILL]	1	M-1B				0.0	
		Tan medium SAND, some fine sand, trace silt, trace fine gravel (dry) [SP]	2					0.0	
			3	M-1C	Macrocore	45/60		0.0	
			4					0.0	
		Tan medium SAND, some fine sand, trace silt, trace fine gravel (dry) [SP]	5	M-2A				0.0	
		Orangish tan medium SAND, some fine sand, trace silt, trace fine gravel (dry) [SP]	6					0.0	
			7					0.0	
			8	M-2B	Macrocore	46/60		0.0	
			9					0.0	
		Orangish tan medium SAND, some fine sand, trace silt, trace fine gravel (dry) [SP]	10					0.0	
			11					0.0	
			12	M-3	Macrocore	45/60		0.0	
			13					0.0	SB12_12-14
			14					0.0	
		Brownish tan medium SAND, some fine sand, trace silt, trace fine gravel (dry) [SP]	15					0.0	
			16					0.0	
			17	M-4	Macrocore	28/60		0.0	
			18						
			19						
		Tan medium SAND, some fine sand, trace silt, trace fine gravel (dry) [SP]	20					0.0	
			21						
			22	M-5	Macrocore	8/60			
			23						
			24						
			25						

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Log of Boring **SB-12** Sheet 2 of 2

Project: Project Maximus	Project No.: 170754501
Location: 1255 Hempstead Turnpike, Uniondale, NY	Elevation and Datum: N/A
Drilling Company: Lakewood Environmental Services	Date Started: 7/20/2023 — Date Finished: 7/20/2023
Drilling Equipment: Geoprobe 6610DT	Completion Depth: 35.0 ft — Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push	Number of Samples: Disturbed 7, Undisturbed 0, Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A, Completion ▼ N/A, 24 HR. ⧩ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Mike Kolasinski
Sampler: 60-inch Macrocore	Field Engineer: Gabriella DeGennaro
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	-25.0	Tan medium SAND, some fine sand, trace silt, trace fine gravel (moist) [SP]	25	M-6A				0.0	
		Brownish tan medium SAND, some fine sand, trace silt, trace fine gravel (moist) [SP]	26					0.0	
			27	M-6B	Macrocore	14/60			
			28						
			29						
		Orangish tan medium SAND, some fine sand, trace silt, trace fine gravel (wet) [SP]	30					0.0	
			31					0.0	
			32	M-7	Macrocore	26/60		0.0	
			33					0.0	
			34						
		End of Boring at 35ft.	35						Bottom of boring at 35 feet below ground surface (bgs). Borehole backfilled to grade with clean soil cuttings and patched with asphalt.
			36						
			37						
			38						
			39						
			40						
			41						
			42						
			43						
			44						
			45						
			46						
			47						
			48						
			49						
			50						

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Log of Boring **SB-13** Sheet 1 of 2

Project: Project Maximus	Project No.: 170754501
Location: 1255 Hempstead Turnpike, Uniondale, NY	Elevation and Datum: N/A
Drilling Company: Lakewood Environmental Services	Date Started: 7/21/2023 — Date Finished: 7/21/2023
Drilling Equipment: Geoprobe 6610DT	Completion Depth: 35.0 ft — Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push	Number of Samples: Disturbed 7 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ N/A — 24 HR. ▼ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Mike Kolasinski
Sampler: 60-inch Macrocore	Field Engineer: Kaitlyn Gioia
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	0.0	ASPHALT	0					0.0	Start Drilling: 0 ft, 7/21/2023 1:23:33 PM
		Gray medium to fine SAND, some fine gravel, trace concrete (moist) [FILL]	1	M-1A	Macrocore	52/60		0.0	
			2					0.0	03:00 PM - Collect Grab Sample SB13_2-4.
			3					0.0	
			4	M-1B				0.0	
		Orangish tan medium to fine SAND, some fine gravel (moist) [SP][Sand]	5					0.0	
		Orangish tan medium to fine SAND, some fine gravel (moist) [SP][Sand]	6	M-2	Macrocore	60/60		0.0	
			7					0.0	
			8					0.0	
			9					0.0	
			10					0.0	
		Orangish tan medium to fine SAND, trace fine gravel, trace coarse sand (moist) [SP][Sand]	11	M-3	Macrocore	42/60		0.0	
			12					0.0	
			13					0.0	
			14					0.0	
			15					0.0	
		Orangish grayish tan medium to fine SAND, trace fine gravel, some coarse sand (wet) [SP][Sand]	16	M-4	Macrocore	9/60		0.0	
			17						
			18						
			19						
			20					0.0	
		Light tan medium to fine SAND, trace fine gravel, some coarse sand (wet) [SP][Sand]	21	M-5	Macrocore	44/60		0.0	
			22					0.0	
			23					0.0	
			24					0.0	
			25						

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Log of Boring **SB-13** Sheet 2 of 2

Project: Project Maximus		Project No.: 170754501	
Location: 1255 Hempstead Turnpike, Uniondale, NY		Elevation and Datum: N/A	
Drilling Company: Lakewood Environmental Services		Date Started: 7/21/2023	Date Finished: 7/21/2023
Drilling Equipment: Geoprobe 6610DT		Completion Depth: 35.0 ft	Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push		Number of Samples: Disturbed 7	Undisturbed 0 / Core 0
Casing Diameter (in): N/A	Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A	Completion ▼ N/A / 24 HR. ▼ N/A
Casing Hammer: N/A	Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Mike Kolasinski	
Sampler: 60-inch Macrocore		Field Engineer: Kaitlyn Gioia	
Sampler Hammer: N/A	Weight (lbs): N/A / Drop (in): N/A		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	-25.0		25						Groundwater assumed to be at about 25 feet bgs.
		No Recovery	26						
			27						
			28	M-6	Macrocore	0/60			
			29						
			30					0.0	
		Orangish tan medium to fine SAND, some fine gravel, some coarse sand (wet) [SP][Sand]	31						
			32						
			33	M-7	Macrocore	0/60			
			34						
			35						
		End of Boring at 35ft.	36						Bottom of boring at 35 feet below ground surface (bgs). Borehole backfilled to grade with clean soil cuttings and sand and patched with asphalt.
			37						
			38						
			39						
			40						
			41						
			42						
			43						
			44						
			45						
			46						
			47						
			48						
			49						
			50						

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Log of Boring **SB-14** Sheet 1 of 2

Project: Project Maximus		Project No.: 170754501	
Location: 1255 Hempstead Turnpike, Uniondale, NY		Elevation and Datum: N/A	
Drilling Company: Lakewood Environmental Services		Date Started: 7/20/2023	Date Finished: 7/20/2023
Drilling Equipment: Geoprobe 6610DT		Completion Depth: 40.0 ft	Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push		Number of Samples: Disturbed 8	Undisturbed 0 / Core 0
Casing Diameter (in): N/A	Casing Depth (ft): N/A	Water Level (ft.): First ▽ 29.0	Completion ▼ N/A / 24 HR. ▼ N/A
Casing Hammer: N/A	Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Mike Kolasinski	
Sampler: 60-inch Macrocore		Field Engineer: Andrew Ashley	
Sampler Hammer: N/A	Weight (lbs): N/A / Drop (in): N/A		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	0.0	ASPHALT	0						Start Drilling 0ft @7/20/2023 4:01:37 PM
		Brown to dark brown fine SAND, trace silt, trace fine gravel (moist) [FILL]	1	M-1A	Macrocore	33/54		0.0	
			2					0.0	
		Tannish brown fine SAND, trace silt, trace fine gravel (moist) [FILL]	3	M-1B				0.0	
		Dark brown to tannish brown fine SAND, trace silt, trace fine gravel (moist) [FILL]	4	M-1C				0.0	
		Light tan to brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	5					0.0	
			6					0.0	
			7	M-2	Macrocore	50/60		0.0	
			8					0.0	
			9					0.0	
		Tannish brown to brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	10					0.0	
			11					0.0	
			12	M-3	Macrocore	20/60		0.0	
			13						
			14						
		Tannish brown to brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	15					0.0	
			16					0.0	
			17	M-4	Macrocore	27/60		0.0	
			18						
			19						SB14_18-20
		Tannish brown to brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	20					0.0	
			21					0.0	
			22	M-5	Macrocore	34/60		0.0	
			23					0.0	
			24						
			25						

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Log of Boring **SB-14** Sheet 2 of 2

Project: Project Maximus		Project No.: 170754501	
Location: 1255 Hempstead Turnpike, Uniondale, NY		Elevation and Datum: N/A	
Drilling Company: Lakewood Environmental Services		Date Started: 7/20/2023	Date Finished: 7/20/2023
Drilling Equipment: Geoprobe 6610DT		Completion Depth: 40.0 ft	Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push		Number of Samples: Disturbed 8	Undisturbed 0 / Core 0
Casing Diameter (in): N/A	Casing Depth (ft): N/A	Water Level (ft.): First ▽ 29.0	Completion ▼ N/A / 24 HR. ▽ N/A
Casing Hammer: N/A	Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Mike Kolasinski	
Sampler: 60-inch Macrocore		Field Engineer: Andrew Ashley	
Sampler Hammer: N/A	Weight (lbs): N/A / Drop (in): N/A		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	-25.0	Tannish brown to brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	25	M-6A				0.0	
		Tannish brown to brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	26					0.0	
			27					0.0	
			28	M-6B	Macrocore	21/60			
			29 ▽						
		Tannish brown to brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	30					0.0	
			31						
			32	M-7	Macrocore	9/60			
			33						
			34						
		Tannish brown to brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	35					0.0	
			36						
			37	M-8	Macrocore	8/60			
			38						
			39						
		End of Boring at 40ft.	40						Bottom of boring at 40 feet below ground surface (bgs). Temporary monitoring well installed at 40 feet bgs.
			41						
			42						
			43						
			44						
			45						
			46						
			47						
			48						
			49						
			50						

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Log of Boring **SB-15** Sheet 1 of 2

Project: Project Maximus	Project No.: 170754501
Location: 1255 Hempstead Turnpike, Uniondale, NY	Elevation and Datum: N/A
Drilling Company: Lakewood Environmental Services	Date Started: 7/19/2023 — Date Finished: 7/19/2023
Drilling Equipment: Geoprobe 6610DT	Completion Depth: 35.0 ft — Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push	Number of Samples: Disturbed 7 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ N/A — 24 HR. ⧩ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Mike Kolasinski
Sampler: 60-inch Macrocore	Field Engineer: Gabriella DeGennaro
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Number	Sample Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)
	0.0	ASPHALT	0					0.0
		Light gray to gray fine SAND, some medium sand, trace fine gravel (dry) [FILL]	1	M-1A	Macrocore	46/54		0.0
		Dark brown medium SAND, some fine sand, trace fine gravel, trace silt (dry) [FILL]	2	M-1B				0.0
		Dark brown SILT, some fine sand, trace fine gravel (dry) [SM]		M-1C				0.0
		Light tan SILT, some fine sand, trace fine gravel (dry) [SM]	3					0.0
			4	M-1D				0.0
		Orangish tan medium SAND, some fine sand, trace fine gravel (dry) [SP]	5	M-2A				
		Tan medium SAND, some fine sand, trace fine gravel (dry) [SP]	6					
			7					
			8	M-2B		46/60		
			9					
		Light gray SILT, some fine sand, trace fine gravel, trace clay (dry) [SM]	10	M-3A				0.0
			11					0.0
		Orangish tan medium SAND, some fine sand, trace fine gravel (dry) [SP]		M-3B				0.0
		Tan medium SAND, some fine sand, trace fine gravel (dry) [SP]	12					0.0
			13					0.0
				M-3C		50/60		0.0
			14					0.0
		Light tan medium SAND, some fine sand, trace fine gravel (dry) [SP]	15					0.0
			16					0.0
								0.0
			17					0.0
				M-4		44/60		0.0
			18					0.0
			19					0.0
		Light tan medium SAND, some fine sand, trace fine gravel (dry) [SP]	20					0.0
			21					0.0
								0.0
			22	M-5		22/60		0.0
			23					
			24					
			25					

Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)

Start Drilling: 0 ft, 7/19/2023 8:15:18 AM ; Sample collected from 0 - 2 feet bgs.; Grab sample taken from 0 - 2 feet bgs.

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Log of Boring **SB-15** Sheet 2 of 2

Project: Project Maximus	Project No.: 170754501
Location: 1255 Hempstead Turnpike, Uniondale, NY	Elevation and Datum: N/A
Drilling Company: Lakewood Environmental Services	Date Started: 7/19/2023 — Date Finished: 7/19/2023
Drilling Equipment: Geoprobe 6610DT	Completion Depth: 35.0 ft — Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push	Number of Samples: Disturbed 7 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ N/A — 24 HR. ▼ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Mike Kolasinski
Sampler: 60-inch Macrocore	Field Engineer: Gabriella DeGennaro
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	-25.0	Tan medium SAND, some fine sand, trace fine gravel (dry) [SP]	25					0.0	
								0.0	
			26	M-6A				0.0	
		Light tannish brown to tan fine SAND, some medium sand, trace silt (moist) [SP]						0.0	
			27	M-6B	Macrocore	39/60		0.0	
		Tan medium SAND, some fine sand, trace fine gravel (moist) [SP]						0.0	
			28					0.0	
				M-6C					
			29						
		Tan medium SAND, some fine sand, trace fine gravel (moist) [SP]	30					0.0	
								0.0	
			31					0.0	
								0.0	
			32	M-7	Macrocore	27/60		0.0	
			33						
			34						
		End of Boring at 35ft.	35						Bottom of boring at 35 feet below ground surface (bgs). Borehole backfilled to grade with clean soil cuttings and patched with asphalt.
			36						
			37						
			38						
			39						
			40						
			41						
			42						
			43						
			44						
			45						
			46						
			47						
			48						
			49						
			50						

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Log of Boring **SB-16** Sheet 1 of 2

Project: Project Maximus		Project No.: 170754501	
Location: 1255 Hempstead Turnpike, Uniondale, NY		Elevation and Datum: N/A	
Drilling Company: Lakewood Environmental Services		Date Started: 7/19/2023	Date Finished: 7/19/2023
Drilling Equipment: Geoprobe 6610DT		Completion Depth: 35.0 ft	Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push		Number of Samples: Disturbed 7	Undisturbed 0 / Core 0
Casing Diameter (in): N/A	Casing Depth (ft): N/A	Water Level (ft.): First ▽ 33.0	Completion ▼ N/A / 24 HR. ▼ N/A
Casing Hammer: N/A	Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Mike Kolasinski	
Sampler: 60-inch Macrocore		Field Engineer: Andrew Ashley	
Sampler Hammer: N/A	Weight (lbs): N/A / Drop (in): N/A		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	0.0	ASPHALT	0						Start Drilling 0ft @7/19/2023 3:16:04 PM
		Gray to dark brown fine SAND, some silt, trace fine gravel (moist) [FILL]	1	M-1A	Macrocore	47/54		0.0	
		Tannish brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	2	M-1B				0.0	
		Tannish brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	3	M-1C				0.0	
			4					0.0	
		Tannish brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	5	M-2A				0.0	
		Tannish brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	6					0.0	
			7	M-2B	Macrocore	60/60		0.0	
			8					0.0	
			9					0.0	
		Tannish brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	10	M-3A				0.0	
			11					0.0	
		Tannish brown fine SAND, trace silt, trace fine gravel (dry) [SP-SM]	12					0.0	
			13	M-3B	Macrocore	44/60		0.0	
			14					0.0	
		Tannish brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	15					0.0	
			16					0.0	
			17	M-4	Macrocore	48/60		0.0	SB17_13-15
			18					0.0	
			19					0.0	
		Tannish brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	20	M-5A				0.0	
		Orangish tan medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	21					0.0	
			22					0.0	
			23	M-5B	Macrocore	40/60		0.0	
			24						
			25						

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Log of Boring **SB-16** Sheet 2 of 2

Project: Project Maximus	Project No.: 170754501
Location: 1255 Hempstead Turnpike, Uniondale, NY	Elevation and Datum: N/A
Drilling Company: Lakewood Environmental Services	Date Started: 7/19/2023 — Date Finished: 7/19/2023
Drilling Equipment: Geoprobe 6610DT	Completion Depth: 35.0 ft — Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push	Number of Samples: Disturbed 7, Undisturbed 0, Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 33.0, Completion ▼ N/A, 24 HR. ▼ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Mike Kolasinski
Sampler: 60-inch Macrocore	Field Engineer: Andrew Ashley
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	-25.0	Tannish brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	25					0.0	
			26					0.0	
			27	M-6	Macrocore	30/60		0.0	
			28					0.0	
			29						
		Tan medium SAND, trace silt, trace fine gravel (wet) [SP-SM]	30						
			31					0.0	
			32	M-7	Macrocore	15/60		0.0	
			33 ▽						
			34						
		End of Boring at 35ft.	35						End of boring at 35 feet below ground surface (bgs). Temporary monitoring well TMW16 installed at 40 feet bgs.
			36						
			37						
			38						
			39						
			40						
			41						
			42						
			43						
			44						
			45						
			46						
			47						
			48						
			49						
			50						

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Log of Boring **SB-17** Sheet 1 of 2

Project: Project Maximus	Project No.: 170754501
Location: 1255 Hempstead Turnpike, Uniondale, NY	Elevation and Datum: N/A
Drilling Company: Lakewood Environmental Services	Date Started: 7/19/2023 — Date Finished: 7/19/2023
Drilling Equipment: Geoprobe 6610DT	Completion Depth: 35.0 ft — Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push	Number of Samples: Disturbed 7 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 33.0 — Completion ▼ N/A — 24 HR. ▼ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Mike Kolasinski
Sampler: 60-inch Macrocore	Field Engineer: Andrew Ashley
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Number	Sample Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	0.0	ASPHALT	0						Start Drilling 0ft @7/19/2023 11:20:12 AM
		Tannish brown medium SAND, trace silt, trace fine gravel (moist) [FILL]	1	M-1A	Macrocore	33/54		0.0	
			2					0.0	
		Dark brown fine SAND, trace silt, trace fine gravel (moist) [FILL]	3	M-1B				0.0	SB17_2-4
			4					0.0	
		Tannish brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	5	M-2	Macrocore	42/60		0.0	
			6					0.0	
			7					0.0	
			8					0.0	
			9					0.0	
		Tannish brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	10	M-3	Macrocore	58/60		0.0	
			11					0.0	
			12					0.0	
			13					0.0	
			14					0.0	
		Light gray to tannish brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	15	M-4A	Macrocore	36/60		0.0	
			16					0.0	
		Tannish brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	17	M-4B				0.0	
			18					0.0	
			19					0.0	
		Light gray to tannish brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	20	M-5A	Macrocore	30/60		0.0	
			21					0.0	
		Light tan fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	22	M-5B				0.0	
			23					0.0	
			24					0.0	
			25					0.0	

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Log of Boring **SB-17** Sheet 2 of 2

Project: Project Maximus	Project No.: 170754501
Location: 1255 Hempstead Turnpike, Uniondale, NY	Elevation and Datum: N/A
Drilling Company: Lakewood Environmental Services	Date Started: 7/19/2023 — Date Finished: 7/19/2023
Drilling Equipment: Geoprobe 6610DT	Completion Depth: 35.0 ft — Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push	Number of Samples: Disturbed 7, Undisturbed 0, Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 33.0, Completion ▼ N/A, 24 HR. ▼ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Mike Kolasinski
Sampler: 60-inch Macrocore	Field Engineer: Andrew Ashley
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Number	Sample Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	-25.0	Tannish brown to brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	25	M-6A	Macrocore	36/60			
		Orangish tan medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	26–28	M-6B					
		Orangish tan medium SAND, trace silt, trace fine gravel (wet) [SP-SM]	29–30	M-7A				0.0	
		Orangish tan fine SAND, trace silt, trace fine gravel (wet) [SP-SM]	31–33	M-7B	Macrocore	18/60		0.0	
		End of Boring at 35ft.	34–35						End of boring at 35 feet below ground surface (bgs). Borehole backfilled to grade with clean soil cuttings patch with asphalt.
			36–50						

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Log of Boring **SB-18** Sheet 1 of 2

Project: Project Maximus		Project No.: 170754501	
Location: 1255 Hempstead Turnpike, Uniondale, NY		Elevation and Datum: N/A	
Drilling Company: Lakewood Environmental Services		Date Started: 7/20/2023	Date Finished: 7/20/2023
Drilling Equipment: Geoprobe 6610DT		Completion Depth: 40.0 ft	Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push		Number of Samples: Disturbed 8	Undisturbed 0 / Core 0
Casing Diameter (in): N/A	Casing Depth (ft): N/A	Water Level (ft.): First ▽ 30.0	Completion ▼ N/A / 24 HR. ▼ N/A
Casing Hammer: N/A	Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Mike Kolasinski	
Sampler: 60-inch Macrocore		Field Engineer: Andrew Ashley	
Sampler Hammer: N/A	Weight (lbs): N/A / Drop (in): N/A		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	0.0	ASPHALT	0						Start Drilling 0ft @7/20/2023 9:27:24 AM
		Tannish brown fine SAND, trace silt, trace fine gravel (moist) [FILL]	1	M-1A				0.0	
				M-1B				0.0	
		Grayish brown to dark brown fine SAND, trace silt, trace fine gravel (moist) [FILL]	2					0.0	
		Tannish brown to orangish tan fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	3	M-1C	Macrocore	35/60		0.0	
			4						
		Tannish brown to orangish tan medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	5						
			6	M-2	Macrocore	25/60		0.0	
			7					0.0	
			8					0.0	
			9					0.0	
		Tan fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	10	M-3A				0.0	
		Tannish brown to orangish brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	11	M-3B				0.0	
		Tan medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	12		Macrocore	36/60		0.0	
			13	M-3C				0.0	
			14						
		Tannish brown medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	15	M-4A				0.0	
		Tan fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	16	M-4B				0.0	
		Tannish brown to orangish brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	17	M-4C				0.0	
		Light tan fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	18	M-4D	Macrocore	40/60		0.0	
			19						
		Light tan to tan medium SAND, trace silt, trace fine gravel (moist) [SP-SM]	20					0.0	
			21	M-5A				0.0	
			22					0.0	
		Orangish brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	23	M-5B	Macrocore	50/60		0.0	SB18_22-24
			24					0.0	
			25						

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Log of Boring **SB-18** Sheet 2 of 2

Project: Project Maximus	Project No.: 170754501
Location: 1255 Hempstead Turnpike, Uniondale, NY	Elevation and Datum: N/A
Drilling Company: Lakewood Environmental Services	Date Started: 7/20/2023 — Date Finished: 7/20/2023
Drilling Equipment: Geoprobe 6610DT	Completion Depth: 40.0 ft — Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push	Number of Samples: Disturbed 8, Undisturbed 0, Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 30.0, Completion ▼ N/A, 24 HR. ▼ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Mike Kolasinski
Sampler: 60-inch Macrocore	Field Engineer: Andrew Ashley
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Number	Sample Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	-25.0	Orangish brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	25–30	M-6	Macrocore	44/60		0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	
		Orangish brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	30	M-7A	Macrocore	41/60		0.0	
		Tan fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	31	M-7B	Macrocore			0.0	
		Orangish brown fine SAND, trace silt, trace fine gravel (wet) [SP-SM]	32–33	M-7C	Macrocore			0.0, 0.0, 0.0	
		Light tan medium SAND, trace silt, trace fine gravel (wet) [SP-SM]	34–37	M-8	Macrocore	6/60		0.0	
		End of Boring at 40ft.	40						End of boring at 40 feet below ground surface (bgs). Installed temporary monitoring well TMW18 at 40 feet bgs.
			41–50						

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Log of Boring **SB-19** Sheet 1 of 2

Project: Project Maximus	Project No.: 170754501
Location: 1255 Hempstead Turnpike, Uniondale, NY	Elevation and Datum: N/A
Drilling Company: Lakewood Environmental Services	Date Started: 7/21/2023 — Date Finished: 7/21/2023
Drilling Equipment: Geoprobe 6610DT	Completion Depth: 35.3 ft — Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push	Number of Samples: Disturbed 7, Undisturbed 0, Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A, Completion ▼ N/A, 24 HR. ▼ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Mike Kolasinski
Sampler: 60-inch Macrocore	Field Engineer: Kaitlyn Gioia
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	0.0	ASPHALT	0					0.0	Start Drilling: 0 ft, 7/21/2023 11:06:59 AM
		Orangish grayish tan fine to medium SAND, some fine gravel, trace concrete (moist) [FILL][Fill]	1					0.0	
			2	M-1A	Macrocore	48/60		0.0	
			3					0.0	
			4	M-1B				0.0	
		Orangish tan fine to medium SAND, some fine gravel, trace clay, some silt (moist) [SP][Sand]	5					0.0	12:30 PM - Collect Grab Sample SB19_5-7.
		Orangish tan fine to medium SAND, some fine gravel, trace clay, some silt (moist) [SP][Sand]	6	M-2A					
		Orangish tan fine to medium SAND, some fine gravel, some silt (moist) [SP][Sand]	7						
			8	M-2B	Macrocore	55/60			
			9						
			10					0.0	
		Orangish tan fine to medium SAND, some fine gravel, some silt (moist) [SP][Sand]	11					0.0	
			12					0.0	
			13	M-3	Macrocore	37/60		0.0	
			14					0.0	
			15						
		Orangish tan fine to medium SAND, some fine gravel, some silt (moist) [SP][Sand]	16					0.0	
			17					0.0	
			18	M-4	Macrocore	14/60			
			19						
			20					0.0	
		Orangish tan fine to medium SAND, some fine gravel, some silt (moist) [SP][Sand]	21					0.0	
			22					0.0	
			23	M-5	Macrocore	41/60		0.0	
			24					0.0	
			25					0.0	

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Log of Boring **SB-19** Sheet 2 of 2

Project: Project Maximus	Project No.: 170754501
Location: 1255 Hempstead Turnpike, Uniondale, NY	Elevation and Datum: N/A
Drilling Company: Lakewood Environmental Services	Date Started: 7/21/2023 — Date Finished: 7/21/2023
Drilling Equipment: Geoprobe 6610DT	Completion Depth: 35.3 ft — Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push	Number of Samples: Disturbed 7, Undisturbed 0, Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A, Completion ▼ N/A, 24 HR. ⧩ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Mike Kolasinski
Sampler: 60-inch Macrocore	Field Engineer: Kaitlyn Gioia
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	-25.0	Orangish tan fine to medium SAND, some fine gravel, some silt (moist) [SP][Sand]	25–35	M-6	Macrocore	10/60		0.0 0.0	
		No Recovery		M-7	Macrocore	0/60			
		End of Boring at 35.3ft.	35–50						Bottom of boring at 35 feet below ground surface (bgs). Borehole backfilled to grade with clean soil cuttings and clean sand patched with asphalt.

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Log of Boring **SB-20** Sheet 1 of 2

Project: Project Maximus		Project No.: 170754501	
Location: 1255 Hempstead Turnpike, Uniondale, NY		Elevation and Datum: N/A	
Drilling Company: Lakewood Environmental Services		Date Started: 7/19/2023	Date Finished: 7/19/2023
Drilling Equipment: Geoprobe 6610DT		Completion Depth: 35.0 ft	Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push		Number of Samples: Disturbed 7	Undisturbed 0 / Core 0
Casing Diameter (in): N/A	Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A	Completion ▼ N/A / 24 HR. ▼ N/A
Casing Hammer: N/A	Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Mike Kolasinski	
Sampler: 60-inch Macrocore		Field Engineer: Gabriella DeGennaro	
Sampler Hammer: N/A	Weight (lbs): N/A / Drop (in): N/A		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	0.0	ASPHALT	0					0.0	Start Drilling: 0 ft, 7/19/2023 1:57:32 PM
		Dark brown to black fine SAND, trace medium sand, some silt (dry) [FILL]	1	M-1A				0.0	
		Orangish tan SAND, some fine sand, trace fine gravel (dry) [SP]	2					0.0	
				M-1B	Macrocore	54/54		0.0	SB20_2-4
			3					0.0	
			4					0.0	
								0.0	
		Orangish tan SAND, some fine sand, trace fine gravel (dry) [SP]	5					0.0	
			6					0.0	
				M-2	Macrocore	12/60			
			7						
			8						
			9						
		Orangish tan SAND, some fine sand, trace fine gravel (dry) [SP]	10					0.0	
				M-3A				0.0	
		Tan medium SAND, some fine sand, trace fine gravel (dry) [SP]	11					0.0	
			12					0.0	
				M-3B	Macrocore	54/60		0.0	
			13					0.0	
			14					0.0	
								0.0	
		No Recovery	15						
			16						
			17	M-4	Macrocore	0/60			
			18						
			19						
			20					0.0	
		Tan medium SAND, some fine sand, trace fine gravel (moist) [SP]						0.0	
			21					0.0	
			22					0.0	
				M-5	Macrocore	48/60		0.0	
			23					0.0	
								0.0	
			24					0.0	
			25						

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Log of Boring **SB-20** Sheet 2 of 2

Project: Project Maximus	Project No.: 170754501
Location: 1255 Hempstead Turnpike, Uniondale, NY	Elevation and Datum: N/A
Drilling Company: Lakewood Environmental Services	Date Started: 7/19/2023 — Date Finished: 7/19/2023
Drilling Equipment: Geoprobe 6610DT	Completion Depth: 35.0 ft — Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push	Number of Samples: Disturbed 7, Undisturbed 0, Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A, Completion ▼ N/A, 24 HR. ▽ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Mike Kolasinski
Sampler: 60-inch Macrocore	Field Engineer: Gabriella DeGennaro
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	-25.0	Tan medium SAND, some fine sand, trace fine gravel (moist) [SP]	25					0.0	
			26					0.0	
			27	M-6	Macrocore	45/60		0.0	
			28					0.0	
			29					0.0	
		Tan medium SAND, some fine sand, trace fine gravel (moist) [SP]	30					0.0	
			31					0.0	
			32	M-7	Macrocore	40/60		0.0	
			33					0.0	
			34					0.0	
		End of Boring at 35ft.	35						Bottom of boring at 35 feet below ground surface (bgs). Borehole backfilled to grade with clean soil cuttings and patched with asphalt.
			36						
			37						
			38						
			39						
			40						
			41						
			42						
			43						
			44						
			45						
			46						
			47						
			48						
			49						
			50						

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Log of Boring **SB-21** Sheet 1 of 1

Project: Project Maximus		Project No.: 170754501	
Location: 1255 Hempstead Turnpike, Uniondale, NY		Elevation and Datum: N/A	
Drilling Company: Lakewood Environmental Services		Date Started: 7/21/2023	Date Finished: 7/21/2023
Drilling Equipment: Geoprobe 6610DT		Completion Depth: 15.0 ft	Rock Depth: N/E
Size and Type of Bit: 2-inch Diameter Direct Push		Number of Samples: Disturbed 3	Undisturbed 0 / Core 0
Casing Diameter (in): N/A	Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A	Completion ▼ N/A / 24 HR. ▼ N/A
Casing Hammer: N/A	Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Mike Kolasinski	
Sampler: 60-inch Macrocore		Field Engineer: Kaitlyn Gioia	
Sampler Hammer: N/A	Weight (lbs): N/A / Drop (in): N/A		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Number	Sample Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	0.0	CONCRETE	0					0.1	Start Drilling: 0 ft, 7/21/2023 7:13:52 AM
		Orangish grayish tan medium to fine SAND, trace silt (moist) [FILL][Fill]	1	M-1A	Macrocore	46/52		0.2	
			2					0.3	
			3					0.3	
		Orangish grayish tan medium to fine SAND, some fine gravel, trace silt (moist) [FILL][Fill]	4	M-1B				0.4	
				M-1C				0.3	
			5					0.2	
		Orangish tan medium to fine SAND, some fine gravel, trace silt (moist) [SP][Sand]						0.1	
		Grayish tan medium to fine SAND, some coarse sand, some fine gravel, trace silt (wet) [SP][Sand]	6	M-2A				0.1	Groundwater at 5 feet below cellar grade.; 09:43 AM - Collect Grab Sample SB21_5-7 (From groundwater interface).
								0.0	
		Orangish tan medium to fine SAND, some coarse sand, some fine gravel, trace silt (wet) [SP][Sand]	7	M-2B	Macrocore	60/60		0.0	
								0.0	
			8					0.0	
								0.0	
			9					0.0	
								0.0	
		Orangish tan medium to fine SAND, some coarse sand, some fine gravel, trace silt (wet) [SP][Sand]	10					0.0	
								0.0	
			11						
			12	M-3	Macrocore	10/60			
			13						
			14						
		End of Boring at 15ft.	15						Bottom of boring at 15 feet below ground surface (bgs). Borhole backfilled to grade with clean soil cuttings and sand and capped with concrete.
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						
			25						

APPENDIX E

MONITORING WELL CONSTRUCTION AND GROUNDWATER SAMPLING LOGS

Appendix E
Phase II Environmental Site Investigation Report
Monitoring Well Construction and Groundwater Sampling Logs

Project Maximus
Uniondale, New York
Langan Project No.: 170754501

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. TMW11

PROJECT		PROJECT NO.	
Project Maximus		170754501	
LOCATION		**ELEVATION AND DATUM**	
1255 Hempstead Turnpike, Uniondale, NY		el. N/A N/A	
DRILLING AGENCY		**DATE STARTED**	**DATE FINISHED**
Lakewood Environmental Services		7/20/2023	7/20/2023
DRILLING EQUIPMENT		**DRILLER**	
Geoprobe® 6610 DT		Mike Kolasinski	
SIZE AND TYPE OF BIT		**INSPECTOR**	
2-inch Direct Push		Andrew Ashley	
BOREHOLE DIAMETER		**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
2-inch		Overburden	
RISER MATERIAL	**DIAMETER**	**TYPE OF BACKFILL MATERIAL**	
PVC	1-inch	No. 1 Sand	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 10 Slot	1-inch	No. 1 Sand	Bentonite

METHOD OF INSTALLATION

Lakewood Environmental Services used a Geoprobe 6610 DT to advance a boring to about 40 feet below ground surface (bgs). A one-inch (1") PVC temporary monitoring well was installed which consisted of about 10 feet of 10 slot (0.010-inch) well screen. Well screen was installed from about 30 to 40 feet bgs. Clean No. 1 sand was used to backfill the borehole annulus from about 40 to 4 feet bgs and bentonite seal was placed above the sand pack.

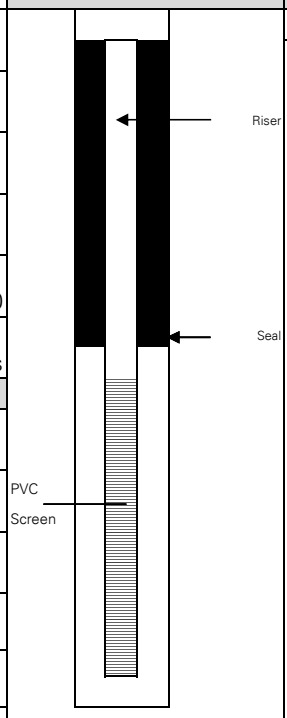
WELL DEVELOPMENT DATA

SURGE BLOCK DIAMETER	N/A	**TYPE PUMP**	Bailer	**DEVELOPMENT CONFIRMATION**
DRILLER OR LANGAN	Langan	**MAX PUMP RATE**		
NUMBER OF SURGE CYCLES	N/A	**TOTAL VOLUME**	1.35	N/A

TOP OF CASING **ELEVATION** N/A	**DEPTH (ft)** 0	
TOP OF SEAL **ELEVATION** N/A	**DEPTH (ft)** 0	
TOP OF FILTER **ELEVATION** N/A	**DEPTH (ft)** 4	
TOP OF SCREEN **ELEVATION** N/A	**DEPTH (ft)** 30.0	
BOTTOM OF BORING **ELEVATION** N/A	**DEPTH (ft)** 40	
SCREEN LENGTH	10	
SLOT SIZE	No. 10 Slot; 0.010 Inches	

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
	7/20/2023	32.5



WELL DETAILS	SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
		0
		4
		30
		40.0

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Appendix E
Phase II Environmental Site Investigation Report
Monitoring Well Construction and Groundwater Sampling Logs

Project Maximus
Uniondale, New York
Langan Project No.: 170754501

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. TMW14

PROJECT		PROJECT NO.	
Project Maximus		170754501	
LOCATION		**ELEVATION AND DATUM**	
1255 Hempstead Turnpike, Uniondale, NY		el. N/A N/A	
DRILLING AGENCY		**DATE STARTED**	**DATE FINISHED**
Lakewood Environmental Services		7/20/2023	7/20/2023
DRILLING EQUIPMENT		**DRILLER**	
Geoprobe® 6610 DT		Mike Kolasinski	
SIZE AND TYPE OF BIT		**INSPECTOR**	
2-inch Direct Push		Andrew Ashley	
BOREHOLE DIAMETER		**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
2-inch		Overburden	
RISER MATERIAL	**DIAMETER**	**TYPE OF BACKFILL MATERIAL**	
PVC	1-inch	No. 1 Sand	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 10 Slot	1-inch	No. 1 Sand	Bentonite

METHOD OF INSTALLATION

Lakewood Environmental Services used a Geoprobe 6610 DT to advance a boring to about 40 feet below ground surface (bgs). A one-inch (1") PVC temporary monitoring well was installed which consisted of about 10 feet of 10 slot (0.010-inch) well screen. Well screen was installed from about 30 to 40 feet bgs. Clean No. 1 sand was used to backfill the borehole annulus from about 40 to 4 feet bgs and bentonite seal was placed above the sand pack.

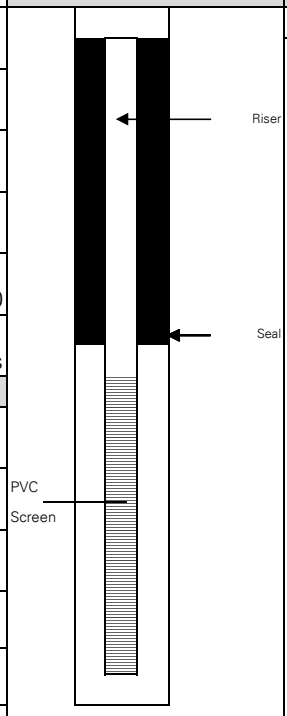
WELL DEVELOPMENT DATA

SURGE BLOCK DIAMETER	N/A	**TYPE PUMP**	Bailer	**DEVELOPMENT CONFIRMATION**
DRILLER OR LANGAN	Langan	**MAX PUMP RATE**		
NUMBER OF SURGE CYCLES	N/A	**TOTAL VOLUME**	1.35	N/A

TOP OF CASING **ELEVATION** N/A	**DEPTH (ft)** 0	
TOP OF SEAL **ELEVATION** N/A	**DEPTH (ft)** 0	
TOP OF FILTER **ELEVATION** N/A	**DEPTH (ft)** 4	
TOP OF SCREEN **ELEVATION** N/A	**DEPTH (ft)** 30.0	
BOTTOM OF BORING **ELEVATION** N/A	**DEPTH (ft)** 40	
SCREEN LENGTH	10	
SLOT SIZE	No. 10 Slot; 0.010 Inches	

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
	7/20/2023	29.6



WELL DETAILS	SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
		0
		4
		30
		40.0

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Appendix E
Phase II Environmental Site Investigation Report
Monitoring Well Construction and Groundwater Sampling Logs

Project Maximus
Uniondale, New York
Langan Project No.: 170754501

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. TMW16

PROJECT		PROJECT NO.	
Project Maximus		170754501	
LOCATION		**ELEVATION AND DATUM**	
1255 Hempstead Turnpike, Uniondale, NY		el. N/A N/A	
DRILLING AGENCY		**DATE STARTED**	**DATE FINISHED**
Lakewood Environmental Services		7/19/2023	7/19/2023
DRILLING EQUIPMENT		**DRILLER**	
Geoprobe® 6610 DT		Mike Kolasinski	
SIZE AND TYPE OF BIT		**INSPECTOR**	
2-inch Direct Push		Andrew Ashley	
BOREHOLE DIAMETER		**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
2-inch		Overburden	
RISER MATERIAL	**DIAMETER**	**TYPE OF BACKFILL MATERIAL**	
PVC	1-inch	No. 1 Sand	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 10 Slot	1-inch	No. 1 Sand	Bentonite

METHOD OF INSTALLATION

Lakewood Environmental Services used a Geoprobe 6610 DT to advance a boring to about 40 feet below ground surface (bgs). A one-inch (1") PVC temporary monitoring well was installed which consisted of about 10 feet of 10 slot (0.010-inch) well screen. Well screen was installed from about 30 to 40 feet bgs. Clean No. 1 sand was used to backfill the borehole annulus from about 40 to 4 feet bgs and bentonite seal was placed above the sand pack.

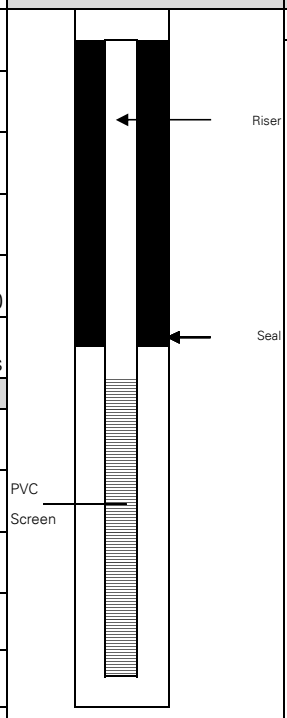
WELL DEVELOPMENT DATA

SURGE BLOCK DIAMETER	N/A	**TYPE PUMP**	Peristaltic	**DEVELOPMENT CONFIRMATION**
DRILLER OR LANGAN	Langan	**MAX PUMP RATE**	0.07 gpm	
NUMBER OF SURGE CYCLES	N/A	**TOTAL VOLUME**	1.85 gal	N/A

TOP OF CASING	**ELEVATION**	**DEPTH (ft)**
	N/A	0
TOP OF SEAL	**ELEVATION**	**DEPTH (ft)**
	N/A	0
TOP OF FILTER	**ELEVATION**	**DEPTH (ft)**
	N/A	4
TOP OF SCREEN	**ELEVATION**	**DEPTH (ft)**
	N/A	30.0
BOTTOM OF BORING	**ELEVATION**	**DEPTH (ft)**
	N/A	40
SCREEN LENGTH		10
SLOT SIZE		No. 10 Slot; 0.010 Inches

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
	7/19/2023	26.4



WELL DETAILS	SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
		0
		4
		30
		40.0

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Appendix E
Phase II Environmental Site Investigation Report
Monitoring Well Construction and Groundwater Sampling Logs

Project Maximus
Uniondale, New York
Langan Project No.: 170754501

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. TMW18

PROJECT		PROJECT NO.	
Project Maximus		170754501	
LOCATION		**ELEVATION AND DATUM**	
1255 Hempstead Turnpike, Uniondale, NY		el. N/A N/A	
DRILLING AGENCY		**DATE STARTED**	**DATE FINISHED**
Lakewood Environmental Services		7/20/2023	7/20/2023
DRILLING EQUIPMENT		**DRILLER**	
Geoprobe® 6610 DT		Mike Kolasinski	
SIZE AND TYPE OF BIT		**INSPECTOR**	
2-inch Direct Push		Andrew Ashley	
BOREHOLE DIAMETER		**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
2-inch		Overburden	
RISER MATERIAL	**DIAMETER**	**TYPE OF BACKFILL MATERIAL**	
PVC	1-inch	No. 1 Sand	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 10 Slot	1-inch	No. 1 Sand	Bentonite

METHOD OF INSTALLATION

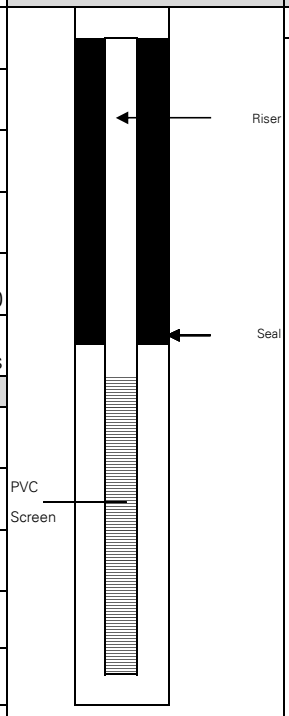
Lakewood Environmental Services used a Geoprobe 6610 DT to advance a boring to about 40 feet below ground surface (bgs). A one-inch (1") PVC temporary monitoring well was installed which consisted of about 10 feet of 10 slot (0.010-inch) well screen. Well screen was installed from about 30 to 40 feet bgs. Clean No. 1 sand was used to backfill the borehole annulus from about 40 to 4 feet bgs and bentonite seal was placed above the sand pack.

WELL DEVELOPMENT DATA

SURGE BLOCK DIAMETER	N/A	**TYPE PUMP**	Peristaltic	**DEVELOPMENT CONFIRMATION**
DRILLER OR LANGAN	Langan	**MAX PUMP RATE**	0.07 gpm	
NUMBER OF SURGE CYCLES	N/A	**TOTAL VOLUME**	1.85 gal	N/A

TOP OF CASING **ELEVATION** N/A	**DEPTH (ft)** 0	
TOP OF SEAL **ELEVATION** N/A	**DEPTH (ft)** 0	
TOP OF FILTER **ELEVATION** N/A	**DEPTH (ft)** 4	
TOP OF SCREEN **ELEVATION** N/A	**DEPTH (ft)** 30.0	
BOTTOM OF BORING **ELEVATION** N/A	**DEPTH (ft)** 40	
SCREEN LENGTH	10	
SLOT SIZE	No. 10 Slot; 0.010 Inches	

WELL DETAILS



SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
	0
	4
	30
	40.0

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
	7/20/2023	30

Appendix E
Phase II Environmental Site Investigation Report
Monitoring Well Construction and Groundwater Sampling Logs

Project Maximus
Uniondale, New York
Langan Project No.: 170754501

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	Project Maximus	**Well No:**	TMW16	**Water Quality Device Model:**	Horiba U52-2	**Weather:**	Sunny, 80s		TMW16_072023
roject Number:	170754501	**Well Depth:**	26.3 ft	**Pine Number:**	801036	**Background PID (ppm):**	0.0	**Sample(s):**	GWDUP02_072023
Site Location:	Uniondale, NY	**Well Diameter:**	1-inch	**Pump Make and Model:**	Peristaltic	**PID Beneath Inner Cap (ppm):**	0.0		
Sampling	Gabriella DeGennaro	**Well Screen**	30	**Pine Number:**	210300	**Pump Intake Depth:**	35.00	**Sample Date:**	7/20/2023
Personnel:		**Interval:**	40	**Tubing Diameter:**	3/16ID x 3/8 OD	**Depth to Water Before Purge:**	26.05	**Sample Time:**	8:55

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
8:25	19.19	6.55	3	2.090	746.0	5.94	26.30		0.5		**N/A**
8:30	18.48	6.65	-12	2.200	746.0	5.87	26.20	0.05	0.75		**N/A**
8:35	18.28	6.63	-10	2.220	687.0	5.82	26.20	0.01	0.8		**N**
8:40	18.45	6.65	-12	2.290	612.0	5.53	26.10	0.07	1.15		**N**
8:45	18.41	6.66	-11	2.300	592.0	5.48	26.10	0.07	1.5		**N**
8:50	18.57	6.64	-10	2.340	580.0	5.47	26.00	0.07	1.85		**Y**
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N

Notes:
1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemens per centimeter
10. NTU = Nephelometric Turbidity Unit

Appendix E
Phase II Environmental Site Investigation Report
Monitoring Well Construction and Groundwater Sampling Logs

Project Maximus
Uniondale, New York
Langan Project No.: 170754501

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	Project Maximus	**Well No:**	TMW18	**Water Quality Device Model:**	Horiba U52-2	**Weather:**	Sunny, 80s		TMW18_072023
roject Number:	170754501	**Well Depth:**	40	**Pine Number:**	801036	**Background PID (ppm):**	0.0	**Sample(s):**	
Site Location:	Uniondale, NY	**Well Diameter:**	1-inch	**Pump Make and Model:**	Peristaltic	**PID Beneath Inner Cap (ppm):**	0.0		
Sampling	Gabriella DeGennaro	**Well Screen**	30	**Pine Number:**	210300	**Pump Intake Depth:**	34.00	**Sample Date:**	7/20/2023
Personnel:		**Interval:**	40	**Tubing Diameter:**	3/16ID x 3/8 OD	**Depth to Water Before Purge:**	28.97	**Sample Time:**	12:00

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
11:15	21.35	6.89	-89	1.010	628.0	1.45	28.97		0.25		**N/A**
11:20	21.47	6.79	-85	0.998	707.0	1.53	28.97	0.04	0.45		**N/A**
11:25	21.15	6.75	-83	1.010	584.0	1.76	28.96	0.06	0.75		**N**
11:30	21.00	6.75	-82	1.010	335.0	1.79	28.96	0.03	0.9		**N**
11:35	21.04	6.75	-82	1.010	296.0	1.89	28.96	0.05	1.15		**N**
11:40	21.07	6.75	-82	1.010	265.0	1.89	28.95	0.05	1.4		**N**
11:45	21.00	6.75	-82	1.010	211.0	1.92	28.95	0.03	1.55		**N**
11:50	20.98	6.76	-82	1.010	205.0	1.95	28.96	0.04	1.75		**N**
11:55	21.06	6.76	-82	1.010	199.0	1.94	28.96	0.05	2		**Y**
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N

Notes:
1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemens per centimeter
10. NTU = Nephelometric Turbidity Unit

APPENDIX F

SOIL VAPOR POINT CONSTRUCTION AND SAMPLING LOGS

Appendix F
Phase II Environmental Site Investigation Report
Soil Vapor Point Construction and Sampling Logs

Project Maximus
Uniondale, New York
Langan Project No.: 170754501

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV11_072023

PROJECT: Project Maximus	**PROJECT NO.:** 170754501	
LOCATION: 1255 Hempstead Turnpike, Uniondale, NY	**SURFACE ELEVATION AND DATUM:** N/A	
DRILLING FIRM OR LANGAN INSTALLER: Lakewood Environmental Services	**INSTALLATION DATE STARTED:** 7/20/2023	**DATE FINISHED:** 7/20/2023
INSTALLATION FOREMAN: Mike Kolasinski	**SAMPLE DATE STARTED:** 7/20/2023	**DATE FINISHED:** 7/20/2023
INSTALLATION EQUIPMENT: Geoprobe 6610 DT	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
INSPECTOR: Andrew Ashley	**SAMPLER:** Andrew Ashley	
POTENTIAL SAMPLE INTERFERENCES: N/A	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 72 - 86 °F; Wind: 6 - 8 mph; Precipitation: None; Pressure: 1 atm	

METHOD OF INSTALLATION AND PURGING:

Lakewood Environmental Services advanced a Geoprobe 6610 DT to 5 feet below grade surface (bgs) and installed a 1-inch polyethylene soil vapor probe. The borehole was backfilled with clean cuttings and No. 2 sand to about 2 inches below grade and sealed to surface with hydrated bentonite. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked every 30 minutes during sampling to ensure proper operation.

TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing	**TYPE OF MATERIAL ABOVE SEAL:** Bentonite
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 1-inch Polyethylene Probe	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite
BOREHOLE DIAMETER: 2-inch	**FILTER PACK MATERIAL (Sand or Glass Beads):** No. 2 Sand

PURGE VOLUME (L):	0.20	
PURGE FLOW RATE (ML/MIN):	200	
PID AFTER PURGE (PPM):	0	
HELIUM TESTS	Pre-sampling	Post-sampling
HELIUM TEST IN BUCKET(%):	19.1	19.5%
HELIUM TEST IN TUBE (PPM):	0	0
SAMPLE START TIME:	13:05	
SAMPLE STOP TIME:	15:05	
TOTAL SAMPLE TIME (MIN):	120	
REGULATOR FLOW RATE (ML/MIN):	40	
VOLUME OF SAMPLE (LITERS):	4.8	
PID AFTER SAMPLE (PPM):	0	
SAMPLE MOISTURE CONTENT:	N/A	
CAN SERIAL NUMBER:	2951	
REGULATOR SERIAL NUMBER:	02134	
CAN START VACUUM PRESS. (" HG):	-30.07	
CAN STOP VACUUM PRESS. (" HG):	-7.19	

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	**DEPTH (INCHES FROM SURFACE)**	**NOTES**
SURFACE / SURFACE		
Top of Seal	0.00	
Top of Pack	0.17	
Probe Depth	5.00	

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

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Appendix F
Phase II Environmental Site Investigation Report
Soil Vapor Point Construction and Sampling Logs

Project Maximus
Uniondale, New York
Langan Project No.: 170754501

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV12_072023

PROJECT: Project Maximus	**PROJECT NO.:** 170754501	
LOCATION: 1255 Hempstead Turnpike, Uniondale, NY	**SURFACE ELEVATION AND DATUM:** N/A	
DRILLING FIRM OR LANGAN INSTALLER: Lakewood Environmental Services	**INSTALLATION DATE STARTED:** 7/20/2023	**DATE FINISHED:** 7/20/2023
INSTALLATION FOREMAN: Mike Kolasinski	**SAMPLE DATE STARTED:** 7/20/2023	**DATE FINISHED:** 7/20/2023
INSTALLATION EQUIPMENT: Geoprobe 6610 DT	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
INSPECTOR: Andrew Ashley	**SAMPLER:** Andrew Ashley	
POTENTIAL SAMPLE INTERFERENCES: N/A	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 72 - 86 °F; Wind: 6 - 8 mph; Precipitation: None; Pressure: 1 atm	

METHOD OF INSTALLATION AND PURGING:

Lakewood Environmental Services advanced a Geoprobe 6610 DT to 5 feet below grade surface (bgs) and installed a 1-inch polyethylene soil vapor probe. The borehole was backfilled with clean cuttings and No. 2 sand to about 2 inches below grade and sealed to surface with hydrated bentonite. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked every 30 minutes during sampling to ensure proper operation.

TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing	**TYPE OF MATERIAL ABOVE SEAL:** Bentonite
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 1-inch Polyethylene Probe	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite
BOREHOLE DIAMETER: 2-inch	**FILTER PACK MATERIAL (Sand or Glass Beads):** No. 2 Sand

PURGE VOLUME (L):	0.20	
PURGE FLOW RATE (ML/MIN):	200	
PID AFTER PURGE (PPM):	0	
HELIUM TESTS	Pre-sampling	Post-sampling
HELIUM TEST IN BUCKET(%):	20.3	18.7%
HELIUM TEST IN TUBE (PPM):	0.0	0.0
SAMPLE START TIME:	13:31	
SAMPLE STOP TIME:	15:31	
TOTAL SAMPLE TIME (MIN):	120	
REGULATOR FLOW RATE (ML/MIN):	40.3	
VOLUME OF SAMPLE (LITERS):	4.84	
PID AFTER SAMPLE (PPM):	0	
SAMPLE MOISTURE CONTENT:	N/A	
CAN SERIAL NUMBER:	3321	
REGULATOR SERIAL NUMBER:	01167	
CAN START VACUUM PRESS. (" HG):	-30.53	
CAN STOP VACUUM PRESS. (" HG):	-6.98	

SAMPLE LOCATION SKETCH

See Sample Location Plan

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (INCHES FROM SURFACE)	NOTES
SURFACE / SURFACE		
Top of Seal	0.00	
Top of Pack	0.17	
Probe Depth	5.00	

NOTES

Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C.
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Appendix F
Phase II Environmental Site Investigation Report
Soil Vapor Point Construction and Sampling Logs

Project Maximus
Uniondale, New York
Langan Project No.: 170754501

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV15_072023

PROJECT: Project Maximus	**PROJECT NO.:** 170754501	
LOCATION: 1255 Hempstead Turnpike, Uniondale, NY	**SURFACE ELEVATION AND DATUM:** N/A	
DRILLING FIRM OR LANGAN INSTALLER: Lakewood Environmental Services	**INSTALLATION DATE STARTED:** 7/19/2023	**DATE FINISHED:** 7/19/2023
INSTALLATION FOREMAN: Mike Kolasinski	**SAMPLE DATE STARTED:** 7/20/2023	**DATE FINISHED:** 7/20/2023
INSTALLATION EQUIPMENT: Geoprobe 6610 DT	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
INSPECTOR: Andrew Ashley	**SAMPLER:** Andrew Ashley	
POTENTIAL SAMPLE INTERFERENCES: N/A	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 72 - 86 °F; Wind: 6 - 8 mph; Precipitation: None; Pressure: 1 atm	

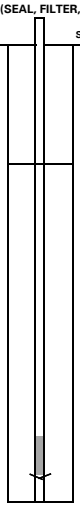
METHOD OF INSTALLATION AND PURGING:

Lakewood Environmental Services advanced a Geoprobe 6610 DT to 5 feet below grade surface (bgs) and installed a 1-inch polyethylene soil vapor probe. The borehole was backfilled with clean cuttings and No. 2 sand to about 2 inches below grade and sealed to surface with hydrated bentonite. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked every 30 minutes during sampling to ensure proper operation.

TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing	**TYPE OF MATERIAL ABOVE SEAL:** Bentonite
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 1-inch Polyethylene Probe	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite
BOREHOLE DIAMETER: 2-inch	**FILTER PACK MATERIAL (Sand or Glass Beads):** No. 2 Sand

PURGE VOLUME (L):	0.20	
PURGE FLOW RATE (ML/MIN):	200	
PID AFTER PURGE (PPM):	0	
HELIUM TESTS	Pre-sampling	Post-sampling
HELIUM TEST IN BUCKET(%):	18.2	19.0%
HELIUM TEST IN TUBE (PPM):	0.0	0.0
SAMPLE START TIME:	13:25	
SAMPLE STOP TIME:	15:25	
TOTAL SAMPLE TIME (MIN):	40.5	
REGULATOR FLOW RATE (ML/MIN):	120	
VOLUME OF SAMPLE (LITERS):	4.86	
PID AFTER SAMPLE (PPM):	0	
SAMPLE MOISTURE CONTENT:	N/A	
CAN SERIAL NUMBER:	1869	
REGULATOR SERIAL NUMBER:	0141	
CAN START VACUUM PRESS. (" HG):	-29.98	
CAN STOP VACUUM PRESS. (" HG):	-7.43	

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)



IMPLANT/PROBE DETAILS	DEPTH (INCHES FROM SURFACE)	NOTES
Top of Seal	0.00	
Top of Pack	0.17	
Probe Depth	5.00	

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Appendix F
Phase II Environmental Site Investigation Report
Soil Vapor Point Construction and Sampling Logs

Project Maximus
Uniondale, New York
Langan Project No.: 170754501

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV17_072023

PROJECT: Project Maximus	**PROJECT NO.:** 170754501	
LOCATION: 1255 Hempstead Turnpike, Uniondale, NY	**SURFACE ELEVATION AND DATUM:** N/A	
DRILLING FIRM OR LANGAN INSTALLER: Lakewood Environmental Services	**INSTALLATION DATE STARTED:** 7/19/2023	**DATE FINISHED:** 7/19/2023
INSTALLATION FOREMAN: Mike Kolasinski	**SAMPLE DATE STARTED:** 7/20/2023	**DATE FINISHED:** 7/20/2023
INSTALLATION EQUIPMENT: Geoprobe 6610 DT	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
INSPECTOR: Andrew Ashley	**SAMPLER:** Andrew Ashley	
POTENTIAL SAMPLE INTERFERENCES: N/A	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 72 - 86 °F; Wind: 6 - 8 mph; Precipitation: None; Pressure: 1 atm	

METHOD OF INSTALLATION AND PURGING:

Lakewood Environmental Services advanced a Geoprobe 6610 DT to 5 feet below grade surface (bgs) and installed a 1-inch polyethylene soil vapor probe. The borehole was backfilled with clean cuttings and No. 2 sand to about 2 inches below grade and sealed to surface with hydrated bentonite. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked every 30 minutes during sampling to ensure proper operation.

TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing	**TYPE OF MATERIAL ABOVE SEAL:** Bentonite
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 1-inch Polyethylene Probe	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite
BOREHOLE DIAMETER: 2-inch	**FILTER PACK MATERIAL (Sand or Glass Beads):** No. 2 Sand

PURGE VOLUME (L):	0.20	
PURGE FLOW RATE (ML/MIN):	200	
PID AFTER PURGE (PPM):	0	
HELIUM TESTS	Pre-sampling	Post-sampling
HELIUM TEST IN BUCKET(%):	21.4	18.3%
HELIUM TEST IN TUBE (PPM):	0.0	0.0
SAMPLE START TIME:	14:39	
SAMPLE STOP TIME:	16:40	
TOTAL SAMPLE TIME (MIN):	121	
REGULATOR FLOW RATE (ML/MIN):	40.4	
VOLUME OF SAMPLE (LITERS):	4.89	
PID AFTER SAMPLE (PPM):	0	
SAMPLE MOISTURE CONTENT:	N/A	
CAN SERIAL NUMBER:	2105	
REGULATOR SERIAL NUMBER:	01442	
CAN START VACUUM PRESS. (" HG):	-30.01	
CAN STOP VACUUM PRESS. (" HG):	-8.82	

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	**DEPTH (INCHES FROM SURFACE)**	**NOTES**
SURFACE / SURFACE		
Top of Seal	0.00	
Top of Pack	0.17	
Probe Depth	5.00	

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Appendix F
Phase II Environmental Site Investigation Report
Soil Vapor Point Construction and Sampling Logs

Project Maximus
Uniondale, New York
Langan Project No.: 170754501

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV18_072023

PROJECT: Project Maximus	**PROJECT NO.:** 170754501	
LOCATION: 1255 Hempstead Turnpike, Uniondale, NY	**SURFACE ELEVATION AND DATUM:** N/A	
DRILLING FIRM OR LANGAN INSTALLER: Lakewood Environmental Services	**INSTALLATION DATE STARTED:** 7/20/2023	**DATE FINISHED:** 7/20/2023
INSTALLATION FOREMAN: Mike Kolasinski	**SAMPLE DATE STARTED:** 7/20/2023	**DATE FINISHED:** 7/20/2023
INSTALLATION EQUIPMENT: Geoprobe 6610 DT	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
INSPECTOR: Andrew Ashley	**SAMPLER:** Andrew Ashley	
POTENTIAL SAMPLE INTERFERENCES: N/A	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 72 - 86 °F; Wind: 6 - 8 mph; Precipitation: None; Pressure: 1 atm	

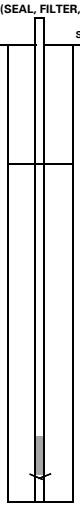
METHOD OF INSTALLATION AND PURGING:

Lakewood Environmental Services advanced a Geoprobe 6610 DT to 5 feet below grade surface (bgs) and installed a 1-inch polyethylene soil vapor probe. The borehole was backfilled with clean cuttings and No. 2 sand to about 2 inches below grade and sealed to surface with hydrated bentonite. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked every 30 minutes during sampling to ensure proper operation.

TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing	**TYPE OF MATERIAL ABOVE SEAL:** Bentonite
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 1-inch Polyethylene Probe	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite
BOREHOLE DIAMETER: 2-inch	**FILTER PACK MATERIAL (Sand or Glass Beads):** No. 2 Sand

PURGE VOLUME (L):	0.20	
PURGE FLOW RATE (ML/MIN):	200	
PID AFTER PURGE (PPM):	6	
HELIUM TESTS	Pre-sampling	Post-sampling
HELIUM TEST IN BUCKET(%):	19.1	15.6%
HELIUM TEST IN TUBE (PPM):	0.0	0.0
SAMPLE START TIME:	13:11	
SAMPLE STOP TIME:	15:11	
TOTAL SAMPLE TIME (MIN):	120	
REGULATOR FLOW RATE (ML/MIN):	40.4	
VOLUME OF SAMPLE (LITERS):	4.85	
PID AFTER SAMPLE (PPM):	4.1	
SAMPLE MOISTURE CONTENT:	N/A	
CAN SERIAL NUMBER:	1850	
REGULATOR SERIAL NUMBER:	01764	
CAN START VACUUM PRESS. (" HG):	-30.06	
CAN STOP VACUUM PRESS. (" HG):	-10.45	

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)



	DEPTH (INCHES FROM SURFACE)	NOTES
Top of Seal	0.00	
Top of Pack	0.17	
Probe Depth	5.00	

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

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Appendix F
Phase II Environmental Site Investigation Report
Soil Vapor Point Construction and Sampling Logs

Project Maximus
Uniondale, New York
Langan Project No.: 170754501

AIR SAMPLING LOG SHEET

Sample Number: AA02_072023

PROJECT: Project Maximus	**PROJECT NO.:** 170754501	
LOCATION: 1255 Hempstead Turnpike, Uniondale, NY	**SURFACE ELEVATION AND DATUM:** N/A	
SAMPLER: Andrew Ashley	**SAMPLE DATE STARTED:** 7/20/2023	**DATE FINISHED:** 7/20/2023
INSPECTOR: Andrew Ashley	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
POTENTIAL SAMPLE INTERFERENCES: N/A	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):**	
	Temp:	72 - 86 °F
	Wind:	6-8 mph
	Precipitation:	None
	Pressure:	1 atm

METHOD OF INSTALLATION AND SAMPLING:
A Langan field engineer screened the sample location with a MultiRAE photoionization detector prior to sampling. Sample consisted of 6L Summa canister fitted with an 2-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked evrey 30 minutes during sampling to ensure proper operation.

SAMPLE DETAILS	
HEIGHT ABOVE GROUND (FT):	5
PID BEFORE SAMPLE (PPM):	0.0
SAMPLE START TIME:	13:28
SAMPLE STOP TIME:	15:12
TOTAL SAMPLE TIME (MIN):	104
REGULATOR FLOW RATE (L/MIN):	40.3
VOLUME OF SAMPLE (LITERS):	4.19
PID AFTER SAMPLE (PPM):	0.0
SAMPLE MOISTURE CONTENT:	N/A
CAN SERIAL NUMBER:	1060
REGULATOR SERIAL NUMBER:	01925
CAN START VACUUM PRESS. (" HG):	-30.15
CAN STOP VACUUM PRESS. (" HG):	-1.02

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C.
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Appendix F
Phase II Environmental Site Investigation Report
Soil Vapor Point Construction and Sampling Logs

Project Maximus
Uniondale, New York
Langan Project No.: 170754501

SOIL VAPOR SAMPLING LOG SUMMARY SHEET

Sample ID	Date	Weather (Atmospheric Pressure, atm = standard atmosphere)	Pre-Purge PID Reading - Sample Tubing (ppm)	Post-Purge Helium Reading Bucket (%)	Post-Purge Helium Reading - Sample Tubing (ppm)	Post-Purge PID Reading - Sample Tubing (ppm)	Summa Canister No.	Regulator No.	Regulator Volume Rate (on tag)	Start Time	Summa Canister Start Pressure	Stop Time	Summa Canister Stop Pressure	Post-Sampling Helium Reading Bucket (%)	Post-Sampling Helium Reading - Sample Tubing (ppm)	Post-Sampling PID Reading - Sample Tubing (ppm)
SV11_072023	7/20/2023	1 atm	0	19.1	0	0	2951	02134	40	13:05	-30.07	15:05	-7.19	19.5	0	0
SV12_072023	7/20/2023	1 atm	0	20.3	0	0	3321	01167	40.3	13:31	-30.53	15:31	-6.98	18.7	0	0
SV15_072023	7/20/2023	1 atm	0	18.2	0	0	1869	0141	40.5	13:25	-29.98	15:25	-7.43	19	0	0
SV17_072023	7/20/2023	1 atm	0	21.4	0	0	2105	01442	40.4	14:39	-30.01	16:40	-8.82	18.3	0	0
SV18_072023	7/20/2023	1 atm	6.5	19.1	0	6	1850	01764	40.4	13:11	-30.06	15:11	-10.45	15.6	0	4.1
AA02_072023	7/20/2023	1 atm	N/A	N/A	N/A	N/A	1060	01925	40.3	13:28	-30.15	15:12	-1.02	N/A	N/A	N/A

APPENDIX G

LABORATORY ANALYTICAL REPORTS

ANALYTICAL REPORT

Lab Number:	L2341450
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Jennifer Armstrong
Phone:	(212) 479-5537
Project Name:	PROJECT MAXIMUS
Project Number:	170754501
Report Date:	07/28/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2341450-01	SB15_0-2	SOIL	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/19/23 10:15	07/19/23
L2341450-02	SB17_2-4	SOIL	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/19/23 11:30	07/19/23
L2341450-03	SB20_30-32	SOIL	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/19/23 14:00	07/19/23
L2341450-04	FB02_071923	WATER	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/19/23 13:15	07/19/23
L2341450-05	SB16_13-15	SOIL	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/19/23 14:45	07/19/23
L2341450-06	TB03_071923	WATER	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/19/23 00:00	07/19/23

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341450
Project Number:	170754501	**Report Date:**	07/28/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450
Project Number: 170754501 **Report Date:** 07/28/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The Herbicide analysis was not performed at the client's request.

At the client's request, the analysis of Total Cyanide was performed.

Total Metals

L2341450-01, -02, -03, and -05: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

L2341450-04: The Field Blank has a result for barium present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

The WG1805526-3/-4 MS/MSD recoveries for aluminum (317%/210%), iron (0%/0%) and manganese (MS 157%), performed on L2341450-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

Hexavalent Chromium

The WG1806039-2 LCS recovery for chromium, hexavalent (79%), associated with L2341450-01, -02, -03, and -05, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 07/28/23

ORGANICS

VOLATILES

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-01 Date Collected: 07/19/23 10:15
Client ID: SB15_0-2 Date Received: 07/19/23
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/25/23 09:30
Analyst: TMH
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-01 Date Collected: 07/19/23 10:15

Client ID: SB15_0-2 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.72	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-01 Date Collected: 07/19/23 10:15

Client ID: SB15_0-2 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	88	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	100		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-02 Date Collected: 07/19/23 11:30
Client ID: SB17_2-4 Date Received: 07/19/23
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/25/23 09:56
Analyst: TMH
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.0	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-02 Date Collected: 07/19/23 11:30

Client ID: SB17_2-4 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.21	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	6.3	J	ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.14	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.20	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.67	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-02 Date Collected: 07/19/23 11:30

Client ID: SB17_2-4 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	82	36.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.20	1
Ethyl ether	ND		ug/kg	2.0	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-03 Date Collected: 07/19/23 14:00
Client ID: SB20_30-32 Date Received: 07/19/23
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/25/23 10:22
Analyst: TMH
Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.5	1.6	1
1,1-Dichloroethane	ND		ug/kg	0.70	0.10	1
Chloroform	ND		ug/kg	1.0	0.10	1
Carbon tetrachloride	ND		ug/kg	0.70	0.16	1
1,2-Dichloropropane	ND		ug/kg	0.70	0.09	1
Dibromochloromethane	ND		ug/kg	0.70	0.10	1
1,1,2-Trichloroethane	ND		ug/kg	0.70	0.19	1
Tetrachloroethene	ND		ug/kg	0.35	0.14	1
Chlorobenzene	ND		ug/kg	0.35	0.09	1
Trichlorofluoromethane	ND		ug/kg	2.8	0.49	1
1,2-Dichloroethane	ND		ug/kg	0.70	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	0.35	0.12	1
Bromodichloromethane	ND		ug/kg	0.35	0.08	1
trans-1,3-Dichloropropene	ND		ug/kg	0.70	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.35	0.11	1
1,3-Dichloropropene, Total	ND		ug/kg	0.35	0.11	1
1,1-Dichloropropene	ND		ug/kg	0.35	0.11	1
Bromoform	ND		ug/kg	2.8	0.17	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.35	0.12	1
Benzene	ND		ug/kg	0.35	0.12	1
Toluene	ND		ug/kg	0.70	0.38	1
Ethylbenzene	ND		ug/kg	0.70	0.10	1
Chloromethane	ND		ug/kg	2.8	0.66	1
Bromomethane	ND		ug/kg	1.4	0.41	1
Vinyl chloride	ND		ug/kg	0.70	0.24	1
Chloroethane	ND		ug/kg	1.4	0.32	1
1,1-Dichloroethene	ND		ug/kg	0.70	0.17	1
trans-1,2-Dichloroethene	ND		ug/kg	1.0	0.10	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-03 Date Collected: 07/19/23 14:00

Client ID: SB20_30-32 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.35	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	1.4	0.10	1
1,3-Dichlorobenzene	ND		ug/kg	1.4	0.10	1
1,4-Dichlorobenzene	ND		ug/kg	1.4	0.12	1
Methyl tert butyl ether	ND		ug/kg	1.4	0.14	1
p/m-Xylene	ND		ug/kg	1.4	0.39	1
o-Xylene	ND		ug/kg	0.70	0.20	1
Xylenes, Total	ND		ug/kg	0.70	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	0.70	0.12	1
1,2-Dichloroethene, Total	ND		ug/kg	0.70	0.10	1
Dibromomethane	ND		ug/kg	1.4	0.17	1
Styrene	ND		ug/kg	0.70	0.14	1
Dichlorodifluoromethane	ND		ug/kg	7.0	0.64	1
Acetone	ND		ug/kg	7.0	3.4	1
Carbon disulfide	ND		ug/kg	7.0	3.2	1
2-Butanone	ND		ug/kg	7.0	1.6	1
Vinyl acetate	ND		ug/kg	7.0	1.5	1
4-Methyl-2-pentanone	ND		ug/kg	7.0	0.90	1
1,2,3-Trichloropropane	ND		ug/kg	1.4	0.09	1
2-Hexanone	ND		ug/kg	7.0	0.83	1
Bromochloromethane	ND		ug/kg	1.4	0.14	1
2,2-Dichloropropane	ND		ug/kg	1.4	0.14	1
1,2-Dibromoethane	ND		ug/kg	0.70	0.20	1
1,3-Dichloropropane	ND		ug/kg	1.4	0.12	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.35	0.09	1
Bromobenzene	ND		ug/kg	1.4	0.10	1
n-Butylbenzene	ND		ug/kg	0.70	0.12	1
sec-Butylbenzene	ND		ug/kg	0.70	0.10	1
tert-Butylbenzene	ND		ug/kg	1.4	0.08	1
o-Chlorotoluene	ND		ug/kg	1.4	0.13	1
p-Chlorotoluene	ND		ug/kg	1.4	0.08	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.1	0.70	1
Hexachlorobutadiene	ND		ug/kg	2.8	0.12	1
Isopropylbenzene	ND		ug/kg	0.70	0.08	1
p-Isopropyltoluene	ND		ug/kg	0.70	0.08	1
Naphthalene	ND		ug/kg	2.8	0.46	1
Acrylonitrile	ND		ug/kg	2.8	0.81	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-03 Date Collected: 07/19/23 14:00

Client ID: SB20_30-32 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.70	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.4	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.4	0.19	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.4	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.4	0.24	1
1,4-Dioxane	ND		ug/kg	56	25.	1
p-Diethylbenzene	ND		ug/kg	1.4	0.12	1
p-Ethyltoluene	ND		ug/kg	1.4	0.27	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.4	0.13	1
Ethyl ether	ND		ug/kg	1.4	0.24	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	3.5	1.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-04 Date Collected: 07/19/23 13:15
Client ID: FB02_071923 Date Received: 07/19/23
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/20/23 08:40
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-04 Date Collected: 07/19/23 13:15

Client ID: FB02_071923 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.3	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-04 Date Collected: 07/19/23 13:15

Client ID: FB02_071923 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	105		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-05 Date Collected: 07/19/23 14:45
Client ID: SB16_13-15 Date Received: 07/19/23
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/25/23 10:48
Analyst: TMH
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.14	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.58	0.23	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.19	1
Bromodichloromethane	ND		ug/kg	0.58	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.19	1
Benzene	ND		ug/kg	0.58	0.19	1
Toluene	ND		ug/kg	1.2	0.63	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.67	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-05 Date Collected: 07/19/23 14:45

Client ID: SB16_13-15 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.0	1
Acetone	ND		ug/kg	12	5.5	1
Carbon disulfide	ND		ug/kg	12	5.2	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.19	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.19	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.12	1
Naphthalene	ND		ug/kg	4.6	0.75	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-05 Date Collected: 07/19/23 14:45

Client ID: SB16_13-15 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	92	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-06 Date Collected: 07/19/23 00:00
Client ID: TB03_071923 Date Received: 07/19/23
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/20/23 09:03
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-06 Date Collected: 07/19/23 00:00

Client ID: TB03_071923 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-06 Date Collected: 07/19/23 00:00

Client ID: TB03_071923 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	105		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/20/23 08:17
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04,06 Batch: WG1806185-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/20/23 08:17
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04,06 Batch: WG1806185-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/20/23 08:17
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04,06 Batch: WG1806185-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	103		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/25/23 09:04
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03,05 Batch: WG1807843-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/25/23 09:04
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03,05 Batch: WG1807843-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/25/23 09:04
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03,05 Batch: WG1807843-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	0.78	J	ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	0.36	J	ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341450

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04,06 Batch: WG1806185-3 WG1806185-4								
Methylene chloride	93		95		70-130	2		20
1,1-Dichloroethane	100		110		70-130	10		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	120		120		63-132	0		20
1,2-Dichloropropane	99		96		70-130	3		20
Dibromochloromethane	97		100		63-130	3		20
1,1,2-Trichloroethane	94		96		70-130	2		20
Tetrachloroethene	100		110		70-130	10		20
Chlorobenzene	92		98		75-130	6		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	110		120		70-130	9		20
1,1,1-Trichloroethane	110		120		67-130	9		20
Bromodichloromethane	110		110		67-130	0		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	96		100		70-130	4		20
1,1-Dichloropropene	100		110		70-130	10		20
Bromoform	88		93		54-136	6		20
1,1,2,2-Tetrachloroethane	93		94		67-130	1		20
Benzene	95		100		70-130	5		20
Toluene	94		98		70-130	4		20
Ethylbenzene	98		100		70-130	2		20
Chloromethane	99		100		64-130	1		20
Bromomethane	89		97		39-139	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341450

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04,06 Batch: WG1806185-3 WG1806185-4								
Vinyl chloride	100		100		55-140	0		20
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	92		97		70-130	5		20
Trichloroethene	88		93		70-130	6		20
1,2-Dichlorobenzene	93		96		70-130	3		20
1,3-Dichlorobenzene	93		99		70-130	6		20
1,4-Dichlorobenzene	92		97		70-130	5		20
Methyl tert butyl ether	95		100		63-130	5		20
p/m-Xylene	100		105		70-130	5		20
o-Xylene	100		105		70-130	5		20
cis-1,2-Dichloroethene	94		98		70-130	4		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	92		96		64-130	4		20
Acrylonitrile	85		95		70-130	11		20
Styrene	100		105		70-130	5		20
Dichlorodifluoromethane	110		120		36-147	9		20
Acetone	73		83		58-148	13		20
Carbon disulfide	95		98		51-130	3		20
2-Butanone	70		71		63-138	1		20
Vinyl acetate	**150**	Q	130		70-130	14		20
4-Methyl-2-pentanone	92		84		59-130	9		20
2-Hexanone	87		91		57-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04,06 Batch: WG1806185-3 WG1806185-4								
Bromochloromethane	98		97		70-130	1		20
2,2-Dichloropropane	120		120		63-133	0		20
1,2-Dibromoethane	94		96		70-130	2		20
1,3-Dichloropropane	96		100		70-130	4		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	93		99		70-130	6		20
n-Butylbenzene	96		100		53-136	4		20
sec-Butylbenzene	96		100		70-130	4		20
tert-Butylbenzene	94		99		70-130	5		20
o-Chlorotoluene	92		97		70-130	5		20
p-Chlorotoluene	94		98		70-130	4		20
1,2-Dibromo-3-chloropropane	89		86		41-144	3		20
Hexachlorobutadiene	110		120		63-130	9		20
Isopropylbenzene	94		100		70-130	6		20
p-Isopropyltoluene	97		100		70-130	3		20
Naphthalene	84		87		70-130	4		20
n-Propylbenzene	94		98		69-130	4		20
1,2,3-Trichlorobenzene	94		99		70-130	5		20
1,2,4-Trichlorobenzene	97		100		70-130	3		20
1,3,5-Trimethylbenzene	97		100		64-130	3		20
1,2,4-Trimethylbenzene	96		100		70-130	4		20
1,4-Dioxane	88		90		56-162	2		20
p-Diethylbenzene	93		98		70-130	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04,06 Batch: WG1806185-3 WG1806185-4								
p-Ethyltoluene	95		100		70-130	5		20
1,2,4,5-Tetramethylbenzene	92		97		70-130	5		20
Ethyl ether	100		92		59-134	8		20
trans-1,4-Dichloro-2-butene	95		98		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	124		121		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	99		102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1807843-3 WG1807843-4								
Methylene chloride	87		87		70-130	0		30
1,1-Dichloroethane	120		119		70-130	1		30
Chloroform	93		93		70-130	0		30
Carbon tetrachloride	100		99		70-130	1		30
1,2-Dichloropropane	112		111		70-130	1		30
Dibromochloromethane	90		92		70-130	2		30
1,1,2-Trichloroethane	88		90		70-130	2		30
Tetrachloroethene	103		103		70-130	0		30
Chlorobenzene	95		96		70-130	1		30
Trichlorofluoromethane	96		93		70-139	3		30
1,2-Dichloroethane	108		110		70-130	2		30
1,1,1-Trichloroethane	106		105		70-130	1		30
Bromodichloromethane	90		91		70-130	1		30
trans-1,3-Dichloropropene	92		94		70-130	2		30
cis-1,3-Dichloropropene	96		96		70-130	0		30
1,1-Dichloropropene	108		107		70-130	1		30
Bromoform	84		86		70-130	2		30
1,1,2,2-Tetrachloroethane	86		87		70-130	1		30
Benzene	97		96		70-130	1		30
Toluene	97		98		70-130	1		30
Ethylbenzene	101		101		70-130	0		30
Chloromethane	**145**	Q	**144**	Q	52-130	1		30
Bromomethane	106		103		57-147	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1807843-3 WG1807843-4								
Vinyl chloride	128		127		67-130	1		30
Chloroethane	114		112		50-151	2		30
1,1-Dichloroethene	104		102		65-135	2		30
trans-1,2-Dichloroethene	102		101		70-130	1		30
Trichloroethene	100		99		70-130	1		30
1,2-Dichlorobenzene	92		93		70-130	1		30
1,3-Dichlorobenzene	95		95		70-130	0		30
1,4-Dichlorobenzene	92		94		70-130	2		30
Methyl tert butyl ether	104		106		66-130	2		30
p/m-Xylene	100		100		70-130	0		30
o-Xylene	97		98		70-130	1		30
cis-1,2-Dichloroethene	98		93		70-130	5		30
Dibromomethane	88		90		70-130	2		30
Styrene	97		98		70-130	1		30
Dichlorodifluoromethane	108		106		30-146	2		30
Acetone	104		93		54-140	11		30
Carbon disulfide	99		98		59-130	1		30
2-Butanone	97		100		70-130	3		30
Vinyl acetate	92		89		70-130	3		30
4-Methyl-2-pentanone	120		121		70-130	1		30
1,2,3-Trichloropropane	86		88		68-130	2		30
2-Hexanone	106		104		70-130	2		30
Bromochloromethane	91		92		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1807843-3 WG1807843-4								
2,2-Dichloropropane	105		103		70-130	2		30
1,2-Dibromoethane	92		94		70-130	2		30
1,3-Dichloropropane	90		92		69-130	2		30
1,1,1,2-Tetrachloroethane	95		95		70-130	0		30
Bromobenzene	92		93		70-130	1		30
n-Butylbenzene	96		96		70-130	0		30
sec-Butylbenzene	99		98		70-130	1		30
tert-Butylbenzene	100		100		70-130	0		30
o-Chlorotoluene	97		96		70-130	1		30
p-Chlorotoluene	94		94		70-130	0		30
1,2-Dibromo-3-chloropropane	89		90		68-130	1		30
Hexachlorobutadiene	95		94		67-130	1		30
Isopropylbenzene	99		99		70-130	0		30
p-Isopropyltoluene	100		100		70-130	0		30
Naphthalene	92		93		70-130	1		30
Acrylonitrile	113		110		70-130	3		30
n-Propylbenzene	101		101		70-130	0		30
1,2,3-Trichlorobenzene	92		93		70-130	1		30
1,2,4-Trichlorobenzene	93		94		70-130	1		30
1,3,5-Trimethylbenzene	96		95		70-130	1		30
1,2,4-Trimethylbenzene	94		94		70-130	0		30
1,4-Dioxane	97		98		65-136	1		30
p-Diethylbenzene	98		98		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1807843-3 WG1807843-4								
p-Ethyltoluene	99		99		70-130	0		30
1,2,4,5-Tetramethylbenzene	97		98		70-130	1		30
Ethyl ether	102		104		67-130	2		30
trans-1,4-Dichloro-2-butene	127		127		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		100		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	105		106		70-130
Dibromofluoromethane	93		93		70-130

SEMIVOLATILES

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-01
Client ID: SB15_0-2
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/19/23 10:15
Date Received: 07/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/24/23 13:07
Analyst: IM
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 07/22/23 04:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	66.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-01 Date Collected: 07/19/23 10:15

Client ID: SB15_0-2 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	ND		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	25.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
2-Methylnaphthalene	ND		ug/kg	230	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	31.	1
2,4-Dimethylphenol	ND		ug/kg	200	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-01 Date Collected: 07/19/23 10:15

Client ID: SB15_0-2 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	117		10-136
4-Terphenyl-d14	87		18-120

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-02
Client ID: SB17_2-4
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/19/23 11:30
Date Received: 07/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/24/23 13:31
Analyst: IM
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 07/22/23 04:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	26	J	ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-02 Date Collected: 07/19/23 11:30

Client ID: SB17_2-4 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	ND		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	24	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-02 Date Collected: 07/19/23 11:30

Client ID: SB17_2-4 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	73		18-120

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-03
Client ID: SB20_30-32
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/19/23 14:00
Date Received: 07/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/24/23 14:18
Analyst: IM
Percent Solids: 98%

Extraction Method: EPA 3546
Extraction Date: 07/22/23 04:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	130	17.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	30.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	29.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	ND		ug/kg	100	19.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	24.	1
Hexachlorocyclopentadiene	ND		ug/kg	480	150	1
Hexachloroethane	ND		ug/kg	130	27.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	20.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	130	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.	1
Butyl benzyl phthalate	ND		ug/kg	170	42.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	57.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-03 Date Collected: 07/19/23 14:00

Client ID: SB20_30-32 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	35.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	130	41.	1
Benzo(b)fluoranthene	ND		ug/kg	100	28.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	17.	1
Acenaphthylene	ND		ug/kg	130	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	130	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	ND		ug/kg	100	20.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	380	22.	1
4-Chloroaniline	ND		ug/kg	170	30.	1
2-Nitroaniline	ND		ug/kg	170	32.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	70.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	55.	1
2-Nitrophenol	ND		ug/kg	360	63.	1
4-Nitrophenol	ND		ug/kg	240	68.	1
2,4-Dinitrophenol	ND		ug/kg	800	78.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	80.	1
Pentachlorophenol	ND		ug/kg	130	37.	1
Phenol	ND		ug/kg	170	25.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-03 Date Collected: 07/19/23 14:00

Client ID: SB20_30-32 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	32.	1
Benzoic Acid	ND		ug/kg	540	170	1
Benzyl Alcohol	ND		ug/kg	170	51.	1
Carbazole	ND		ug/kg	170	16.	1
1,4-Dioxane	ND		ug/kg	25	7.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	76		18-120

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-04
Client ID: FB02_071923
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/19/23 13:15
Date Received: 07/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 07/26/23 00:01
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/24/23 23:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-04 Date Collected: 07/19/23 13:15

Client ID: FB02_071923 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	60		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	99		10-120
4-Terphenyl-d14	70		41-149

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-04
Client ID: FB02_071923
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/19/23 13:15
Date Received: 07/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 07/27/23 12:01
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/26/23 18:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.03	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.05	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.07	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.07	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-04 Date Collected: 07/19/23 13:15

Client ID: FB02_071923 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		21-120
Phenol-d6	64		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	91		15-120
2,4,6-Tribromophenol	116		10-120
4-Terphenyl-d14	94		41-149

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-05
Client ID: SB16_13-15
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/19/23 14:45
Date Received: 07/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/24/23 14:42
Analyst: IM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 07/22/23 04:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-05 Date Collected: 07/19/23 14:45

Client ID: SB16_13-15 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	22.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	830	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-05 Date Collected: 07/19/23 14:45

Client ID: SB16_13-15 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	96		30-120
2,4,6-Tribromophenol	123		10-136
4-Terphenyl-d14	93		18-120

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/24/23 10:46
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 07/22/23 04:11

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05 Batch: WG1806361-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	26	J	ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/24/23 10:46
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 07/22/23 04:11

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05 Batch: WG1806361-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	24	J	ug/kg	99	16.
Biphenyl	ND		ug/kg	380	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/24/23 10:46
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 07/22/23 04:11

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05 Batch: WG1806361-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	97		10-136
4-Terphenyl-d14	82		18-120

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/25/23 21:01
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/24/23 23:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1807149-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/25/23 21:01
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/24/23 23:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1807149-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/25/23 21:01
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/24/23 23:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1807149-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	106		10-120
4-Terphenyl-d14	77		41-149

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 07/27/23 10:37
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/26/23 18:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 04 Batch: WG1808160-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 07/27/23 10:37
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/26/23 18:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 04 Batch: WG1808160-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		21-120
Phenol-d6	60		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	94		15-120
2,4,6-Tribromophenol	115		10-120
4-Terphenyl-d14	97		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341450

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1806361-2 WG1806361-3								
Acenaphthene	62		78		31-137	23		50
1,2,4-Trichlorobenzene	64		78		38-107	20		50
Hexachlorobenzene	69		86		40-140	22		50
Bis(2-chloroethyl)ether	58		72		40-140	22		50
2-Chloronaphthalene	67		81		40-140	19		50
1,2-Dichlorobenzene	61		74		40-140	19		50
1,3-Dichlorobenzene	60		73		40-140	20		50
1,4-Dichlorobenzene	60		74		28-104	21		50
3,3'-Dichlorobenzidine	56		68		40-140	19		50
2,4-Dinitrotoluene	70		88		40-132	23		50
2,6-Dinitrotoluene	69		85		40-140	21		50
Fluoranthene	65		82		40-140	23		50
4-Chlorophenyl phenyl ether	64		82		40-140	25		50
4-Bromophenyl phenyl ether	66		84		40-140	24		50
Bis(2-chloroisopropyl)ether	58		72		40-140	22		50
Bis(2-chloroethoxy)methane	61		74		40-117	19		50
Hexachlorobutadiene	59		74		40-140	23		50
Hexachlorocyclopentadiene	48		59		40-140	21		50
Hexachloroethane	56		68		40-140	19		50
Isophorone	60		72		40-140	18		50
Naphthalene	65		79		40-140	19		50
Nitrobenzene	62		74		40-140	18		50
NDPA/DPA	65		82		36-157	23		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341450

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1806361-2 WG1806361-3								
n-Nitrosodi-n-propylamine	60		71		32-121	17		50
Bis(2-ethylhexyl)phthalate	57		76		40-140	29		50
Butyl benzyl phthalate	63		80		40-140	24		50
Di-n-butylphthalate	60		78		40-140	26		50
Di-n-octylphthalate	57		75		40-140	27		50
Diethyl phthalate	60		78		40-140	26		50
Dimethyl phthalate	68		82		40-140	19		50
Benzo(a)anthracene	62		80		40-140	25		50
Benzo(a)pyrene	72		92		40-140	24		50
Benzo(b)fluoranthene	65		84		40-140	26		50
Benzo(k)fluoranthene	71		89		40-140	23		50
Chrysene	62		79		40-140	24		50
Acenaphthylene	73		88		40-140	19		50
Anthracene	64		82		40-140	25		50
Benzo(ghi)perylene	63		80		40-140	24		50
Fluorene	64		80		40-140	22		50
Phenanthrene	63		79		40-140	23		50
Dibenzo(a,h)anthracene	65		83		40-140	24		50
Indeno(1,2,3-cd)pyrene	63		82		40-140	26		50
Pyrene	66		83		35-142	23		50
Biphenyl	73		88		37-127	19		50
4-Chloroaniline	48		59		40-140	21		50
2-Nitroaniline	74		91		47-134	21		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1806361-2 WG1806361-3								
3-Nitroaniline	58		72		26-129	22		50
4-Nitroaniline	67		84		41-125	23		50
Dibenzofuran	64		82		40-140	25		50
2-Methylnaphthalene	67		82		40-140	20		50
1,2,4,5-Tetrachlorobenzene	70		86		40-117	21		50
Acetophenone	70		85		14-144	19		50
2,4,6-Trichlorophenol	74		91		30-130	21		50
p-Chloro-m-cresol	71		87		26-103	20		50
2-Chlorophenol	65		79		25-102	19		50
2,4-Dichlorophenol	72		87		30-130	19		50
2,4-Dimethylphenol	70		84		30-130	18		50
2-Nitrophenol	70		83		30-130	17		50
4-Nitrophenol	68		86		11-114	23		50
2,4-Dinitrophenol	30		55		4-130	**59**	Q	50
4,6-Dinitro-o-cresol	70		91		10-130	26		50
Pentachlorophenol	67		88		17-109	27		50
Phenol	64		78		26-90	20		50
2-Methylphenol	68		83		30-130.	20		50
3-Methylphenol/4-Methylphenol	70		93		30-130	28		50
2,4,5-Trichlorophenol	73		91		30-130	22		50
Benzoic Acid	11		15		10-110	31		50
Benzyl Alcohol	66		79		40-140	18		50
Carbazole	65		82		54-128	23		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341450

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1806361-2 WG1806361-3								
1,4-Dioxane	54		60		40-140	11		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	69		83		25-120
Phenol-d6	67		80		10-120
Nitrobenzene-d5	62		73		23-120
2-Fluorobiphenyl	69		82		30-120
2,4,6-Tribromophenol	83		101		10-136
4-Terphenyl-d14	64		81		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1807149-2 WG1807149-3								
Acenaphthene	73		80		37-111	9		30
1,2,4-Trichlorobenzene	75		77		39-98	3		30
Hexachlorobenzene	84		89		40-140	6		30
Bis(2-chloroethyl)ether	72		75		40-140	4		30
2-Chloronaphthalene	80		82		40-140	2		30
1,2-Dichlorobenzene	71		73		40-140	3		30
1,3-Dichlorobenzene	68		73		40-140	7		30
1,4-Dichlorobenzene	72		70		36-97	3		30
3,3'-Dichlorobenzidine	80		82		40-140	2		30
2,4-Dinitrotoluene	80		92		48-143	14		30
2,6-Dinitrotoluene	83		82		40-140	1		30
Fluoranthene	78		84		40-140	7		30
4-Chlorophenyl phenyl ether	77		83		40-140	8		30
4-Bromophenyl phenyl ether	82		91		40-140	10		30
Bis(2-chloroisopropyl)ether	64		62		40-140	3		30
Bis(2-chloroethoxy)methane	77		82		40-140	6		30
Hexachlorobutadiene	78		80		40-140	3		30
Hexachlorocyclopentadiene	72		72		40-140	0		30
Hexachloroethane	80		80		40-140	0		30
Isophorone	80		80		40-140	0		30
Naphthalene	73		80		40-140	9		30
Nitrobenzene	82		88		40-140	7		30
NDPA/DPA	74		88		40-140	17		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341450

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1807149-2 WG1807149-3								
n-Nitrosodi-n-propylamine	91		86		29-132	6		30
Bis(2-ethylhexyl)phthalate	102		121		40-140	17		30
Butyl benzyl phthalate	94		105		40-140	11		30
Di-n-butylphthalate	92		101		40-140	9		30
Di-n-octylphthalate	93		116		40-140	22		30
Diethyl phthalate	82		99		40-140	19		30
Dimethyl phthalate	85		90		40-140	6		30
Benzo(a)anthracene	78		89		40-140	13		30
Benzo(a)pyrene	82		92		40-140	11		30
Benzo(b)fluoranthene	79		89		40-140	12		30
Benzo(k)fluoranthene	78		84		40-140	7		30
Chrysene	84		87		40-140	4		30
Acenaphthylene	86		92		45-123	7		30
Anthracene	79		86		40-140	8		30
Benzo(ghi)perylene	79		91		40-140	14		30
Fluorene	74		84		40-140	13		30
Phenanthrene	78		82		40-140	5		30
Dibenzo(a,h)anthracene	77		86		40-140	11		30
Indeno(1,2,3-cd)pyrene	75		84		40-140	11		30
Pyrene	78		85		26-127	9		30
Biphenyl	74		72		40-140	3		30
4-Chloroaniline	80		96		40-140	18		30
2-Nitroaniline	88		90		52-143	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341450

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1807149-2 WG1807149-3								
3-Nitroaniline	83		94		25-145	12		30
4-Nitroaniline	80		94		51-143	16		30
Dibenzofuran	80		90		40-140	12		30
2-Methylnaphthalene	80		77		40-140	4		30
1,2,4,5-Tetrachlorobenzene	71		69		2-134	3		30
Acetophenone	72		74		39-129	3		30
2,4,6-Trichlorophenol	90		90		30-130	0		30
p-Chloro-m-cresol	95		**106**	Q	23-97	11		30
2-Chlorophenol	77		80		27-123	4		30
2,4-Dichlorophenol	94		94		30-130	0		30
2,4-Dimethylphenol	85		88		30-130	3		30
2-Nitrophenol	88		93		30-130	6		30
4-Nitrophenol	**86**	Q	**102**	Q	10-80	17		30
2,4-Dinitrophenol	89		75		20-130	17		30
4,6-Dinitro-o-cresol	99		99		20-164	0		30
Pentachlorophenol	91		101		9-103	10		30
Phenol	57		58		12-110	2		30
2-Methylphenol	78		79		30-130	1		30
3-Methylphenol/4-Methylphenol	90		91		30-130	1		30
2,4,5-Trichlorophenol	88		100		30-130	13		30
Benzoic Acid	92		64		10-164	**36**	Q	30
Benzyl Alcohol	80		84		26-116	5		30
Carbazole	81		89		55-144	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1807149-2 WG1807149-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		73		21-120
Phenol-d6	57		61		10-120
Nitrobenzene-d5	83		76		23-120
2-Fluorobiphenyl	85		78		15-120
2,4,6-Tribromophenol	103		**125**	Q	10-120
4-Terphenyl-d14	74		78		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 04 Batch: WG1808160-2 WG1808160-3								
Acenaphthene	67		84		40-140	23		40
2-Chloronaphthalene	75		95		40-140	24		40
Fluoranthene	73		90		40-140	21		40
Hexachlorobutadiene	75		95		40-140	24		40
Naphthalene	66		84		40-140	24		40
Benzo(a)anthracene	72		93		40-140	25		40
Benzo(a)pyrene	79		94		40-140	17		40
Benzo(b)fluoranthene	74		91		40-140	21		40
Benzo(k)fluoranthene	82		99		40-140	19		40
Chrysene	71		88		40-140	21		40
Acenaphthylene	77		96		40-140	22		40
Anthracene	72		86		40-140	18		40
Benzo(ghi)perylene	70		84		40-140	18		40
Fluorene	72		90		40-140	22		40
Phenanthrene	68		83		40-140	20		40
Dibenzo(a,h)anthracene	70		85		40-140	19		40
Indeno(1,2,3-cd)pyrene	66		78		40-140	17		40
Pyrene	74		88		40-140	17		40
2-Methylnaphthalene	73		93		40-140	24		40
Pentachlorophenol	94		109		40-140	15		40
Hexachlorobenzene	100		118		40-140	17		40
Hexachloroethane	64		81		40-140	23		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341450

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 04 Batch: WG1808160-2 WG1808160-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	59		77		21-120
Phenol-d6	53		70		10-120
Nitrobenzene-d5	74		96		23-120
2-Fluorobiphenyl	74		96		15-120
2,4,6-Tribromophenol	95		119		10-120
4-Terphenyl-d14	70		90		41-149

PCBS

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-01
Client ID: SB15_0-2
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/19/23 10:15
Date Received: 07/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/24/23 09:02
Analyst: MEO
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 07/22/23 02:14
Cleanup Method: EPA 3665A
Cleanup Date: 07/23/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	56.9	5.06	1	A
Aroclor 1221	ND		ug/kg	56.9	5.70	1	A
Aroclor 1232	ND		ug/kg	56.9	12.1	1	A
Aroclor 1242	ND		ug/kg	56.9	7.67	1	A
Aroclor 1248	ND		ug/kg	56.9	8.54	1	A
Aroclor 1254	ND		ug/kg	56.9	6.23	1	A
Aroclor 1260	ND		ug/kg	56.9	10.5	1	A
Aroclor 1262	ND		ug/kg	56.9	7.23	1	A
Aroclor 1268	ND		ug/kg	56.9	5.90	1	A
PCBs, Total	ND		ug/kg	56.9	5.06	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-02
Client ID: SB17_2-4
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/19/23 11:30
Date Received: 07/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/24/23 09:10
Analyst: MEO
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 07/22/23 02:14
Cleanup Method: EPA 3665A
Cleanup Date: 07/23/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	50.0	4.44	1	A
Aroclor 1221	ND		ug/kg	50.0	5.01	1	A
Aroclor 1232	ND		ug/kg	50.0	10.6	1	A
Aroclor 1242	ND		ug/kg	50.0	6.74	1	A
Aroclor 1248	ND		ug/kg	50.0	7.50	1	A
Aroclor 1254	ND		ug/kg	50.0	5.47	1	A
Aroclor 1260	ND		ug/kg	50.0	9.24	1	A
Aroclor 1262	ND		ug/kg	50.0	6.35	1	A
Aroclor 1268	ND		ug/kg	50.0	5.18	1	A
PCBs, Total	ND		ug/kg	50.0	4.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-03
Client ID: SB20_30-32
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/19/23 14:00
Date Received: 07/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/24/23 09:18
Analyst: MEO
Percent Solids: 98%

Extraction Method: EPA 3546
Extraction Date: 07/22/23 02:14
Cleanup Method: EPA 3665A
Cleanup Date: 07/23/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	47.9	4.25	1	A
Aroclor 1221	ND		ug/kg	47.9	4.80	1	A
Aroclor 1232	ND		ug/kg	47.9	10.2	1	A
Aroclor 1242	ND		ug/kg	47.9	6.46	1	A
Aroclor 1248	ND		ug/kg	47.9	7.18	1	A
Aroclor 1254	ND		ug/kg	47.9	5.24	1	A
Aroclor 1260	ND		ug/kg	47.9	8.85	1	A
Aroclor 1262	ND		ug/kg	47.9	6.08	1	A
Aroclor 1268	ND		ug/kg	47.9	4.96	1	A
PCBs, Total	ND		ug/kg	47.9	4.25	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-04
Client ID: FB02_071923
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/19/23 13:15
Date Received: 07/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/25/23 18:49
Analyst: ER

Extraction Method: EPA 3510C
Extraction Date: 07/25/23 05:36
Cleanup Method: EPA 3665A
Cleanup Date: 07/25/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	45		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-05
Client ID: SB16_13-15
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/19/23 14:45
Date Received: 07/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/24/23 09:26
Analyst: MEO
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 07/22/23 02:14
Cleanup Method: EPA 3665A
Cleanup Date: 07/23/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	48.6	4.31	1	A
Aroclor 1221	ND		ug/kg	48.6	4.87	1	A
Aroclor 1232	ND		ug/kg	48.6	10.3	1	A
Aroclor 1242	ND		ug/kg	48.6	6.55	1	A
Aroclor 1248	ND		ug/kg	48.6	7.29	1	A
Aroclor 1254	ND		ug/kg	48.6	5.31	1	A
Aroclor 1260	ND		ug/kg	48.6	8.98	1	A
Aroclor 1262	ND		ug/kg	48.6	6.17	1	A
Aroclor 1268	ND		ug/kg	48.6	5.03	1	A
PCBs, Total	ND		ug/kg	48.6	4.31	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/24/23 08:22
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 07/22/23 02:14
Cleanup Method: EPA 3665A
Cleanup Date: 07/23/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03,05 Batch: WG1806354-1						
Aroclor 1016	ND		ug/kg	49.8	4.43	A
Aroclor 1221	ND		ug/kg	49.8	5.00	A
Aroclor 1232	ND		ug/kg	49.8	10.6	A
Aroclor 1242	ND		ug/kg	49.8	6.72	A
Aroclor 1248	ND		ug/kg	49.8	7.48	A
Aroclor 1254	ND		ug/kg	49.8	5.45	A
Aroclor 1260	ND		ug/kg	49.8	9.21	A
Aroclor 1262	ND		ug/kg	49.8	6.33	A
Aroclor 1268	ND		ug/kg	49.8	5.16	A
PCBs, Total	ND		ug/kg	49.8	4.43	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	90		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/25/23 18:02
Analyst: ER

Extraction Method: EPA 3510C
Extraction Date: 07/25/23 05:36
Cleanup Method: EPA 3665A
Cleanup Date: 07/25/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 04 Batch: WG1807236-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	63		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341450

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1806354-2 WG1806354-3									
Aroclor 1016	86		83		40-140	4		50	A
Aroclor 1260	84		80		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		82		30-150	A
Decachlorobiphenyl	79		83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		86		30-150	B
Decachlorobiphenyl	85		88		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341450

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 04 Batch: WG1807236-2 WG1807236-3									
Aroclor 1016	51		49		40-140	3		50	A
Aroclor 1260	49		46		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		59		30-150	A
Decachlorobiphenyl	64		59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		48		30-150	B
Decachlorobiphenyl	64		60		30-150	B

PESTICIDES

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-01
Client ID: SB15_0-2
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/19/23 10:15
Date Received: 07/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/25/23 09:33
Analyst: AKM
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 07/22/23 03:39
Cleanup Method: EPA 3620B
Cleanup Date: 07/25/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.86	0.364	1	A
Lindane	ND		ug/kg	0.776	0.347	1	A
Alpha-BHC	ND		ug/kg	0.776	0.220	1	A
Beta-BHC	ND		ug/kg	1.86	0.706	1	A
Heptachlor	ND		ug/kg	0.931	0.417	1	A
Aldrin	ND		ug/kg	1.86	0.655	1	A
Heptachlor epoxide	ND		ug/kg	3.49	1.05	1	A
Endrin	ND		ug/kg	0.776	0.318	1	A
Endrin aldehyde	ND		ug/kg	2.33	0.814	1	A
Endrin ketone	ND		ug/kg	1.86	0.479	1	A
Dieldrin	ND		ug/kg	1.16	0.582	1	A
4,4'-DDE	0.809	J	ug/kg	1.86	0.430	1	B
4,4'-DDD	ND		ug/kg	1.86	0.664	1	A
4,4'-DDT	ND		ug/kg	1.86	1.50	1	B
Endosulfan I	ND		ug/kg	1.86	0.440	1	A
Endosulfan II	ND		ug/kg	1.86	0.622	1	A
Endosulfan sulfate	ND		ug/kg	0.776	0.369	1	A
Methoxychlor	ND		ug/kg	3.49	1.08	1	A
Toxaphene	ND		ug/kg	34.9	9.77	1	A
cis-Chlordane	ND		ug/kg	2.33	0.648	1	A
trans-Chlordane	ND		ug/kg	2.33	0.614	1	A
Chlordane	ND		ug/kg	15.5	6.16	1	A

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-01 Date Collected: 07/19/23 10:15

Client ID: SB15_0-2 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	113		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	107		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-02
Client ID: SB17_2-4
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/19/23 11:30
Date Received: 07/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/25/23 09:45
Analyst: AKM
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 07/22/23 03:39
Cleanup Method: EPA 3620B
Cleanup Date: 07/25/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.330	1	A
Lindane	ND		ug/kg	0.702	0.314	1	A
Alpha-BHC	ND		ug/kg	0.702	0.199	1	A
Beta-BHC	ND		ug/kg	1.68	0.639	1	A
Heptachlor	ND		ug/kg	0.842	0.378	1	A
Aldrin	ND		ug/kg	1.68	0.593	1	A
Heptachlor epoxide	ND		ug/kg	3.16	0.948	1	A
Endrin	ND		ug/kg	0.702	0.288	1	A
Endrin aldehyde	ND		ug/kg	2.11	0.737	1	A
Endrin ketone	ND		ug/kg	1.68	0.434	1	A
Dieldrin	ND		ug/kg	1.05	0.526	1	A
4,4'-DDE	1.28	J	ug/kg	1.68	0.390	1	B
4,4'-DDD	ND		ug/kg	1.68	0.601	1	A
4,4'-DDT	1.91	P	ug/kg	1.68	1.35	1	B
Endosulfan I	ND		ug/kg	1.68	0.398	1	A
Endosulfan II	ND		ug/kg	1.68	0.563	1	A
Endosulfan sulfate	ND		ug/kg	0.702	0.334	1	A
Methoxychlor	ND		ug/kg	3.16	0.983	1	A
Toxaphene	ND		ug/kg	31.6	8.84	1	A
cis-Chlordane	ND		ug/kg	2.11	0.587	1	A
trans-Chlordane	ND		ug/kg	2.11	0.556	1	A
Chlordane	ND		ug/kg	14.0	5.58	1	A

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-02 Date Collected: 07/19/23 11:30

Client ID: SB17_2-4 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	112		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	102		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-03
Client ID: SB20_30-32
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/19/23 14:00
Date Received: 07/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/25/23 09:56
Analyst: AKM
Percent Solids: 98%

Extraction Method: EPA 3546
Extraction Date: 07/22/23 03:39
Cleanup Method: EPA 3620B
Cleanup Date: 07/25/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.60	0.312	1	A
Lindane	ND		ug/kg	0.665	0.297	1	A
Alpha-BHC	ND		ug/kg	0.665	0.189	1	A
Beta-BHC	ND		ug/kg	1.60	0.605	1	A
Heptachlor	ND		ug/kg	0.798	0.358	1	A
Aldrin	ND		ug/kg	1.60	0.562	1	A
Heptachlor epoxide	ND		ug/kg	2.99	0.897	1	A
Endrin	ND		ug/kg	0.665	0.272	1	A
Endrin aldehyde	ND		ug/kg	1.99	0.698	1	A
Endrin ketone	ND		ug/kg	1.60	0.411	1	A
Dieldrin	ND		ug/kg	0.997	0.498	1	A
4,4'-DDE	ND		ug/kg	1.60	0.369	1	A
4,4'-DDD	ND		ug/kg	1.60	0.569	1	A
4,4'-DDT	ND		ug/kg	1.60	1.28	1	A
Endosulfan I	ND		ug/kg	1.60	0.377	1	A
Endosulfan II	ND		ug/kg	1.60	0.533	1	A
Endosulfan sulfate	ND		ug/kg	0.665	0.316	1	A
Methoxychlor	ND		ug/kg	2.99	0.930	1	A
Toxaphene	ND		ug/kg	29.9	8.38	1	A
cis-Chlordane	ND		ug/kg	1.99	0.556	1	A
trans-Chlordane	ND		ug/kg	1.99	0.526	1	A
Chlordane	ND		ug/kg	13.3	5.28	1	A

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-03 Date Collected: 07/19/23 14:00

Client ID: SB20_30-32 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	112		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	109		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-04
Client ID: FB02_071923
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/19/23 13:15
Date Received: 07/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 07/25/23 14:17
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 07/24/23 20:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-04 Date Collected: 07/19/23 13:15

Client ID: FB02_071923 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-05
Client ID: SB16_13-15
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/19/23 14:45
Date Received: 07/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/25/23 10:07
Analyst: AKM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 07/22/23 03:39
Cleanup Method: EPA 3620B
Cleanup Date: 07/25/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.62	0.317	1	A
Lindane	ND		ug/kg	0.675	0.302	1	A
Alpha-BHC	ND		ug/kg	0.675	0.192	1	A
Beta-BHC	ND		ug/kg	1.62	0.614	1	A
Heptachlor	ND		ug/kg	0.810	0.363	1	A
Aldrin	ND		ug/kg	1.62	0.570	1	A
Heptachlor epoxide	ND		ug/kg	3.04	0.912	1	A
Endrin	ND		ug/kg	0.675	0.277	1	A
Endrin aldehyde	ND		ug/kg	2.02	0.709	1	A
Endrin ketone	ND		ug/kg	1.62	0.417	1	A
Dieldrin	ND		ug/kg	1.01	0.506	1	A
4,4'-DDE	ND		ug/kg	1.62	0.375	1	A
4,4'-DDD	ND		ug/kg	1.62	0.578	1	A
4,4'-DDT	ND		ug/kg	1.62	1.30	1	A
Endosulfan I	ND		ug/kg	1.62	0.383	1	A
Endosulfan II	ND		ug/kg	1.62	0.542	1	A
Endosulfan sulfate	ND		ug/kg	0.675	0.321	1	A
Methoxychlor	ND		ug/kg	3.04	0.945	1	A
Toxaphene	ND		ug/kg	30.4	8.51	1	A
cis-Chlordane	ND		ug/kg	2.02	0.564	1	A
trans-Chlordane	ND		ug/kg	2.02	0.535	1	A
Chlordane	ND		ug/kg	13.5	5.37	1	A

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-05 Date Collected: 07/19/23 14:45

Client ID: SB16_13-15 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	112		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	107		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/25/23 08:02
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 07/22/23 03:39
Cleanup Method: EPA 3620B
Cleanup Date: 07/25/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03,05 Batch: WG1806357-1						
Delta-BHC	ND		ug/kg	1.52	0.298	A
Lindane	ND		ug/kg	0.634	0.283	A
Alpha-BHC	ND		ug/kg	0.634	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.577	A
Heptachlor	ND		ug/kg	0.761	0.341	A
Aldrin	ND		ug/kg	1.52	0.536	A
Heptachlor epoxide	ND		ug/kg	2.85	0.856	A
Endrin	ND		ug/kg	0.634	0.260	A
Endrin aldehyde	ND		ug/kg	1.90	0.666	A
Endrin ketone	ND		ug/kg	1.52	0.392	A
Dieldrin	ND		ug/kg	0.951	0.476	A
4,4'-DDE	ND		ug/kg	1.52	0.352	A
4,4'-DDD	ND		ug/kg	1.52	0.543	A
4,4'-DDT	ND		ug/kg	1.52	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.360	A
Endosulfan II	ND		ug/kg	1.52	0.508	A
Endosulfan sulfate	ND		ug/kg	0.634	0.302	A
Methoxychlor	ND		ug/kg	2.85	0.888	A
Toxaphene	ND		ug/kg	28.5	7.99	A
cis-Chlordane	ND		ug/kg	1.90	0.530	A
trans-Chlordane	ND		ug/kg	1.90	0.502	A
Chlordane	ND		ug/kg	12.7	5.04	A

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/25/23 08:02
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 07/22/23 03:39
Cleanup Method: EPA 3620B
Cleanup Date: 07/25/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03,05 Batch: WG1806357-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	117		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	110		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/25/23 13:19
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 07/24/23 20:21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 04 Batch: WG1807119-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/25/23 13:19
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 07/24/23 20:21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 04 Batch: WG1807119-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	73		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1806357-2 WG1806357-3									
Delta-BHC	92		85		30-150	8		30	A
Lindane	84		78		30-150	7		30	A
Alpha-BHC	88		83		30-150	6		30	A
Beta-BHC	92		84		30-150	9		30	A
Heptachlor	80		76		30-150	5		30	A
Aldrin	85		80		30-150	6		30	A
Heptachlor epoxide	84		78		30-150	7		30	A
Endrin	87		80		30-150	8		30	A
Endrin aldehyde	70		64		30-150	9		30	A
Endrin ketone	93		87		30-150	7		30	A
Dieldrin	93		86		30-150	8		30	A
4,4'-DDE	88		82		30-150	7		30	A
4,4'-DDD	95		88		30-150	8		30	A
4,4'-DDT	91		84		30-150	8		30	A
Endosulfan I	84		77		30-150	9		30	A
Endosulfan II	91		84		30-150	8		30	A
Endosulfan sulfate	84		78		30-150	7		30	A
Methoxychlor	84		77		30-150	9		30	A
cis-Chlordane	88		83		30-150	6		30	A
trans-Chlordane	96		89		30-150	8		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1806357-2 WG1806357-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		76		30-150	A
Decachlorobiphenyl	101		102		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		77		30-150	B
Decachlorobiphenyl	95		96		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04 Batch: WG1807119-2 WG1807119-3									
Delta-BHC	72		85		30-150	16		20	A
Lindane	71		78		30-150	9		20	A
Alpha-BHC	76		85		30-150	11		20	A
Beta-BHC	78		89		30-150	14		20	A
Heptachlor	72		81		30-150	12		20	A
Aldrin	71		79		30-150	10		20	A
Heptachlor epoxide	70		75		30-150	7		20	A
Endrin	70		78		30-150	11		20	A
Endrin aldehyde	51		63		30-150	**22**	Q	20	A
Endrin ketone	73		79		30-150	9		20	A
Dieldrin	76		86		30-150	13		20	A
4,4'-DDE	70		78		30-150	12		20	A
4,4'-DDD	75		85		30-150	12		20	A
4,4'-DDT	79		92		30-150	15		20	A
Endosulfan I	70		77		30-150	9		20	A
Endosulfan II	72		82		30-150	13		20	A
Endosulfan sulfate	69		81		30-150	17		20	A
Methoxychlor	73		86		30-150	17		20	A
cis-Chlordane	73		80		30-150	10		20	A
trans-Chlordane	78		88		30-150	11		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341450

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04 Batch: WG1807119-2 WG1807119-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		80		30-150	A
Decachlorobiphenyl	81		95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		69		30-150	B
Decachlorobiphenyl	74		84		30-150	B

METALS

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-01 Date Collected: 07/19/23 10:15

Client ID: SB15_0-2 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9710		mg/kg	9.18	2.48	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Antimony, Total	0.652	J	mg/kg	4.59	0.349	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Arsenic, Total	5.70		mg/kg	0.918	0.191	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Barium, Total	32.7		mg/kg	0.918	0.160	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Beryllium, Total	0.239	J	mg/kg	0.459	0.030	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Cadmium, Total	0.144	J	mg/kg	0.918	0.090	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Calcium, Total	882		mg/kg	9.18	3.21	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Chromium, Total	9.88		mg/kg	0.918	0.088	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Cobalt, Total	2.20		mg/kg	1.84	0.152	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Copper, Total	9.37		mg/kg	0.918	0.237	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Iron, Total	13400		mg/kg	4.59	0.829	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Lead, Total	18.8		mg/kg	4.59	0.246	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Magnesium, Total	995		mg/kg	9.18	1.41	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Manganese, Total	283		mg/kg	0.918	0.146	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Mercury, Total	0.125		mg/kg	0.078	0.051	1	07/20/23 23:35	07/26/23 15:50	EPA 7471B	1,7471B	DMB
Nickel, Total	3.69		mg/kg	2.30	0.222	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Potassium, Total	246		mg/kg	230	13.2	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Selenium, Total	ND		mg/kg	1.84	0.237	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Silver, Total	ND		mg/kg	0.459	0.260	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Sodium, Total	264		mg/kg	184	2.89	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Thallium, Total	ND		mg/kg	1.84	0.289	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Vanadium, Total	17.0		mg/kg	0.918	0.186	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
Zinc, Total	18.9		mg/kg	4.59	0.269	2	07/20/23 22:47	07/25/23 20:45	EPA 3050B	1,6010D	CEY
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.68	J	mg/kg	0.959	0.192	1		07/25/23 21:45	NA	107,-	

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-02 Date Collected: 07/19/23 11:30

Client ID: SB17_2-4 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8090		mg/kg	8.46	2.28	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Antimony, Total	0.683	J	mg/kg	4.23	0.322	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Arsenic, Total	3.50		mg/kg	0.846	0.176	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Barium, Total	27.2		mg/kg	0.846	0.147	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Beryllium, Total	0.188	J	mg/kg	0.423	0.028	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Cadmium, Total	0.203	J	mg/kg	0.846	0.083	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Calcium, Total	854		mg/kg	8.46	2.96	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Chromium, Total	8.95		mg/kg	0.846	0.081	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Cobalt, Total	2.70		mg/kg	1.69	0.140	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Copper, Total	7.02		mg/kg	0.846	0.218	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Iron, Total	11200		mg/kg	4.23	0.764	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Lead, Total	22.4		mg/kg	4.23	0.227	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Magnesium, Total	1090		mg/kg	8.46	1.30	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Manganese, Total	114		mg/kg	0.846	0.134	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Mercury, Total	ND		mg/kg	0.075	0.049	1	07/20/23 23:35	07/26/23 16:04	EPA 7471B	1,7471B	DMB
Nickel, Total	4.36		mg/kg	2.12	0.205	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Potassium, Total	346		mg/kg	212	12.2	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Selenium, Total	ND		mg/kg	1.69	0.218	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Silver, Total	ND		mg/kg	0.423	0.239	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Sodium, Total	367		mg/kg	169	2.66	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Thallium, Total	ND		mg/kg	1.69	0.266	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Vanadium, Total	16.2		mg/kg	0.846	0.172	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
Zinc, Total	20.2		mg/kg	4.23	0.248	2	07/20/23 22:47	07/25/23 20:31	EPA 3050B	1,6010D	CEY
General Chemistry - Mansfield Lab											
Chromium, Trivalent	8.95		mg/kg	0.873	0.175	1		07/25/23 21:45	NA	107,-	

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-03 Date Collected: 07/19/23 14:00

Client ID: SB20_30-32 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	771		mg/kg	7.97	2.15	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Antimony, Total	ND		mg/kg	3.98	0.303	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Arsenic, Total	0.520	J	mg/kg	0.797	0.166	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Barium, Total	1.83		mg/kg	0.797	0.139	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Beryllium, Total	0.048	J	mg/kg	0.398	0.026	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Cadmium, Total	ND		mg/kg	0.797	0.078	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Calcium, Total	32.9		mg/kg	7.97	2.79	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Chromium, Total	1.54		mg/kg	0.797	0.077	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Cobalt, Total	0.217	J	mg/kg	1.59	0.132	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Copper, Total	0.745	J	mg/kg	0.797	0.206	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Iron, Total	1330		mg/kg	3.98	0.720	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Lead, Total	0.548	J	mg/kg	3.98	0.214	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Magnesium, Total	87.3		mg/kg	7.97	1.23	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Manganese, Total	13.4		mg/kg	0.797	0.127	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Mercury, Total	ND		mg/kg	0.069	0.045	1	07/20/23 23:35	07/26/23 16:07	EPA 7471B	1,7471B	DMB
Nickel, Total	0.534	J	mg/kg	1.99	0.193	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Potassium, Total	62.1	J	mg/kg	199	11.5	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Selenium, Total	ND		mg/kg	1.59	0.206	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Silver, Total	ND		mg/kg	0.398	0.225	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Sodium, Total	40.9	J	mg/kg	159	2.51	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Thallium, Total	ND		mg/kg	1.59	0.251	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Vanadium, Total	1.52		mg/kg	0.797	0.162	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
Zinc, Total	1.47	J	mg/kg	3.98	0.233	2	07/20/23 22:47	07/25/23 20:36	EPA 3050B	1,6010D	CEY
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1.37	J	mg/kg	0.815	0.163	1		07/25/23 21:45	NA	107,-	

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-04 Date Collected: 07/19/23 13:15

Client ID: FB02_071923 Date Received: 07/19/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Antimony, Total	ND		mg/l	0.00400	0.00042	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Barium, Total	0.00069		mg/l	0.00050	0.00017	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Calcium, Total	ND		mg/l	0.100	0.0394	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Chromium, Total	0.00018	J	mg/l	0.00100	0.00017	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Copper, Total	ND		mg/l	0.00100	0.00038	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Iron, Total	ND		mg/l	0.0500	0.0191	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Manganese, Total	ND		mg/l	0.00100	0.00044	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/21/23 02:41	07/28/23 13:36	EPA 7470A	1,7470A	MJR
Nickel, Total	ND		mg/l	0.00200	0.00055	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Potassium, Total	ND		mg/l	0.100	0.0309	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Sodium, Total	ND		mg/l	0.100	0.0293	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Thallium, Total	ND		mg/l	0.00100	0.00014	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
Zinc, Total	ND		mg/l	0.01000	0.00341	1	07/21/23 00:53	07/26/23 08:04	EPA 3005A	1,6020B	EJF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		07/26/23 08:04	NA	107,-	

Project Name: PROJECT MAXIMUS
Lab Number: L2341450
Project Number: 170754501
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-05
Client ID: SB16_13-15
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/19/23 14:45
Date Received: 07/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1390		mg/kg	8.24	2.22	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Antimony, Total	ND		mg/kg	4.12	0.313	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Arsenic, Total	0.750	J	mg/kg	0.824	0.171	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Barium, Total	5.31		mg/kg	0.824	0.143	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Beryllium, Total	0.086	J	mg/kg	0.412	0.027	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Cadmium, Total	ND		mg/kg	0.824	0.081	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Calcium, Total	234		mg/kg	8.24	2.88	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Chromium, Total	2.55		mg/kg	0.824	0.079	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Cobalt, Total	0.833	J	mg/kg	1.65	0.137	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Copper, Total	2.99		mg/kg	0.824	0.213	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Iron, Total	2740		mg/kg	4.12	0.744	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Lead, Total	1.29	J	mg/kg	4.12	0.221	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Magnesium, Total	373		mg/kg	8.24	1.27	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Manganese, Total	25.3		mg/kg	0.824	0.131	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Mercury, Total	ND		mg/kg	0.078	0.051	1	07/20/23 23:35	07/26/23 16:10	EPA 7471B	1,7471B	DMB
Nickel, Total	2.12		mg/kg	2.06	0.199	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Potassium, Total	189	J	mg/kg	206	11.9	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Selenium, Total	ND		mg/kg	1.65	0.213	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Silver, Total	ND		mg/kg	0.412	0.233	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Sodium, Total	87.2	J	mg/kg	165	2.60	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Thallium, Total	ND		mg/kg	1.65	0.260	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Vanadium, Total	3.41		mg/kg	0.824	0.167	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
Zinc, Total	5.21		mg/kg	4.12	0.242	2	07/20/23 22:47	07/25/23 20:40	EPA 3050B	1,6010D	CEY
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.37	J	mg/kg	0.839	0.168	1		07/25/23 21:45	NA	107,-	

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03,05 Batch: WG1805526-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Antimony, Total	ND		mg/kg	2.00	0.152	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Arsenic, Total	0.095	J	mg/kg	0.400	0.083	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Barium, Total	ND		mg/kg	0.400	0.070	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Beryllium, Total	ND		mg/kg	0.200	0.013	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Cadmium, Total	ND		mg/kg	0.400	0.039	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Calcium, Total	ND		mg/kg	4.00	1.40	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Chromium, Total	ND		mg/kg	0.400	0.038	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Cobalt, Total	ND		mg/kg	0.800	0.066	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Copper, Total	ND		mg/kg	0.400	0.103	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Iron, Total	ND		mg/kg	2.00	0.361	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Lead, Total	ND		mg/kg	2.00	0.107	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Magnesium, Total	ND		mg/kg	4.00	0.616	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Manganese, Total	ND		mg/kg	0.400	0.064	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Nickel, Total	ND		mg/kg	1.00	0.097	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Potassium, Total	ND		mg/kg	100	5.76	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Selenium, Total	ND		mg/kg	0.800	0.103	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Silver, Total	ND		mg/kg	0.200	0.113	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Sodium, Total	2.39	J	mg/kg	80.0	1.26	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Thallium, Total	ND		mg/kg	0.800	0.126	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Vanadium, Total	ND		mg/kg	0.400	0.081	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY
Zinc, Total	ND		mg/kg	2.00	0.117	1	07/20/23 22:47	07/25/23 21:25	1,6010D	CEY

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03,05 Batch: WG1805528-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	07/20/23 23:35	07/26/23 15:37	1,7471B	DMB

Project Name: PROJECT MAXIMUS **Lab Number:** L2341450

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 04 Batch: WG1805552-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Antimony, Total	ND		mg/l	0.00400	0.00042	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Barium, Total	ND		mg/l	0.00050	0.00017	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Calcium, Total	ND		mg/l	0.100	0.0394	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Chromium, Total	ND		mg/l	0.00100	0.00017	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Copper, Total	ND		mg/l	0.00100	0.00038	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Iron, Total	ND		mg/l	0.0500	0.0191	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Manganese, Total	ND		mg/l	0.00100	0.00044	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Nickel, Total	ND		mg/l	0.00200	0.00055	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Potassium, Total	ND		mg/l	0.100	0.0309	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Sodium, Total	ND		mg/l	0.100	0.0293	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP
Zinc, Total	ND		mg/l	0.01000	0.00341	1	07/21/23 00:53	07/23/23 22:57	1,6020B	WKP

Prep Information

Digestion Method: EPA 3005A

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 04 Batch: WG1805553-1										
Mercury, Total	0.00012	J	mg/l	0.00020	0.00009	1	07/21/23 02:41	07/24/23 10:16	1,7470A	MJR

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341450

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03,05 Batch: WG1805526-2 SRM Lot Number: D119-540								
Aluminum, Total	74		-		48-152	-		
Antimony, Total	108		-		10-190	-		
Arsenic, Total	104		-		83-117	-		
Barium, Total	98		-		82-118	-		
Beryllium, Total	102		-		83-117	-		
Cadmium, Total	108		-		82-117	-		
Calcium, Total	101		-		81-118	-		
Chromium, Total	104		-		82-119	-		
Cobalt, Total	107		-		83-117	-		
Copper, Total	106		-		84-116	-		
Iron, Total	91		-		60-140	-		
Lead, Total	105		-		82-118	-		
Magnesium, Total	92		-		76-124	-		
Manganese, Total	99		-		82-118	-		
Nickel, Total	105		-		82-117	-		
Potassium, Total	87		-		70-130	-		
Selenium, Total	107		-		79-121	-		
Silver, Total	103		-		80-120	-		
Sodium, Total	97		-		74-126	-		
Thallium, Total	105		-		81-119	-		
Vanadium, Total	101		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341450

Report Date: 07/28/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03,05 Batch: WG1805526-2 SRM Lot Number: D119-540					
Zinc, Total	102	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-03,05 Batch: WG1805528-2 SRM Lot Number: D119-540					
Mercury, Total	100	-	73-127	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341450

Report Date: 07/28/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 Batch: WG1805552-2					
Aluminum, Total	104	-	80-120	-	
Antimony, Total	101	-	80-120	-	
Arsenic, Total	104	-	80-120	-	
Barium, Total	103	-	80-120	-	
Beryllium, Total	105	-	80-120	-	
Cadmium, Total	107	-	80-120	-	
Calcium, Total	87	-	80-120	-	
Chromium, Total	101	-	80-120	-	
Cobalt, Total	100	-	80-120	-	
Copper, Total	103	-	80-120	-	
Iron, Total	106	-	80-120	-	
Lead, Total	105	-	80-120	-	
Magnesium, Total	103	-	80-120	-	
Manganese, Total	104	-	80-120	-	
Nickel, Total	102	-	80-120	-	
Potassium, Total	104	-	80-120	-	
Selenium, Total	98	-	80-120	-	
Silver, Total	108	-	80-120	-	
Sodium, Total	103	-	80-120	-	
Thallium, Total	102	-	80-120	-	
Vanadium, Total	98	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341450

Report Date: 07/28/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 Batch: WG1805552-2					
Zinc, Total	101	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 04 Batch: WG1805553-2					
Mercury, Total	111	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03,05 QC Batch ID: WG1805526-3 WG1805526-4 QC Sample: L2341450-01 Client ID: SB15_0-2												
Aluminum, Total	9710	186	10300	**317**	Q	10100	**210**	Q	75-125	2		20
Antimony, Total	0.652J	46.5	36.2	78		36.4	78		75-125	1		20
Arsenic, Total	5.70	11.2	17.0	101		17.1	102		75-125	1		20
Barium, Total	32.7	186	208	94		204	92		75-125	2		20
Beryllium, Total	0.239J	4.65	4.65	100		4.57	98		75-125	2		20
Cadmium, Total	0.144J	4.93	5.28	107		5.16	105		75-125	2		20
Calcium, Total	882	929	1660	84		1590	76		75-125	4		20
Chromium, Total	9.88	18.6	27.5	95		26.7	90		75-125	3		20
Cobalt, Total	2.20	46.5	50.3	103		48.9	100		75-125	3		20
Copper, Total	9.37	23.2	33.0	102		33.5	104		75-125	2		20
Iron, Total	13400	92.9	12900	**0**	Q	12500	**0**	Q	75-125	3		20
Lead, Total	18.8	49.3	69.5	103		69.0	102		75-125	1		20
Magnesium, Total	995	929	1880	95		1900	97		75-125	1		20
Manganese, Total	283	46.5	356	**157**	Q	341	125		75-125	4		20
Nickel, Total	3.69	46.5	49.9	99		48.7	97		75-125	2		20
Potassium, Total	246	929	1160	98		1150	97		75-125	1		20
Selenium, Total	ND	11.2	11.3	101		10.8	97		75-125	5		20
Silver, Total	ND	4.65	4.52	97		4.48	96		75-125	1		20
Sodium, Total	264	929	1120	92		1100	90		75-125	2		20
Thallium, Total	ND	11.2	10.9	98		10.7	96		75-125	2		20
Vanadium, Total	17.0	46.5	62.4	98		61.6	96		75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03,05 QC Batch ID: WG1805526-3 WG1805526-4 QC Sample: L2341450-01 Client ID: SB15_0-2									
Zinc, Total	18.9	46.5	66.4	102	65.8	101	75-125	1	20
Total Metals - Mansfield Lab Associated sample(s): 01-03,05 QC Batch ID: WG1805528-3 WG1805528-4 QC Sample: L2341450-01 Client ID: SB15_0-2									
Mercury, Total	0.125	1.73	2.07	112	2.00	109	80-120	3	20

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1805552-3 QC Sample: L2341423-01 Client ID: MS Sample										
Aluminum, Total	16.3	2	18.6	115		-	-	75-125	-	20
Antimony, Total	ND	0.5	0.4947	99		-	-	75-125	-	20
Arsenic, Total	0.00436	0.12	0.1313	106		-	-	75-125	-	20
Barium, Total	0.8590	2	2.980	106		-	-	75-125	-	20
Beryllium, Total	0.00099	0.05	0.05091	100		-	-	75-125	-	20
Cadmium, Total	0.00205	0.053	0.05600	102		-	-	75-125	-	20
Calcium, Total	357.	10	376	**190**	Q	-	-	75-125	-	20
Chromium, Total	0.04010	0.2	0.2417	101		-	-	75-125	-	20
Cobalt, Total	0.05261	0.5	0.5582	101		-	-	75-125	-	20
Copper, Total	0.07645	0.25	0.3337	103		-	-	75-125	-	20
Iron, Total	25.2	1	25.4	**20**	Q	-	-	75-125	-	20
Lead, Total	0.03032	0.53	0.6045	108		-	-	75-125	-	20
Magnesium, Total	108.	10	113	**50**	Q	-	-	75-125	-	20
Manganese, Total	3.830	0.5	3.970	**28**	Q	-	-	75-125	-	20
Nickel, Total	0.04247	0.5	0.5444	100		-	-	75-125	-	20
Potassium, Total	73.4	10	78.5	**51**	Q	-	-	75-125	-	20
Selenium, Total	0.0255	0.12	0.141	96		-	-	75-125	-	20
Silver, Total	0.00026J	0.05	0.05263	105		-	-	75-125	-	20
Sodium, Total	862.	10	868	**60**	Q	-	-	75-125	-	20
Thallium, Total	0.00051J	0.12	0.1240	103		-	-	75-125	-	20
Vanadium, Total	0.03229	0.5	0.5469	103		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1805552-3 QC Sample: L2341423-01 Client ID: MS Sample									
Zinc, Total	0.1089	0.5	0.6017	98	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1805553-3 WG1805553-4 QC Sample: L2341367-03 Client ID: MS Sample									
Mercury, Total	0.00013J	0.005	0.00493	99	0.00490	98	75-125	1	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1805552-4 QC Sample: L2341423-01 Client ID: DUP Sample						
Aluminum, Total	16.3	16.6	mg/l	2		20
Antimony, Total	ND	ND	mg/l	NC		20
Arsenic, Total	0.00436	0.00446	mg/l	2		20
Barium, Total	0.8590	0.8994	mg/l	5		20
Beryllium, Total	0.00099	0.00105	mg/l	5		20
Cadmium, Total	0.00205	0.00206	mg/l	1		20
Calcium, Total	357.	337	mg/l	6		20
Chromium, Total	0.04010	0.03982	mg/l	1		20
Cobalt, Total	0.05261	0.05158	mg/l	2		20
Copper, Total	0.07645	0.07934	mg/l	4		20
Iron, Total	25.2	27.1	mg/l	7		20
Lead, Total	0.03032	0.03244	mg/l	7		20
Magnesium, Total	108.	105	mg/l	3		20
Manganese, Total	3.830	3.677	mg/l	4		20
Nickel, Total	0.04247	0.04358	mg/l	3		20
Potassium, Total	73.4	72.3	mg/l	2		20
Selenium, Total	0.0255	0.0251	mg/l	2		20
Silver, Total	0.00026J	0.00028J	mg/l	NC		20
Thallium, Total	0.00051J	0.00079J	mg/l	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341450

Report Date: 07/28/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1805552-4 QC Sample: L2341423-01 Client ID: DUP Sample					
Vanadium, Total	0.03229	0.03286	mg/l	2	20
Zinc, Total	0.1089	0.1112	mg/l	2	20
Total Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1805552-4 QC Sample: L2341423-01 Client ID: DUP Sample					
Sodium, Total	862.	862	mg/l	0	20

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2341450
Report Date: 07/28/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1805552-6 QC Sample: L2341423-01 Client ID: DUP Sample						
Aluminum, Total	16.3	15.0	mg/l	8		20
Barium, Total	0.8590	0.8360	mg/l	3		20
Calcium, Total	357.	367.	mg/l	3		20
Chromium, Total	0.04010	0.03665	mg/l	9		20
Cobalt, Total	0.05261	0.04936	mg/l	6		20
Copper, Total	0.07645	0.07740	mg/l	1		20
Iron, Total	25.2	24.1	mg/l	4		20
Lead, Total	0.03032	0.02877	mg/l	5		20
Magnesium, Total	108.	94.8	mg/l	12		20
Manganese, Total	3.830	3.290	mg/l	14		20
Potassium, Total	73.4	64.5	mg/l	12		20

INORGANICS
&
MISCELLANEOUS

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-01
Client ID: SB15_0-2
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Sample Depth:
Matrix: Soil
Date Collected: 07/19/23 10:15
Date Received: 07/19/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.4		%	0.100	NA	1	-	07/20/23 08:44	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	07/24/23 05:25	07/24/23 16:08	1,9010C/9012B	JER
Chromium, Hexavalent	0.204	J	mg/kg	0.959	0.192	1	07/25/23 14:10	07/25/23 21:45	1,7196A	WMT

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-02
Client ID: SB17_2-4
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Sample Depth:
Matrix: Soil
Date Collected: 07/19/23 11:30
Date Received: 07/19/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.6		%	0.100	NA	1	-	07/20/23 08:44	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	07/24/23 05:25	07/24/23 16:09	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	0.873	0.175	1	07/25/23 14:10	07/25/23 21:45	1,7196A	WMT

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-03
Client ID: SB20_30-32
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Sample Depth:
Matrix: Soil

Date Collected: 07/19/23 14:00
Date Received: 07/19/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98.2		%	0.100	NA	1	-	07/20/23 12:57	121,2540G	ROI
Cyanide, Total	ND		mg/kg	0.97	0.20	1	07/24/23 05:25	07/24/23 16:10	1,9010C/9012B	JER
Chromium, Hexavalent	0.173	J	mg/kg	0.815	0.163	1	07/25/23 14:10	07/25/23 21:45	1,7196A	WMT

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-04
Client ID: FB02_071923
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Sample Depth:
Matrix: Water
Date Collected: 07/19/23 13:15
Date Received: 07/19/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	07/24/23 05:25	07/24/23 15:46	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	07/20/23 11:00	07/20/23 11:12	1,7196A	KEP

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341450-05
Client ID: SB16_13-15
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/19/23 14:45
Date Received: 07/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.3		%	0.100	NA	1	-	07/20/23 12:57	121,2540G	ROI
Cyanide, Total	ND		mg/kg	0.97	0.20	1	07/24/23 05:25	07/24/23 16:11	1,9010C/9012B	JER
Chromium, Hexavalent	0.178	J	mg/kg	0.839	0.168	1	07/25/23 14:10	07/25/23 21:45	1,7196A	WMT

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341450
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 04 Batch: WG1805565-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	07/20/23 11:00	07/20/23 11:10	1,7196A	KEP
General Chemistry - Westborough Lab for sample(s): 01-03,05 Batch: WG1806039-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	07/25/23 14:10	07/25/23 21:45	1,7196A	WMT
General Chemistry - Westborough Lab for sample(s): 01-03,05 Batch: WG1806733-1										
Cyanide, Total	ND		mg/kg	0.84	0.18	1	07/24/23 05:25	07/24/23 15:51	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 04 Batch: WG1806736-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	07/24/23 05:25	07/24/23 15:31	1,9010C/9012B	JER

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341450

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 04 Batch: WG1805565-2								
Chromium, Hexavalent	94		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1806039-2								
Chromium, Hexavalent	**79**	Q	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1806733-2 WG1806733-3								
Cyanide, Total	99		108		80-120	0		35
General Chemistry - Westborough Lab Associated sample(s): 04 Batch: WG1806736-2 WG1806736-3								
Cyanide, Total	96		100		85-115	4		20

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1805565-4 QC Sample: L2341450-04 Client ID: FB02_071923												
Chromium, Hexavalent	ND	0.1	0.095	95		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,05 QC Batch ID: WG1806039-4 QC Sample: L2341450-05 Client ID: SB16_13-15												
Chromium, Hexavalent	0.178J	1190	1160	97		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,05 QC Batch ID: WG1806733-4 WG1806733-5 QC Sample: L2339965-06 Client ID: MS Sample												
Cyanide, Total	ND	11	7.9	**74**	Q	11	100		75-125	33		35
General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1806736-4 WG1806736-5 QC Sample: L2339885-04 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.218	109		0.220	110		80-120	1		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1805403-1 QC Sample: L2341171-01 Client ID: DUP Sample						
Solids, Total	83.7	85.6	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 03,05 QC Batch ID: WG1805494-1 QC Sample: L2341497-01 Client ID: DUP Sample						
Solids, Total	92.3	92.9	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1805565-3 QC Sample: L2341450-04 Client ID: FB02_071923						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,05 QC Batch ID: WG1806039-6 QC Sample: L2341450-05 Client ID: SB16_13-15						
Chromium, Hexavalent	0.178J	0.178J	mg/kg	NC		20

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2341450-01A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2341450-01B	Vial water preserved	A	NA		2.7	Y	Absent	20-JUL-23 05:44	NYTCL-8260HLW(14)
L2341450-01C	Vial water preserved	A	NA		2.7	Y	Absent	20-JUL-23 05:44	NYTCL-8260HLW(14)
L2341450-01D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),K-TI(180),CA-TI(180),NA-TI(180),CD-TI(180)
L2341450-01E	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2341450-01F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2341450-01G	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2341450-02A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2341450-02B	Vial water preserved	A	NA		2.7	Y	Absent	20-JUL-23 05:44	NYTCL-8260HLW(14)
L2341450-02C	Vial water preserved	A	NA		2.7	Y	Absent	20-JUL-23 05:44	NYTCL-8260HLW(14)
L2341450-02D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),MG-TI(180),FE-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2341450-02E	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2341450-02F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2341450-02G	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2341450-03A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2341450-03B	Vial water preserved	A	NA		2.7	Y	Absent	20-JUL-23 05:44	NYTCL-8260HLW(14)
L2341450-03C	Vial water preserved	A	NA		2.7	Y	Absent	20-JUL-23 05:44	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2341450-03D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),CD-TI(180),CA-TI(180),NA-TI(180),K-TI(180)
L2341450-03E	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2341450-03F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2341450-03G	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2341450-04A	Vial HCl preserved	A	NA		2.7	Y	Absent		NYTCL-8260(14)
L2341450-04B	Vial HCl preserved	A	NA		2.7	Y	Absent		NYTCL-8260(14)
L2341450-04C	Vial HCl preserved	A	NA		2.7	Y	Absent		NYTCL-8260(14)
L2341450-04D	Amber 120ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8081(7)
L2341450-04E	Amber 120ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8081(7)
L2341450-04F	Amber 120ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8082-LVI(365)
L2341450-04G	Amber 120ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8082-LVI(365)
L2341450-04H	Plastic 250ml NaOH preserved	A	>12	>12	2.7	Y	Absent		TCN-9010(14)
L2341450-04J	Amber 250ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2341450-04K	Amber 250ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2341450-04L	Plastic 250ml HNO3 preserved	A	<2	<2	2.7	Y	Absent		FE-6020T(180),SE-6020T(180),TL-6020T(180),BA-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),CD-6020T(180),HG-T(28),AG-6020T(180),AL-6020T(180),MG-6020T(180),CO-6020T(180)
L2341450-04M	Plastic 500ml unpreserved	A	7	7	2.7	Y	Absent		HEXCR-7196(1)
L2341450-05A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2341450-05B	Vial water preserved	A	NA		2.7	Y	Absent	20-JUL-23 05:44	NYTCL-8260HLW(14)
L2341450-05C	Vial water preserved	A	NA		2.7	Y	Absent	20-JUL-23 05:44	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341450
Report Date: 07/28/23

Container Information

Container ID	*Container Type*	*Cooler*	*Initial pH*	*Final pH*	*Temp deg C*	*Pres*	*Seal*	*Frozen Date/Time*	*Analysis(*)*
L2341450-05D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2341450-05E	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2341450-05F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2341450-05G	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2341450-06A	Vial HCl preserved	A	NA		2.7	Y	Absent		NYTCL-8260(14)
L2341450-06B	Vial HCl preserved	A	NA		2.7	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341450
Project Number:	170754501	**Report Date:**	07/28/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341450
Project Number:	170754501	**Report Date:**	07/28/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341450
Project Number:	170754501	**Report Date:**	07/28/23

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341450
Project Number:	170754501	**Report Date:**	07/28/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 7/20/23

ALPHA Job #: L2341450

Client Information

Client: Langan
Address: 360 W 31st Street, 8th Floor
New York, NY 10001
Phone: (212) 479-5400
Fax:
Email: jarmstrong@langan.com

Project Information

Project Name: Project Maximus
Project Location: 1255 Hempstead Tpke, Uniondale, NY
Project #: 170754501
(Use Project name as Project #) ☐
Project Manager: Jennifer Armstrong
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☑ Same as Client Info
PO # 170754501

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please CC kgioia@langan.com and datamanagement@langan.com

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 375/TCL VOCs	SVOCs	pesticides/herbicides	TAL/Part 375 metals	(incl. hex and tri chrom)	PCBs			Sample Specific Comments	Total Bottle
41450-01	SB15-0-2	7/19/23	10:15	S	GD	X	X	X	X	X	X				
02	SB17-2-4	"	11:30	S	GD	"	"	"	"	"	"				
03	SB20-30-32	"	14:00	S	GD	"	"	"	"	"	"				
04	FB02-071923	"	13:15	~~S~~ GW Aq	GD	"	"	"	"	"	"				
05	SB16-13-15	"	14:45	S	GD	"	"	"	"	"	"				
06	TB03-071923	"	"	~~S~~ GW Aq	GD	X									
				S											
				S											
				S											

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
GDeGennaro/Langan	7/19/23 @ 1513	MSMA(ANL)	7/19 1514
MSMA(ANL)	7/19 1948	MSMA(ANL)	7/19 2100
MSMA(ANL)	7/20 0020		7/20 0020
	7/20/23 0220		7/20/23 0220

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2341893
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Jennifer Armstrong
Phone:	(212) 479-5537
Project Name:	PROJECT MAXIMUS
Project Number:	170754501
Report Date:	07/28/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341893
Report Date: 07/28/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2341893-01	SB18_22-24	SOIL	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/20/23 10:30	07/20/23
L2341893-02	SODUP03_072023	SOIL	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/20/23 00:00	07/20/23
L2341893-03	SB11_22-24	SOIL	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/20/23 12:15	07/20/23
L2341893-04	SB14_18-20	SOIL	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/20/23 16:00	07/20/23
L2341893-05	SB12_12-14	SOIL	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/20/23 15:40	07/20/23

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341893
Project Number:	170754501	**Report Date:**	07/28/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341893
Project Number:	170754501	**Report Date:**	07/28/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

At the client's request, the analysis of Herbicides was not performed.

The analysis of Total Cyanide and the Trivalent Chromium Calculation were performed at the client's request.

Semivolatile Organics

The WG1806569-3 LCSD recovery, associated with L2341893-01 through -05, is below the acceptance criteria for benzoic acid (7%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Total Metals

L2341893-01 though -05: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

The WG1806116-3 MS recoveries for aluminum (0%) and iron (1370%), performed on L2341893-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1806116-4 Laboratory Duplicate RPD for iron (24%), performed on L2341893-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

Hexavalent Chromium

The WG1806039-2 LCS recovery for chromium, hexavalent (79%), associated with L2341893-01 through -05, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 07/28/23

ORGANICS

VOLATILES

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-01 Date Collected: 07/20/23 10:30

Client ID: SB18_22-24 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 07/26/23 12:11

Analyst: AJK

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.95	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.95	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.95	0.12	1
Dibromochloromethane	ND		ug/kg	0.95	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.95	0.25	1
Tetrachloroethene	ND		ug/kg	0.47	0.18	1
Chlorobenzene	ND		ug/kg	0.47	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.66	1
1,2-Dichloroethane	ND		ug/kg	0.95	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.47	0.16	1
Bromodichloromethane	ND		ug/kg	0.47	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.95	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.47	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.47	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.47	0.15	1
Bromoform	ND		ug/kg	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.47	0.16	1
Benzene	ND		ug/kg	0.47	0.16	1
Toluene	ND		ug/kg	0.95	0.51	1
Ethylbenzene	ND		ug/kg	0.95	0.13	1
Chloromethane	ND		ug/kg	3.8	0.88	1
Bromomethane	ND		ug/kg	1.9	0.55	1
Vinyl chloride	ND		ug/kg	0.95	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.95	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-01 Date Collected: 07/20/23 10:30

Client ID: SB18_22-24 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.53	1
o-Xylene	ND		ug/kg	0.95	0.28	1
Xylenes, Total	ND		ug/kg	0.95	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.95	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.95	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.22	1
Styrene	ND		ug/kg	0.95	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.5	0.87	1
Acetone	ND		ug/kg	9.5	4.6	1
Carbon disulfide	ND		ug/kg	9.5	4.3	1
2-Butanone	ND		ug/kg	9.5	2.1	1
Vinyl acetate	ND		ug/kg	9.5	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.5	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.5	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.95	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.47	0.12	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.95	0.16	1
sec-Butylbenzene	ND		ug/kg	0.95	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.94	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.16	1
Isopropylbenzene	ND		ug/kg	0.95	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.95	0.10	1
Naphthalene	ND		ug/kg	3.8	0.62	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-01 Date Collected: 07/20/23 10:30

Client ID: SB18_22-24 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.95	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	76	33.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.7	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-02 Date Collected: 07/20/23 00:00

Client ID: SODUP03_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 07/26/23 12:37

Analyst: AJK

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.28	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.53	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.2	0.99	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-02 Date Collected: 07/20/23 00:00

Client ID: SODUP03_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.53	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.97	1
Acetone	ND		ug/kg	11	5.1	1
Carbon disulfide	ND		ug/kg	11	4.8	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.14	1
2-Hexanone	ND		ug/kg	11	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.53	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.2	0.69	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-02 Date Collected: 07/20/23 00:00

Client ID: SODUP03_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.36	1
1,4-Dioxane	ND		ug/kg	85	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.19	1
p-Ethyltoluene	ND		ug/kg	2.1	0.41	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.3	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-03 Date Collected: 07/20/23 12:15
Client ID: SB11_22-24 Date Received: 07/20/23
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/26/23 13:03
Analyst: AJK
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.88	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.88	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.88	0.11	1
Dibromochloromethane	ND		ug/kg	0.88	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.88	0.23	1
Tetrachloroethene	ND		ug/kg	0.44	0.17	1
Chlorobenzene	ND		ug/kg	0.44	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.5	0.61	1
1,2-Dichloroethane	ND		ug/kg	0.88	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	0.15	1
Bromodichloromethane	ND		ug/kg	0.44	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.88	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.44	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.44	0.14	1
Bromoform	ND		ug/kg	3.5	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	0.14	1
Benzene	ND		ug/kg	0.44	0.14	1
Toluene	ND		ug/kg	0.88	0.48	1
Ethylbenzene	ND		ug/kg	0.88	0.12	1
Chloromethane	ND		ug/kg	3.5	0.82	1
Bromomethane	ND		ug/kg	1.8	0.51	1
Vinyl chloride	ND		ug/kg	0.88	0.29	1
Chloroethane	ND		ug/kg	1.8	0.40	1
1,1-Dichloroethene	ND		ug/kg	0.88	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-03 Date Collected: 07/20/23 12:15

Client ID: SB11_22-24 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.44	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.49	1
o-Xylene	ND		ug/kg	0.88	0.25	1
Xylenes, Total	ND		ug/kg	0.88	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	0.88	0.15	1
1,2-Dichloroethene, Total	ND		ug/kg	0.88	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.21	1
Styrene	ND		ug/kg	0.88	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.8	0.80	1
Acetone	ND		ug/kg	8.8	4.2	1
Carbon disulfide	ND		ug/kg	8.8	4.0	1
2-Butanone	ND		ug/kg	8.8	1.9	1
Vinyl acetate	ND		ug/kg	8.8	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.8	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.11	1
2-Hexanone	ND		ug/kg	8.8	1.0	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.88	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.44	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.88	0.15	1
sec-Butylbenzene	ND		ug/kg	0.88	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.10	1
o-Chlorotoluene	ND		ug/kg	1.8	0.17	1
p-Chlorotoluene	ND		ug/kg	1.8	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.87	1
Hexachlorobutadiene	ND		ug/kg	3.5	0.15	1
Isopropylbenzene	ND		ug/kg	0.88	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.88	0.10	1
Naphthalene	ND		ug/kg	3.5	0.57	1
Acrylonitrile	ND		ug/kg	3.5	1.0	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-03 Date Collected: 07/20/23 12:15

Client ID: SB11_22-24 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.88	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.29	1
1,4-Dioxane	ND		ug/kg	70	31.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.15	1
p-Ethyltoluene	ND		ug/kg	1.8	0.34	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.17	1
Ethyl ether	ND		ug/kg	1.8	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.4	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-04 Date Collected: 07/20/23 16:00

Client ID: SB14_18-20 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 07/26/23 13:29

Analyst: AJK

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.92	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.92	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.92	0.12	1
Dibromochloromethane	ND		ug/kg	0.92	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.92	0.25	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.92	0.50	1
Ethylbenzene	ND		ug/kg	0.92	0.13	1
Chloromethane	ND		ug/kg	3.7	0.86	1
Bromomethane	ND		ug/kg	1.8	0.54	1
Vinyl chloride	ND		ug/kg	0.92	0.31	1
Chloroethane	ND		ug/kg	1.8	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-04 Date Collected: 07/20/23 16:00

Client ID: SB14_18-20 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.46	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.52	1
o-Xylene	ND		ug/kg	0.92	0.27	1
Xylenes, Total	ND		ug/kg	0.92	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.92	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.92	0.13	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.92	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.84	1
Acetone	ND		ug/kg	9.2	4.4	1
Carbon disulfide	ND		ug/kg	9.2	4.2	1
2-Butanone	ND		ug/kg	9.2	2.0	1
Vinyl acetate	ND		ug/kg	9.2	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.2	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.92	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.92	0.15	1
sec-Butylbenzene	ND		ug/kg	0.92	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.18	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.92	1
Hexachlorobutadiene	ND		ug/kg	3.7	0.16	1
Isopropylbenzene	ND		ug/kg	0.92	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.10	1
Naphthalene	ND		ug/kg	3.7	0.60	1
Acrylonitrile	ND		ug/kg	3.7	1.1	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-04 Date Collected: 07/20/23 16:00

Client ID: SB14_18-20 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.92	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.31	1
1,4-Dioxane	ND		ug/kg	74	32.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.35	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.18	1
Ethyl ether	ND		ug/kg	1.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	98		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-05 Date Collected: 07/20/23 15:40

Client ID: SB12_12-14 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 07/27/23 05:39

Analyst: AJK

Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	ND		ug/kg	1.4	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.15	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.97	0.53	1
Ethylbenzene	ND		ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.97	0.33	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-05 Date Collected: 07/20/23 15:40

Client ID: SB12_12-14 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.20	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.97	0.28	1
Xylenes, Total	ND		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.89	1
Acetone	ND		ug/kg	9.7	4.7	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	ND		ug/kg	9.7	2.2	1
Vinyl acetate	ND		ug/kg	9.7	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.7	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.97	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.11	1
Naphthalene	ND		ug/kg	3.9	0.63	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-05 Date Collected: 07/20/23 15:40

Client ID: SB12_12-14 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.97	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	78	34.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/26/23 09:10
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1808210-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/26/23 09:10
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1808210-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/26/23 09:10
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1808210-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	0.36	J	ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	99		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/26/23 21:42
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05 Batch: WG1808425-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/26/23 21:42
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05 Batch: WG1808425-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/26/23 21:42
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05 Batch: WG1808425-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341893
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1808210-3 WG1808210-4								
Methylene chloride	83		86		70-130	4		30
1,1-Dichloroethane	113		118		70-130	4		30
Chloroform	91		93		70-130	2		30
Carbon tetrachloride	94		99		70-130	5		30
1,2-Dichloropropane	107		110		70-130	3		30
Dibromochloromethane	88		90		70-130	2		30
1,1,2-Trichloroethane	84		86		70-130	2		30
Tetrachloroethene	98		101		70-130	3		30
Chlorobenzene	91		94		70-130	3		30
Trichlorofluoromethane	90		95		70-139	5		30
1,2-Dichloroethane	104		108		70-130	4		30
1,1,1-Trichloroethane	100		104		70-130	4		30
Bromodichloromethane	88		91		70-130	3		30
trans-1,3-Dichloropropene	89		91		70-130	2		30
cis-1,3-Dichloropropene	91		94		70-130	3		30
1,1-Dichloropropene	101		105		70-130	4		30
Bromoform	81		84		70-130	4		30
1,1,2,2-Tetrachloroethane	73		82		70-130	12		30
Benzene	91		95		70-130	4		30
Toluene	92		95		70-130	3		30
Ethylbenzene	96		99		70-130	3		30
Chloromethane	**134**	Q	**140**	Q	52-130	4		30
Bromomethane	99		105		57-147	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341893
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1808210-3 WG1808210-4								
Vinyl chloride	118		124		67-130	5		30
Chloroethane	108		114		50-151	5		30
1,1-Dichloroethene	97		102		65-135	5		30
trans-1,2-Dichloroethene	96		99		70-130	3		30
Trichloroethene	101		99		70-130	2		30
1,2-Dichlorobenzene	89		92		70-130	3		30
1,3-Dichlorobenzene	92		95		70-130	3		30
1,4-Dichlorobenzene	89		90		70-130	1		30
Methyl tert butyl ether	100		102		66-130	2		30
p/m-Xylene	95		97		70-130	2		30
o-Xylene	94		96		70-130	2		30
cis-1,2-Dichloroethene	89		96		70-130	8		30
Dibromomethane	83		86		70-130	4		30
Styrene	93		97		70-130	4		30
Dichlorodifluoromethane	100		106		30-146	6		30
Acetone	95		92		54-140	3		30
Carbon disulfide	92		98		59-130	6		30
2-Butanone	86		91		70-130	6		30
Vinyl acetate	**42**	Q	85		70-130	**68**	Q	30
4-Methyl-2-pentanone	108		111		70-130	3		30
1,2,3-Trichloropropane	80		83		68-130	4		30
2-Hexanone	96		99		70-130	3		30
Bromochloromethane	88		90		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341893

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1808210-3 WG1808210-4								
2,2-Dichloropropane	98		102		70-130	4		30
1,2-Dibromoethane	88		91		70-130	3		30
1,3-Dichloropropane	86		88		69-130	2		30
1,1,1,2-Tetrachloroethane	92		94		70-130	2		30
Bromobenzene	89		92		70-130	3		30
n-Butylbenzene	92		94		70-130	2		30
sec-Butylbenzene	94		97		70-130	3		30
tert-Butylbenzene	95		99		70-130	4		30
o-Chlorotoluene	92		95		70-130	3		30
p-Chlorotoluene	91		93		70-130	2		30
1,2-Dibromo-3-chloropropane	81		84		68-130	4		30
Hexachlorobutadiene	90		93		67-130	3		30
Isopropylbenzene	94		98		70-130	4		30
p-Isopropyltoluene	96		99		70-130	3		30
Naphthalene	84		88		70-130	5		30
Acrylonitrile	96		102		70-130	6		30
n-Propylbenzene	96		99		70-130	3		30
1,2,3-Trichlorobenzene	87		90		70-130	3		30
1,2,4-Trichlorobenzene	89		92		70-130	3		30
1,3,5-Trimethylbenzene	91		94		70-130	3		30
1,2,4-Trimethylbenzene	91		94		70-130	3		30
1,4-Dioxane	88		93		65-136	6		30
p-Diethylbenzene	93		97		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341893

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1808210-3 WG1808210-4								
p-Ethyltoluene	93		97		70-130	4		30
1,2,4,5-Tetramethylbenzene	94		97		70-130	3		30
Ethyl ether	97		102		67-130	5		30
trans-1,4-Dichloro-2-butene	118		122		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		98		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	105		105		70-130
Dibromofluoromethane	92		93		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341893

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05 Batch: WG1808425-3 WG1808425-4								
Methylene chloride	90		94		70-130	4		30
1,1-Dichloroethane	92		95		70-130	3		30
Chloroform	89		93		70-130	4		30
Carbon tetrachloride	81		84		70-130	4		30
1,2-Dichloropropane	96		99		70-130	3		30
Dibromochloromethane	95		97		70-130	2		30
1,1,2-Trichloroethane	101		102		70-130	1		30
Tetrachloroethene	93		94		70-130	1		30
Chlorobenzene	94		96		70-130	2		30
Trichlorofluoromethane	86		89		70-139	3		30
1,2-Dichloroethane	95		97		70-130	2		30
1,1,1-Trichloroethane	88		92		70-130	4		30
Bromodichloromethane	92		96		70-130	4		30
trans-1,3-Dichloropropene	99		101		70-130	2		30
cis-1,3-Dichloropropene	97		100		70-130	3		30
1,1-Dichloropropene	92		96		70-130	4		30
Bromoform	90		91		70-130	1		30
1,1,2,2-Tetrachloroethane	100		99		70-130	1		30
Benzene	93		96		70-130	3		30
Toluene	91		93		70-130	2		30
Ethylbenzene	93		95		70-130	2		30
Chloromethane	92		95		52-130	3		30
Bromomethane	113		115		57-147	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341893

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05 Batch: WG1808425-3 WG1808425-4								
Vinyl chloride	90		94		67-130	4		30
Chloroethane	93		96		50-151	3		30
1,1-Dichloroethene	86		89		65-135	3		30
trans-1,2-Dichloroethene	89		92		70-130	3		30
Trichloroethene	92		96		70-130	4		30
1,2-Dichlorobenzene	94		98		70-130	4		30
1,3-Dichlorobenzene	94		96		70-130	2		30
1,4-Dichlorobenzene	94		95		70-130	1		30
Methyl tert butyl ether	96		97		66-130	1		30
p/m-Xylene	94		96		70-130	2		30
o-Xylene	94		97		70-130	3		30
cis-1,2-Dichloroethene	91		94		70-130	3		30
Dibromomethane	92		95		70-130	3		30
Styrene	96		99		70-130	3		30
Dichlorodifluoromethane	94		99		30-146	5		30
Acetone	109		104		54-140	5		30
Carbon disulfide	80		83		59-130	4		30
2-Butanone	108		107		70-130	1		30
Vinyl acetate	103		99		70-130	4		30
4-Methyl-2-pentanone	103		101		70-130	2		30
1,2,3-Trichloropropane	99		100		68-130	1		30
2-Hexanone	105		101		70-130	4		30
Bromochloromethane	91		94		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341893

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05 Batch: WG1808425-3 WG1808425-4								
2,2-Dichloropropane	88		90		70-130	2		30
1,2-Dibromoethane	103		105		70-130	2		30
1,3-Dichloropropane	100		101		69-130	1		30
1,1,1,2-Tetrachloroethane	93		97		70-130	4		30
Bromobenzene	93		94		70-130	1		30
n-Butylbenzene	94		96		70-130	2		30
sec-Butylbenzene	91		94		70-130	3		30
tert-Butylbenzene	91		94		70-130	3		30
o-Chlorotoluene	93		95		70-130	2		30
p-Chlorotoluene	93		96		70-130	3		30
1,2-Dibromo-3-chloropropane	94		91		68-130	3		30
Hexachlorobutadiene	87		90		67-130	3		30
Isopropylbenzene	92		94		70-130	2		30
p-Isopropyltoluene	94		96		70-130	2		30
Naphthalene	100		98		70-130	2		30
Acrylonitrile	111		110		70-130	1		30
n-Propylbenzene	94		95		70-130	1		30
1,2,3-Trichlorobenzene	96		97		70-130	1		30
1,2,4-Trichlorobenzene	96		98		70-130	2		30
1,3,5-Trimethylbenzene	93		95		70-130	2		30
1,2,4-Trimethylbenzene	93		96		70-130	3		30
1,4-Dioxane	95		93		65-136	2		30
p-Diethylbenzene	94		97		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341893
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05 Batch: WG1808425-3 WG1808425-4								
p-Ethyltoluene	94		96		70-130	2		30
1,2,4,5-Tetramethylbenzene	97		99		70-130	2		30
Ethyl ether	97		99		67-130	2		30
trans-1,4-Dichloro-2-butene	111		109		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		98		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	93		95		70-130

SEMIVOLATILES

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-01
Client ID: SB18_22-24
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 10:30
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/25/23 04:35
Analyst: JG
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 07/23/23 05:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	ND		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-01 Date Collected: 07/20/23 10:30

Client ID: SB18_22-24 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	ND		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-01 Date Collected: 07/20/23 10:30

Client ID: SB18_22-24 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	61		18-120

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-02
Client ID: SODUP03_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 00:00
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/25/23 03:01
Analyst: JG
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 07/23/23 05:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	ND		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-02 Date Collected: 07/20/23 00:00

Client ID: SODUP03_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	ND		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-02 Date Collected: 07/20/23 00:00

Client ID: SODUP03_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	94		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	94		30-120
2,4,6-Tribromophenol	112		10-136
4-Terphenyl-d14	99		18-120

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-03
Client ID: SB11_22-24
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 12:15
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/25/23 06:58
Analyst: JG
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 07/23/23 05:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	ND		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-03 Date Collected: 07/20/23 12:15

Client ID: SB11_22-24 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	ND		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-03 Date Collected: 07/20/23 12:15

Client ID: SB11_22-24 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	78		18-120

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-04
Client ID: SB14_18-20
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 16:00
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/25/23 02:37
Analyst: JG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 07/23/23 05:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-04 Date Collected: 07/20/23 16:00

Client ID: SB14_18-20 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-04 Date Collected: 07/20/23 16:00

Client ID: SB14_18-20 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	78		18-120

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-05
Client ID: SB12_12-14
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 15:40
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/25/23 04:11
Analyst: JG
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 07/23/23 05:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	150	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-05 Date Collected: 07/20/23 15:40

Client ID: SB12_12-14 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	22.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	70.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	79.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	27.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-05 Date Collected: 07/20/23 15:40

Client ID: SB12_12-14 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	550	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	16.	1
1,4-Dioxane	ND		ug/kg	26	7.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	73		18-120

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/25/23 01:26
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 07/23/23 05:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1806569-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/25/23 01:26
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 07/23/23 05:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1806569-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/25/23 01:26
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 07/23/23 05:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1806569-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	84		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341893

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1806569-2 WG1806569-3								
Acenaphthene	77		83		31-137	8		50
1,2,4-Trichlorobenzene	79		86		38-107	8		50
Hexachlorobenzene	85		94		40-140	10		50
Bis(2-chloroethyl)ether	78		84		40-140	7		50
2-Chloronaphthalene	82		86		40-140	5		50
1,2-Dichlorobenzene	79		84		40-140	6		50
1,3-Dichlorobenzene	78		83		40-140	6		50
1,4-Dichlorobenzene	79		83		28-104	5		50
3,3'-Dichlorobenzidine	61		78		40-140	24		50
2,4-Dinitrotoluene	80		89		40-132	11		50
2,6-Dinitrotoluene	84		89		40-140	6		50
Fluoranthene	84		89		40-140	6		50
4-Chlorophenyl phenyl ether	83		90		40-140	8		50
4-Bromophenyl phenyl ether	87		93		40-140	7		50
Bis(2-chloroisopropyl)ether	75		79		40-140	5		50
Bis(2-chloroethoxy)methane	76		82		40-117	8		50
Hexachlorobutadiene	82		88		40-140	7		50
Hexachlorocyclopentadiene	71		77		40-140	8		50
Hexachloroethane	78		82		40-140	5		50
Isophorone	73		79		40-140	8		50
Naphthalene	81		86		40-140	6		50
Nitrobenzene	73		78		40-140	7		50
NDPA/DPA	83		90		36-157	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341893

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1806569-2 WG1806569-3								
n-Nitrosodi-n-propylamine	75		82		32-121	9		50
Bis(2-ethylhexyl)phthalate	86		93		40-140	8		50
Butyl benzyl phthalate	86		90		40-140	5		50
Di-n-butylphthalate	87		93		40-140	7		50
Di-n-octylphthalate	87		95		40-140	9		50
Diethyl phthalate	82		88		40-140	7		50
Dimethyl phthalate	81		86		40-140	6		50
Benzo(a)anthracene	82		89		40-140	8		50
Benzo(a)pyrene	86		91		40-140	6		50
Benzo(b)fluoranthene	83		91		40-140	9		50
Benzo(k)fluoranthene	83		89		40-140	7		50
Chrysene	84		90		40-140	7		50
Acenaphthylene	83		87		40-140	5		50
Anthracene	86		92		40-140	7		50
Benzo(ghi)perylene	86		93		40-140	8		50
Fluorene	82		89		40-140	8		50
Phenanthrene	84		89		40-140	6		50
Dibenzo(a,h)anthracene	86		96		40-140	11		50
Indeno(1,2,3-cd)pyrene	85		93		40-140	9		50
Pyrene	84		89		35-142	6		50
Biphenyl	90		95		37-127	5		50
4-Chloroaniline	59		68		40-140	14		50
2-Nitroaniline	83		89		47-134	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341893

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1806569-2 WG1806569-3								
3-Nitroaniline	69		79		26-129	14		50
4-Nitroaniline	83		91		41-125	9		50
Dibenzofuran	84		92		40-140	9		50
2-Methylnaphthalene	84		90		40-140	7		50
1,2,4,5-Tetrachlorobenzene	92		98		40-117	6		50
Acetophenone	85		92		14-144	8		50
2,4,6-Trichlorophenol	87		94		30-130	8		50
p-Chloro-m-cresol	85		91		26-103	7		50
2-Chlorophenol	86		91		25-102	6		50
2,4-Dichlorophenol	86		93		30-130	8		50
2,4-Dimethylphenol	82		89		30-130	8		50
2-Nitrophenol	78		86		30-130	10		50
4-Nitrophenol	86		93		11-114	8		50
2,4-Dinitrophenol	56		47		4-130	17		50
4,6-Dinitro-o-cresol	84		90		10-130	7		50
Pentachlorophenol	82		89		17-109	8		50
Phenol	84		**91**	Q	26-90	8		50
2-Methylphenol	83		90		30-130.	8		50
3-Methylphenol/4-Methylphenol	80		86		30-130	7		50
2,4,5-Trichlorophenol	89		96		30-130	8		50
Benzoic Acid	12		**7**	Q	10-110	47		50
Benzyl Alcohol	80		88		40-140	10		50
Carbazole	87		92		54-128	6		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341893
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1806569-2 WG1806569-3								
1,4-Dioxane	68		69		40-140	1		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	91		102		25-120
Phenol-d6	84		94		10-120
Nitrobenzene-d5	75		83		23-120
2-Fluorobiphenyl	82		90		30-120
2,4,6-Tribromophenol	89		99		10-136
4-Terphenyl-d14	86		94		18-120

PCBS

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-01
Client ID: SB18_22-24
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 10:30
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/24/23 12:40
Analyst: MEO
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 07/23/23 11:28
Cleanup Method: EPA 3665A
Cleanup Date: 07/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	51.4	4.57	1	A
Aroclor 1221	ND		ug/kg	51.4	5.15	1	A
Aroclor 1232	ND		ug/kg	51.4	10.9	1	A
Aroclor 1242	ND		ug/kg	51.4	6.94	1	A
Aroclor 1248	ND		ug/kg	51.4	7.72	1	A
Aroclor 1254	ND		ug/kg	51.4	5.63	1	A
Aroclor 1260	ND		ug/kg	51.4	9.51	1	A
Aroclor 1262	ND		ug/kg	51.4	6.53	1	A
Aroclor 1268	ND		ug/kg	51.4	5.33	1	A
PCBs, Total	ND		ug/kg	51.4	4.57	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-02
Client ID: SODUP03_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 00:00
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/24/23 12:48
Analyst: MEO
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 07/23/23 11:28
Cleanup Method: EPA 3665A
Cleanup Date: 07/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	53.8	4.78	1	A
Aroclor 1221	ND		ug/kg	53.8	5.39	1	A
Aroclor 1232	ND		ug/kg	53.8	11.4	1	A
Aroclor 1242	ND		ug/kg	53.8	7.25	1	A
Aroclor 1248	ND		ug/kg	53.8	8.07	1	A
Aroclor 1254	ND		ug/kg	53.8	5.89	1	A
Aroclor 1260	ND		ug/kg	53.8	9.95	1	B
Aroclor 1262	ND		ug/kg	53.8	6.84	1	A
Aroclor 1268	ND		ug/kg	53.8	5.58	1	A
PCBs, Total	ND		ug/kg	53.8	4.78	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-03
Client ID: SB11_22-24
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 12:15
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/24/23 12:56
Analyst: MEO
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 07/23/23 11:28
Cleanup Method: EPA 3665A
Cleanup Date: 07/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	49.4	4.39	1	A
Aroclor 1221	ND		ug/kg	49.4	4.95	1	A
Aroclor 1232	ND		ug/kg	49.4	10.5	1	A
Aroclor 1242	ND		ug/kg	49.4	6.66	1	A
Aroclor 1248	ND		ug/kg	49.4	7.41	1	A
Aroclor 1254	ND		ug/kg	49.4	5.40	1	A
Aroclor 1260	ND		ug/kg	49.4	9.13	1	A
Aroclor 1262	ND		ug/kg	49.4	6.27	1	A
Aroclor 1268	ND		ug/kg	49.4	5.12	1	A
PCBs, Total	ND		ug/kg	49.4	4.39	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-04
Client ID: SB14_18-20
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 16:00
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/24/23 13:04
Analyst: MEO
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 07/23/23 11:28
Cleanup Method: EPA 3665A
Cleanup Date: 07/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	52.6	4.68	1	A
Aroclor 1221	ND		ug/kg	52.6	5.28	1	A
Aroclor 1232	ND		ug/kg	52.6	11.2	1	A
Aroclor 1242	ND		ug/kg	52.6	7.10	1	A
Aroclor 1248	ND		ug/kg	52.6	7.90	1	A
Aroclor 1254	ND		ug/kg	52.6	5.76	1	A
Aroclor 1260	ND		ug/kg	52.6	9.73	1	A
Aroclor 1262	ND		ug/kg	52.6	6.69	1	A
Aroclor 1268	ND		ug/kg	52.6	5.45	1	A
PCBs, Total	ND		ug/kg	52.6	4.68	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-05
Client ID: SB12_12-14
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 15:40
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/24/23 13:12
Analyst: MEO
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 07/23/23 11:28
Cleanup Method: EPA 3665A
Cleanup Date: 07/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	48.5	4.31	1	A
Aroclor 1221	ND		ug/kg	48.5	4.86	1	A
Aroclor 1232	ND		ug/kg	48.5	10.3	1	A
Aroclor 1242	ND		ug/kg	48.5	6.54	1	A
Aroclor 1248	ND		ug/kg	48.5	7.28	1	A
Aroclor 1254	ND		ug/kg	48.5	5.31	1	A
Aroclor 1260	ND		ug/kg	48.5	8.97	1	A
Aroclor 1262	ND		ug/kg	48.5	6.16	1	A
Aroclor 1268	ND		ug/kg	48.5	5.03	1	A
PCBs, Total	ND		ug/kg	48.5	4.31	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/24/23 12:00
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 07/23/23 11:28
Cleanup Method: EPA 3665A
Cleanup Date: 07/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-05 Batch: WG1806622-1						
Aroclor 1016	ND		ug/kg	47.6	4.22	A
Aroclor 1221	ND		ug/kg	47.6	4.77	A
Aroclor 1232	ND		ug/kg	47.6	10.1	A
Aroclor 1242	ND		ug/kg	47.6	6.41	A
Aroclor 1248	ND		ug/kg	47.6	7.14	A
Aroclor 1254	ND		ug/kg	47.6	5.20	A
Aroclor 1260	ND		ug/kg	47.6	8.79	A
Aroclor 1262	ND		ug/kg	47.6	6.04	A
Aroclor 1268	ND		ug/kg	47.6	4.93	A
PCBs, Total	ND		ug/kg	47.6	4.22	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	85		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341893
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1806622-2 WG1806622-3									
Aroclor 1016	76		76		40-140	0		50	A
Aroclor 1260	74		76		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		74		30-150	A
Decachlorobiphenyl	75		77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		76		30-150	B
Decachlorobiphenyl	81		83		30-150	B

PESTICIDES

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-01
Client ID: SB18_22-24
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 10:30
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/25/23 10:53
Analyst: AKM
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 07/23/23 14:00
Cleanup Method: EPA 3620B
Cleanup Date: 07/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.340	1	A
Lindane	ND		ug/kg	0.722	0.323	1	A
Alpha-BHC	ND		ug/kg	0.722	0.205	1	A
Beta-BHC	ND		ug/kg	1.73	0.657	1	A
Heptachlor	ND		ug/kg	0.867	0.389	1	A
Aldrin	ND		ug/kg	1.73	0.610	1	A
Heptachlor epoxide	ND		ug/kg	3.25	0.975	1	A
Endrin	ND		ug/kg	0.722	0.296	1	A
Endrin aldehyde	ND		ug/kg	2.17	0.759	1	A
Endrin ketone	ND		ug/kg	1.73	0.446	1	A
Dieldrin	ND		ug/kg	1.08	0.542	1	A
4,4'-DDE	ND		ug/kg	1.73	0.401	1	A
4,4'-DDD	ND		ug/kg	1.73	0.618	1	A
4,4'-DDT	ND		ug/kg	1.73	1.39	1	A
Endosulfan I	ND		ug/kg	1.73	0.410	1	A
Endosulfan II	ND		ug/kg	1.73	0.579	1	A
Endosulfan sulfate	ND		ug/kg	0.722	0.344	1	A
Methoxychlor	ND		ug/kg	3.25	1.01	1	A
Toxaphene	ND		ug/kg	32.5	9.10	1	A
cis-Chlordane	ND		ug/kg	2.17	0.604	1	A
trans-Chlordane	ND		ug/kg	2.17	0.572	1	A
Chlordane	ND		ug/kg	14.4	5.74	1	A

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-01 Date Collected: 07/20/23 10:30

Client ID: SB18_22-24 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-02
Client ID: SODUP03_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 00:00
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/25/23 11:05
Analyst: AKM
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 07/23/23 14:00
Cleanup Method: EPA 3620B
Cleanup Date: 07/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.67	0.326	1	A
Lindane	ND		ug/kg	0.695	0.310	1	A
Alpha-BHC	ND		ug/kg	0.695	0.197	1	A
Beta-BHC	ND		ug/kg	1.67	0.632	1	A
Heptachlor	ND		ug/kg	0.834	0.374	1	A
Aldrin	ND		ug/kg	1.67	0.587	1	A
Heptachlor epoxide	ND		ug/kg	3.13	0.938	1	A
Endrin	ND		ug/kg	0.695	0.285	1	A
Endrin aldehyde	ND		ug/kg	2.08	0.729	1	A
Endrin ketone	ND		ug/kg	1.67	0.429	1	A
Dieldrin	ND		ug/kg	1.04	0.521	1	A
4,4'-DDE	ND		ug/kg	1.67	0.386	1	A
4,4'-DDD	ND		ug/kg	1.67	0.595	1	A
4,4'-DDT	ND		ug/kg	1.67	1.34	1	A
Endosulfan I	ND		ug/kg	1.67	0.394	1	A
Endosulfan II	ND		ug/kg	1.67	0.557	1	A
Endosulfan sulfate	ND		ug/kg	0.695	0.331	1	A
Methoxychlor	ND		ug/kg	3.13	0.973	1	A
Toxaphene	ND		ug/kg	31.3	8.75	1	A
cis-Chlordane	ND		ug/kg	2.08	0.581	1	A
trans-Chlordane	ND		ug/kg	2.08	0.550	1	A
Chlordane	ND		ug/kg	13.9	5.52	1	A

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-02 Date Collected: 07/20/23 00:00

Client ID: SODUP03_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-03
Client ID: SB11_22-24
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 12:15
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/25/23 11:16
Analyst: AKM
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 07/23/23 14:00
Cleanup Method: EPA 3620B
Cleanup Date: 07/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.62	0.318	1	A
Lindane	ND		ug/kg	0.677	0.303	1	A
Alpha-BHC	ND		ug/kg	0.677	0.192	1	A
Beta-BHC	ND		ug/kg	1.62	0.616	1	A
Heptachlor	ND		ug/kg	0.813	0.364	1	A
Aldrin	ND		ug/kg	1.62	0.572	1	A
Heptachlor epoxide	ND		ug/kg	3.05	0.914	1	A
Endrin	ND		ug/kg	0.677	0.278	1	A
Endrin aldehyde	ND		ug/kg	2.03	0.711	1	A
Endrin ketone	ND		ug/kg	1.62	0.419	1	A
Dieldrin	ND		ug/kg	1.02	0.508	1	A
4,4'-DDE	ND		ug/kg	1.62	0.376	1	A
4,4'-DDD	ND		ug/kg	1.62	0.580	1	A
4,4'-DDT	ND		ug/kg	1.62	1.31	1	A
Endosulfan I	ND		ug/kg	1.62	0.384	1	A
Endosulfan II	ND		ug/kg	1.62	0.543	1	A
Endosulfan sulfate	ND		ug/kg	0.677	0.322	1	A
Methoxychlor	ND		ug/kg	3.05	0.948	1	A
Toxaphene	ND		ug/kg	30.5	8.53	1	A
cis-Chlordane	ND		ug/kg	2.03	0.566	1	A
trans-Chlordane	ND		ug/kg	2.03	0.536	1	A
Chlordane	ND		ug/kg	13.5	5.38	1	A

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-03 Date Collected: 07/20/23 12:15

Client ID: SB11_22-24 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-04
Client ID: SB14_18-20
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 16:00
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/25/23 11:28
Analyst: AKM
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 07/23/23 14:00
Cleanup Method: EPA 3620B
Cleanup Date: 07/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.325	1	A
Lindane	ND		ug/kg	0.692	0.310	1	A
Alpha-BHC	ND		ug/kg	0.692	0.197	1	A
Beta-BHC	ND		ug/kg	1.66	0.630	1	A
Heptachlor	ND		ug/kg	0.831	0.372	1	A
Aldrin	ND		ug/kg	1.66	0.585	1	A
Heptachlor epoxide	ND		ug/kg	3.12	0.935	1	A
Endrin	ND		ug/kg	0.692	0.284	1	A
Endrin aldehyde	ND		ug/kg	2.08	0.727	1	A
Endrin ketone	ND		ug/kg	1.66	0.428	1	A
Dieldrin	ND		ug/kg	1.04	0.519	1	A
4,4'-DDE	0.645	J	ug/kg	1.66	0.384	1	B
4,4'-DDD	1.58	J	ug/kg	1.66	0.593	1	A
4,4'-DDT	ND		ug/kg	1.66	1.34	1	A
Endosulfan I	ND		ug/kg	1.66	0.393	1	A
Endosulfan II	ND		ug/kg	1.66	0.555	1	A
Endosulfan sulfate	ND		ug/kg	0.692	0.330	1	A
Methoxychlor	ND		ug/kg	3.12	0.969	1	A
Toxaphene	ND		ug/kg	31.2	8.72	1	A
cis-Chlordane	ND		ug/kg	2.08	0.579	1	A
trans-Chlordane	ND		ug/kg	2.08	0.548	1	A
Chlordane	ND		ug/kg	13.8	5.50	1	A

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-04 Date Collected: 07/20/23 16:00

Client ID: SB14_18-20 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-05
Client ID: SB12_12-14
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 15:40
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/25/23 11:39
Analyst: AKM
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 07/23/23 14:00
Cleanup Method: EPA 3620B
Cleanup Date: 07/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.61	0.315	1	A
Lindane	ND		ug/kg	0.670	0.299	1	A
Alpha-BHC	ND		ug/kg	0.670	0.190	1	A
Beta-BHC	ND		ug/kg	1.61	0.610	1	A
Heptachlor	ND		ug/kg	0.804	0.360	1	A
Aldrin	ND		ug/kg	1.61	0.566	1	A
Heptachlor epoxide	ND		ug/kg	3.01	0.904	1	A
Endrin	ND		ug/kg	0.670	0.275	1	A
Endrin aldehyde	ND		ug/kg	2.01	0.703	1	A
Endrin ketone	ND		ug/kg	1.61	0.414	1	A
Dieldrin	ND		ug/kg	1.00	0.502	1	A
4,4'-DDE	ND		ug/kg	1.61	0.372	1	A
4,4'-DDD	ND		ug/kg	1.61	0.573	1	A
4,4'-DDT	ND		ug/kg	1.61	1.29	1	A
Endosulfan I	ND		ug/kg	1.61	0.380	1	A
Endosulfan II	ND		ug/kg	1.61	0.537	1	A
Endosulfan sulfate	ND		ug/kg	0.670	0.319	1	A
Methoxychlor	ND		ug/kg	3.01	0.938	1	A
Toxaphene	ND		ug/kg	30.1	8.44	1	A
cis-Chlordane	ND		ug/kg	2.01	0.560	1	A
trans-Chlordane	ND		ug/kg	2.01	0.530	1	A
Chlordane	ND		ug/kg	13.4	5.32	1	A

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-05 Date Collected: 07/20/23 15:40

Client ID: SB12_12-14 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/25/23 08:36
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 07/23/23 14:00
Cleanup Method: EPA 3620B
Cleanup Date: 07/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1806643-1						
Delta-BHC	ND		ug/kg	1.51	0.296	A
Lindane	ND		ug/kg	0.631	0.282	A
Alpha-BHC	ND		ug/kg	0.631	0.179	A
Beta-BHC	ND		ug/kg	1.51	0.574	A
Heptachlor	ND		ug/kg	0.757	0.339	A
Aldrin	ND		ug/kg	1.51	0.533	A
Heptachlor epoxide	ND		ug/kg	2.84	0.852	A
Endrin	ND		ug/kg	0.631	0.259	A
Endrin aldehyde	ND		ug/kg	1.89	0.662	A
Endrin ketone	ND		ug/kg	1.51	0.390	A
Dieldrin	ND		ug/kg	0.946	0.473	A
4,4'-DDE	ND		ug/kg	1.51	0.350	A
4,4'-DDD	ND		ug/kg	1.51	0.540	A
4,4'-DDT	ND		ug/kg	1.51	1.22	A
Endosulfan I	ND		ug/kg	1.51	0.358	A
Endosulfan II	ND		ug/kg	1.51	0.506	A
Endosulfan sulfate	ND		ug/kg	0.631	0.300	A
Methoxychlor	ND		ug/kg	2.84	0.883	A
Toxaphene	ND		ug/kg	28.4	7.95	A
cis-Chlordane	ND		ug/kg	1.89	0.527	A
trans-Chlordane	ND		ug/kg	1.89	0.500	A
Chlordane	ND		ug/kg	12.6	5.02	A

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/25/23 08:36
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 07/23/23 14:00
Cleanup Method: EPA 3620B
Cleanup Date: 07/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1806643-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	94		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341893

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1806643-2 WG1806643-3									
Delta-BHC	88		88		30-150	0		30	A
Lindane	79		80		30-150	1		30	A
Alpha-BHC	85		86		30-150	1		30	A
Beta-BHC	86		88		30-150	2		30	A
Heptachlor	74		74		30-150	0		30	A
Aldrin	78		81		30-150	4		30	A
Heptachlor epoxide	78		78		30-150	0		30	A
Endrin	79		82		30-150	4		30	A
Endrin aldehyde	62		62		30-150	0		30	A
Endrin ketone	79		80		30-150	1		30	A
Dieldrin	85		86		30-150	1		30	A
4,4'-DDE	78		80		30-150	3		30	A
4,4'-DDD	85		86		30-150	1		30	A
4,4'-DDT	85		87		30-150	2		30	A
Endosulfan I	76		77		30-150	1		30	A
Endosulfan II	81		82		30-150	1		30	A
Endosulfan sulfate	67		68		30-150	1		30	A
Methoxychlor	78		78		30-150	0		30	A
cis-Chlordane	80		82		30-150	2		30	A
trans-Chlordane	87		92		30-150	6		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341893

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1806643-2 WG1806643-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		76		30-150	A
Decachlorobiphenyl	87		86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		74		30-150	B
Decachlorobiphenyl	89		90		30-150	B

METALS

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-01 Date Collected: 07/20/23 10:30

Client ID: SB18_22-24 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3070		mg/kg	8.34	2.25	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Antimony, Total	ND		mg/kg	4.17	0.317	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Arsenic, Total	1.42		mg/kg	0.834	0.173	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Barium, Total	6.40		mg/kg	0.834	0.145	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.242	J	mg/kg	0.417	0.028	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Cadmium, Total	ND		mg/kg	0.834	0.082	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Calcium, Total	33.0		mg/kg	8.34	2.92	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Chromium, Total	4.20		mg/kg	0.834	0.080	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Cobalt, Total	0.983	J	mg/kg	1.67	0.138	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Copper, Total	2.78		mg/kg	0.834	0.215	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Iron, Total	4890		mg/kg	4.17	0.753	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Lead, Total	1.44	J	mg/kg	4.17	0.224	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Magnesium, Total	184		mg/kg	8.34	1.28	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Manganese, Total	49.5		mg/kg	0.834	0.133	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Mercury, Total	ND		mg/kg	0.079	0.051	1	07/25/23 03:42	07/28/23 14:20	EPA 7471B	1,7471B	MJR
Nickel, Total	2.65		mg/kg	2.08	0.202	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Potassium, Total	121	J	mg/kg	208	12.0	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Selenium, Total	ND		mg/kg	1.67	0.215	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.417	0.236	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Sodium, Total	11.2	J	mg/kg	167	2.63	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Thallium, Total	ND		mg/kg	1.67	0.263	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Vanadium, Total	4.02		mg/kg	0.834	0.169	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
Zinc, Total	6.06		mg/kg	4.17	0.244	2	07/25/23 03:10	07/26/23 21:17	EPA 3050B	1,6010D	MRC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	3.90	J	mg/kg	0.873	0.175	1		07/26/23 21:17	NA	107,-	

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-02 Date Collected: 07/20/23 00:00

Client ID: SODUP03_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1620		mg/kg	8.27	2.23	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Antimony, Total	ND		mg/kg	4.14	0.314	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Arsenic, Total	1.93		mg/kg	0.827	0.172	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Barium, Total	5.62		mg/kg	0.827	0.144	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.243	J	mg/kg	0.414	0.027	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Cadmium, Total	0.132	J	mg/kg	0.827	0.081	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Calcium, Total	60.5		mg/kg	8.27	2.89	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Chromium, Total	12.6		mg/kg	0.827	0.079	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Cobalt, Total	0.872	J	mg/kg	1.65	0.137	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Copper, Total	2.52		mg/kg	0.827	0.213	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Iron, Total	7520		mg/kg	4.14	0.747	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Lead, Total	1.81	J	mg/kg	4.14	0.222	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Magnesium, Total	261		mg/kg	8.27	1.27	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Manganese, Total	35.1		mg/kg	0.827	0.132	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Mercury, Total	ND		mg/kg	0.069	0.045	1	07/25/23 03:42	07/28/23 15:36	EPA 7471B	1,7471B	MJR
Nickel, Total	3.94		mg/kg	2.07	0.200	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Potassium, Total	127	J	mg/kg	207	11.9	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Selenium, Total	ND		mg/kg	1.65	0.213	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.414	0.234	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Sodium, Total	11.6	J	mg/kg	165	2.60	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Thallium, Total	ND		mg/kg	1.65	0.260	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Vanadium, Total	4.88		mg/kg	0.827	0.168	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
Zinc, Total	6.53		mg/kg	4.14	0.242	2	07/25/23 03:10	07/26/23 22:19	EPA 3050B	1,6010D	MRC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12.4	J	mg/kg	0.871	0.174	1		07/26/23 22:19	NA	107,-	

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-03 Date Collected: 07/20/23 12:15

Client ID: SB11_22-24 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1010		mg/kg	8.13	2.19	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Antimony, Total	ND		mg/kg	4.06	0.309	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Arsenic, Total	0.697	J	mg/kg	0.813	0.169	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Barium, Total	5.51		mg/kg	0.813	0.141	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.200	J	mg/kg	0.406	0.027	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Cadmium, Total	ND		mg/kg	0.813	0.080	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Calcium, Total	1300		mg/kg	8.13	2.84	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Chromium, Total	5.07		mg/kg	0.813	0.078	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Cobalt, Total	1.39	J	mg/kg	1.62	0.135	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Copper, Total	2.88		mg/kg	0.813	0.210	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Iron, Total	4010		mg/kg	4.06	0.734	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Lead, Total	1.13	J	mg/kg	4.06	0.218	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Magnesium, Total	1090		mg/kg	8.13	1.25	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Manganese, Total	170		mg/kg	0.813	0.129	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Mercury, Total	ND		mg/kg	0.076	0.050	1	07/25/23 03:42	07/28/23 15:40	EPA 7471B	1,7471B	MJR
Nickel, Total	3.54		mg/kg	2.03	0.197	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Potassium, Total	151	J	mg/kg	203	11.7	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Selenium, Total	ND		mg/kg	1.62	0.210	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.406	0.230	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Sodium, Total	18.7	J	mg/kg	162	2.56	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Thallium, Total	ND		mg/kg	1.62	0.256	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Vanadium, Total	2.76		mg/kg	0.813	0.165	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
Zinc, Total	6.81		mg/kg	4.06	0.238	2	07/25/23 03:10	07/26/23 22:24	EPA 3050B	1,6010D	MRC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	4.88	J	mg/kg	0.858	0.172	1		07/26/23 22:24	NA	107,-	

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-04 Date Collected: 07/20/23 16:00

Client ID: SB14_18-20 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	907		mg/kg	8.33	2.25	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Antimony, Total	ND		mg/kg	4.16	0.316	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Arsenic, Total	0.718	J	mg/kg	0.833	0.173	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Barium, Total	3.91		mg/kg	0.833	0.145	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.181	J	mg/kg	0.416	0.028	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Cadmium, Total	ND		mg/kg	0.833	0.082	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Calcium, Total	158		mg/kg	8.33	2.91	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Chromium, Total	3.86		mg/kg	0.833	0.080	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Cobalt, Total	0.595	J	mg/kg	1.66	0.138	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Copper, Total	3.93		mg/kg	0.833	0.215	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Iron, Total	3180		mg/kg	4.16	0.752	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Lead, Total	1.39	J	mg/kg	4.16	0.223	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Magnesium, Total	268		mg/kg	8.33	1.28	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Manganese, Total	16.0		mg/kg	0.833	0.132	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Mercury, Total	ND		mg/kg	0.077	0.050	1	07/25/23 03:42	07/28/23 15:43	EPA 7471B	1,7471B	MJR
Nickel, Total	1.47	J	mg/kg	2.08	0.201	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Potassium, Total	127	J	mg/kg	208	12.0	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Selenium, Total	ND		mg/kg	1.66	0.215	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Silver, Total	0.700		mg/kg	0.416	0.236	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Sodium, Total	14.2	J	mg/kg	166	2.62	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Thallium, Total	ND		mg/kg	1.66	0.262	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Vanadium, Total	2.42		mg/kg	0.833	0.169	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
Zinc, Total	4.26		mg/kg	4.16	0.244	2	07/25/23 03:10	07/26/23 22:28	EPA 3050B	1,6010D	MRC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	3.86		mg/kg	0.875	0.175	1		07/26/23 22:28	NA	107,-	

Project Name: PROJECT MAXIMUS
Lab Number: L2341893
Project Number: 170754501
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-05
Client ID: SB12_12-14
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/20/23 15:40
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1170		mg/kg	7.90	2.13	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Antimony, Total	ND		mg/kg	3.95	0.300	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Arsenic, Total	0.650	J	mg/kg	0.790	0.164	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Barium, Total	7.24		mg/kg	0.790	0.138	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.214	J	mg/kg	0.395	0.026	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Cadmium, Total	ND		mg/kg	0.790	0.078	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Calcium, Total	106		mg/kg	7.90	2.77	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Chromium, Total	3.77		mg/kg	0.790	0.076	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Cobalt, Total	1.02	J	mg/kg	1.58	0.131	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Copper, Total	2.40		mg/kg	0.790	0.204	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Iron, Total	4140		mg/kg	3.95	0.714	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Lead, Total	1.29	J	mg/kg	3.95	0.212	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Magnesium, Total	359		mg/kg	7.90	1.22	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Manganese, Total	53.8		mg/kg	0.790	0.126	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Mercury, Total	ND		mg/kg	0.072	0.047	1	07/25/23 03:42	07/28/23 15:46	EPA 7471B	1,7471B	MJR
Nickel, Total	2.15		mg/kg	1.98	0.191	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Potassium, Total	224		mg/kg	198	11.4	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Selenium, Total	ND		mg/kg	1.58	0.204	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.395	0.224	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Sodium, Total	17.7	J	mg/kg	158	2.49	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Thallium, Total	ND		mg/kg	1.58	0.249	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Vanadium, Total	3.00		mg/kg	0.790	0.160	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
Zinc, Total	4.34		mg/kg	3.95	0.232	2	07/25/23 03:10	07/26/23 22:33	EPA 3050B	1,6010D	MRC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	3.54	J	mg/kg	0.832	0.166	1		07/26/23 22:33	NA	107,-	

Project Name: PROJECT MAXIMUS **Lab Number:** L2341893

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1806116-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Antimony, Total	ND		mg/kg	2.00	0.152	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Barium, Total	ND		mg/kg	0.400	0.070	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Calcium, Total	ND		mg/kg	4.00	1.40	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Chromium, Total	ND		mg/kg	0.400	0.038	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Copper, Total	ND		mg/kg	0.400	0.103	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Iron, Total	ND		mg/kg	2.00	0.361	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Lead, Total	ND		mg/kg	2.00	0.107	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Manganese, Total	ND		mg/kg	0.400	0.064	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Nickel, Total	ND		mg/kg	1.00	0.097	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Potassium, Total	ND		mg/kg	100	5.76	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Selenium, Total	ND		mg/kg	0.800	0.103	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Silver, Total	ND		mg/kg	0.200	0.113	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Sodium, Total	ND		mg/kg	80.0	1.26	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Thallium, Total	ND		mg/kg	0.800	0.126	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC
Zinc, Total	ND		mg/kg	2.00	0.117	1	07/25/23 03:10	07/26/23 20:54	1,6010D	MRC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1806117-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	07/25/23 03:42	07/28/23 14:14	1,7471B	MJR

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341893

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1806116-2 SRM Lot Number: D119-540								
Aluminum, Total	76		-		48-152	-		
Antimony, Total	143		-		10-190	-		
Arsenic, Total	102		-		83-117	-		
Barium, Total	96		-		82-118	-		
Beryllium, Total	101		-		83-117	-		
Cadmium, Total	103		-		82-117	-		
Calcium, Total	96		-		81-118	-		
Chromium, Total	104		-		82-119	-		
Cobalt, Total	104		-		83-117	-		
Copper, Total	106		-		84-116	-		
Iron, Total	96		-		60-140	-		
Lead, Total	105		-		82-118	-		
Magnesium, Total	93		-		76-124	-		
Manganese, Total	101		-		82-118	-		
Nickel, Total	105		-		82-117	-		
Potassium, Total	86		-		70-130	-		
Selenium, Total	101		-		79-121	-		
Silver, Total	100		-		80-120	-		
Sodium, Total	98		-		74-126	-		
Thallium, Total	104		-		81-119	-		
Vanadium, Total	101		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341893

Report Date: 07/28/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1806116-2 SRM Lot Number: D119-540					
Zinc, Total	102	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1806117-2 SRM Lot Number: D119-540					
Mercury, Total	88	-	73-127	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341893
Report Date: 07/28/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1806116-3 QC Sample: L2341893-01 Client ID: SB18_22-24												
Aluminum, Total	3070	165	3040	**0**	Q	-	-		75-125	-		20
Antimony, Total	ND	41.2	38.5	94		-	-		75-125	-		20
Arsenic, Total	1.42	9.88	11.7	104		-	-		75-125	-		20
Barium, Total	6.40	165	170	99		-	-		75-125	-		20
Beryllium, Total	0.242J	4.12	4.64	113		-	-		75-125	-		20
Cadmium, Total	ND	4.36	4.68	107		-	-		75-125	-		20
Calcium, Total	33.0	823	824	96		-	-		75-125	-		20
Chromium, Total	4.20	16.5	22.7	112		-	-		75-125	-		20
Cobalt, Total	0.983J	41.2	42.4	103		-	-		75-125	-		20
Copper, Total	2.78	20.6	24.9	107		-	-		75-125	-		20
Iron, Total	4890	82.3	6020	**1370**	Q	-	-		75-125	-		20
Lead, Total	1.44J	43.6	47.1	108		-	-		75-125	-		20
Magnesium, Total	184	823	1040	104		-	-		75-125	-		20
Manganese, Total	49.5	41.2	94.6	110		-	-		75-125	-		20
Nickel, Total	2.65	41.2	44.4	101		-	-		75-125	-		20
Potassium, Total	121J	823	990	120		-	-		75-125	-		20
Selenium, Total	ND	9.88	9.78	99		-	-		75-125	-		20
Silver, Total	ND	4.12	4.05	98		-	-		75-125	-		20
Sodium, Total	11.2J	823	840	102		-	-		75-125	-		20
Thallium, Total	ND	9.88	10.1	102		-	-		75-125	-		20
Vanadium, Total	4.02	41.2	48.5	108		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341893
Report Date: 07/28/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1806116-3 QC Sample: L2341893-01 Client ID: SB18_22-24									
Zinc, Total	6.06	41.2	46.9	99	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1806117-3 QC Sample: L2341893-01 Client ID: SB18_22-24									
Mercury, Total	ND	1.55	1.56	100	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341893
Report Date: 07/28/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1806116-4 QC Sample: L2341893-01 Client ID: SB18_22-24						
Aluminum, Total	3070	2770	mg/kg	10		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	1.42	1.51	mg/kg	6		20
Barium, Total	6.40	6.03	mg/kg	6		20
Beryllium, Total	0.242J	0.270J	mg/kg	NC		20
Cadmium, Total	ND	0.104J	mg/kg	NC		20
Calcium, Total	33.0	35.2	mg/kg	6		20
Chromium, Total	4.20	4.19	mg/kg	0		20
Cobalt, Total	0.983J	0.892J	mg/kg	NC		20
Copper, Total	2.78	2.64	mg/kg	5		20
Iron, Total	4890	6230	mg/kg	**24**	Q	20
Lead, Total	1.44J	1.48J	mg/kg	NC		20
Magnesium, Total	184	185	mg/kg	1		20
Manganese, Total	49.5	57.6	mg/kg	15		20
Nickel, Total	2.65	2.65	mg/kg	0		20
Potassium, Total	121J	120J	mg/kg	NC		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	11.2J	12.7J	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341893
Report Date: 07/28/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1806116-4 QC Sample: L2341893-01 Client ID: SB18_22-24					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	4.02	4.36	mg/kg	8	20
Zinc, Total	6.06	6.98	mg/kg	14	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1806117-4 QC Sample: L2341893-01 Client ID: SB18_22-24					
Mercury, Total	ND	ND	mg/kg	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-01
Client ID: SB18_22-24
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/20/23 10:30
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.6		%	0.100	NA	1	-	07/21/23 12:52	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.1	0.22	1	07/26/23 04:30	07/26/23 13:51	1,9010C/9012B	JER
Chromium, Hexavalent	0.295	J	mg/kg	0.873	0.175	1	07/25/23 14:10	07/25/23 21:45	1,7196A	WMT

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-02
Client ID: SODUP03_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/20/23 00:00
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.8		%	0.100	NA	1	-	07/21/23 12:52	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	07/26/23 04:30	07/26/23 13:52	1,9010C/9012B	JER
Chromium, Hexavalent	0.196	J	mg/kg	0.871	0.174	1	07/25/23 14:10	07/25/23 21:45	1,7196A	WMT

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-03
Client ID: SB11_22-24
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/20/23 12:15
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.2		%	0.100	NA	1	-	07/21/23 12:52	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	07/26/23 04:30	07/26/23 13:53	1,9010C/9012B	JER
Chromium, Hexavalent	0.193	J	mg/kg	0.858	0.172	1	07/25/23 14:10	07/25/23 21:45	1,7196A	WMT

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-04
Client ID: SB14_18-20
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/20/23 16:00
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.4		%	0.100	NA	1	-	07/21/23 12:52	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	07/26/23 04:30	07/26/23 13:54	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	0.875	0.175	1	07/25/23 14:10	07/25/23 21:45	1,7196A	WMT

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341893-05
Client ID: SB12_12-14
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/20/23 15:40
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.2		%	0.100	NA	1	-	07/21/23 12:52	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	07/26/23 04:30	07/26/23 13:55	1,9010C/9012B	JER
Chromium, Hexavalent	0.229	J	mg/kg	0.832	0.166	1	07/25/23 14:10	07/25/23 21:45	1,7196A	WMT

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341893
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1806039-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	07/25/23 14:10	07/25/23 21:45	1,7196A	WMT
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1807699-1										
Cyanide, Total	ND		mg/kg	0.94	0.20	1	07/26/23 04:30	07/26/23 13:24	1,9010C/9012B	JER

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341893

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1806039-2								
Chromium, Hexavalent	**79**	Q	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1807699-2 WG1807699-3								
Cyanide, Total	93		91		80-120	11		35

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341893
Report Date: 07/28/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1806039-4 QC Sample: L2341450-05 Client ID: MS Sample												
Chromium, Hexavalent	0.178J	1190	1160	97		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1807699-4 WG1807699-5 QC Sample: L2341642-11 Client ID: MS Sample												
Cyanide, Total	ND	10	9.8	98		8.9	89		75-125	10		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341893
Report Date: 07/28/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1806029-1 QC Sample: L2341642-01 Client ID: DUP Sample						
Solids, Total	84.5	85.2	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1806039-6 QC Sample: L2341450-05 Client ID: DUP Sample						
Chromium, Hexavalent	0.178J	0.178J	mg/kg	NC		20

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341893
Report Date: 07/28/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2341893-01A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L2341893-01B	Vial water preserved	A	NA		4.7	Y	Absent	21-JUL-23 07:56	NYTCL-8260HLW(14)
L2341893-01C	Vial water preserved	A	NA		4.7	Y	Absent	21-JUL-23 07:56	NYTCL-8260HLW(14)
L2341893-01D	Plastic 120ml unpreserved	A	NA		4.7	Y	Absent		TS(7)
L2341893-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MG-TI(180),HG-T(28),FE-TI(180),MN-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2341893-01F	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2341893-01G	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2341893-02A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L2341893-02B	Vial water preserved	A	NA		4.7	Y	Absent	21-JUL-23 07:56	NYTCL-8260HLW(14)
L2341893-02C	Vial water preserved	A	NA		4.7	Y	Absent	21-JUL-23 07:56	NYTCL-8260HLW(14)
L2341893-02D	Plastic 120ml unpreserved	A	NA		4.7	Y	Absent		TS(7)
L2341893-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2341893-02F	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2341893-02G	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2341893-03A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L2341893-03B	Vial water preserved	A	NA		4.7	Y	Absent	21-JUL-23 07:56	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2341893-03C	Vial water preserved	A	NA		4.7	Y	Absent	21-JUL-23 07:56	NYTCL-8260HLW(14)
L2341893-03D	Plastic 120ml unpreserved	A	NA		4.7	Y	Absent		TS(7)
L2341893-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2341893-03F	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2341893-03G	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2341893-04A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L2341893-04B	Vial water preserved	A	NA		4.7	Y	Absent	21-JUL-23 07:56	NYTCL-8260HLW(14)
L2341893-04C	Vial water preserved	A	NA		4.7	Y	Absent	21-JUL-23 07:56	NYTCL-8260HLW(14)
L2341893-04D	Plastic 120ml unpreserved	A	NA		4.7	Y	Absent		TS(7)
L2341893-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2341893-04F	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2341893-04G	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2341893-05A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L2341893-05B	Vial water preserved	A	NA		4.7	Y	Absent	21-JUL-23 07:56	NYTCL-8260HLW(14)
L2341893-05C	Vial water preserved	A	NA		4.7	Y	Absent	21-JUL-23 07:56	NYTCL-8260HLW(14)
L2341893-05D	Plastic 120ml unpreserved	A	NA		4.7	Y	Absent		TS(7)
L2341893-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NA-TI(180),CD-TI(180),K-TI(180),CA-TI(180)
L2341893-05F	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2341893-05G	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341893
Report Date: 07/28/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)

*Values in parentheses indicate holding time in days

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341893
Project Number:	170754501	**Report Date:**	07/28/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341893
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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341893
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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341893
Project Number:	170754501	**Report Date:**	07/28/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

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Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page of

Date Rec'd in Lab: 7/21/23

ALPHA Job #: L2341893

Client Information
Client: Langan
Address: 360 W 31st Street 8th fl New York, NY 10001
Phone: 212 479 5400
Fax:
Email: jarmstrong@langan.com

Project Information
Project Name: Project Maximus
Project Location: 1255 Hempstead Turnpike, Uniondale NY
Project #: 170754501
(Use Project name as Project #) ☐
Project Manager: Jennifer Armstrong
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other

Billing Information
☑ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Please CC Kgioia@langan.com & datamanagement@langan.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 375 VOCs	SVOCs	Pest / Herb	TAL / Part 375 Metals	PCBs	Hex Chrom			Total Bottle	Sample Specific Comments
41893-01	~~SB18-07~~ GD SB18_22-24	7/20/23	10:30	S	AA	X	X	X	X	X	X				
02	SDDUP03_072023														
03	SB11_22-24		12:15												
04	SB14_18-20		16:00												
05	SB12_12-14		15:40												

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
GDeGennaro/Langan	7/20/23 @430		7/20/23 16:40
	7/20/23 1911		7/20 2100
	7/21 0230		7/21 0230
	7/21 0430		7/21/23 0430

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2341894
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Jennifer Armstrong
Phone:	(212) 479-5537
Project Name:	PROJECT MAXIMUS
Project Number:	170754501
Report Date:	07/28/23

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2341894-01	TMW16_072023	WATER	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/20/23 08:55	07/20/23
L2341894-02	TMW18_072023	WATER	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/20/23 12:00	07/20/23
L2341894-03	GWDUP02_072023	WATER	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/20/23 00:00	07/20/23

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341894
Project Number:	170754501	**Report Date:**	07/28/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341894
Project Number:	170754501	**Report Date:**	07/28/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The analysis of Herbicides was not performed at the client's request.

At the client's request, the analysis of Total Cyanide was performed.

Semivolatile Organics

The WG1808159-3 LCS recoveries, associated with L2341894-02, are below the acceptance criteria for benzidine (6%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Dissolved Metals

The WG1806079-1 Method Blank, associated with L2341894-01 through -03, has a concentration above the reporting limit for manganese. Since the associated sample concentrations are greater than 10x the blank concentration, no corrective action is required.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 07/28/23

ORGANICS

VOLATILES

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-01 Date Collected: 07/20/23 08:55

Client ID: TMW16_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 07/24/23 11:21

Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-01 Date Collected: 07/20/23 08:55

Client ID: TMW16_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.0	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-01 Date Collected: 07/20/23 08:55

Client ID: TMW16_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-02 Date Collected: 07/20/23 12:00
Client ID: TMW18_072023 Date Received: 07/20/23
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/24/23 11:44
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	1.9	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-02 Date Collected: 07/20/23 12:00

Client ID: TMW18_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.4	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-02 Date Collected: 07/20/23 12:00

Client ID: TMW18_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	107		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-03 Date Collected: 07/20/23 00:00

Client ID: GWDUP02_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 07/24/23 12:06

Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-03 Date Collected: 07/20/23 00:00

Client ID: GWDUP02_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.0	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-03 Date Collected: 07/20/23 00:00

Client ID: GWDUP02_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	109		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/24/23 08:03
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1807595-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/24/23 08:03
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1807595-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/24/23 08:03
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1807595-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	107		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341894

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1807595-3 WG1807595-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	100		99		70-130	1		20
Dibromochloromethane	98		90		63-130	9		20
1,1,2-Trichloroethane	94		89		70-130	5		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	110		100		75-130	10		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	96		95		70-130	1		20
1,1,1-Trichloroethane	110		100		67-130	10		20
Bromodichloromethane	100		99		67-130	1		20
trans-1,3-Dichloropropene	96		89		70-130	8		20
cis-1,3-Dichloropropene	100		95		70-130	5		20
1,1-Dichloropropene	110		100		70-130	10		20
Bromoform	93		90		54-136	3		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	110		99		70-130	11		20
Toluene	110		98		70-130	12		20
Ethylbenzene	110		99		70-130	11		20
Chloromethane	110		100		64-130	10		20
Bromomethane	84		85		39-139	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341894

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1807595-3 WG1807595-4								
Vinyl chloride	110		100		55-140	10		20
Chloroethane	110		100		55-138	10		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	110		100		70-130	10		20
Trichloroethene	99		92		70-130	7		20
1,2-Dichlorobenzene	100		99		70-130	1		20
1,3-Dichlorobenzene	110		100		70-130	10		20
1,4-Dichlorobenzene	110		100		70-130	10		20
Methyl tert butyl ether	88		88		63-130	0		20
p/m-Xylene	110		100		70-130	10		20
o-Xylene	105		100		70-130	5		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Dibromomethane	95		97		70-130	2		20
1,2,3-Trichloropropane	89		88		64-130	1		20
Acrylonitrile	91		95		70-130	4		20
Styrene	105		100		70-130	5		20
Dichlorodifluoromethane	110		100		36-147	10		20
Acetone	90		91		58-148	1		20
Carbon disulfide	110		100		51-130	10		20
2-Butanone	81		84		63-138	4		20
Vinyl acetate	130		130		70-130	0		20
4-Methyl-2-pentanone	78		86		59-130	10		20
2-Hexanone	75		80		57-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341894

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1807595-3 WG1807595-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	120		110		63-133	9		20
1,2-Dibromoethane	94		91		70-130	3		20
1,3-Dichloropropane	95		89		70-130	7		20
1,1,1,2-Tetrachloroethane	100		94		64-130	6		20
Bromobenzene	110		100		70-130	10		20
n-Butylbenzene	110		99		53-136	11		20
sec-Butylbenzene	110		100		70-130	10		20
tert-Butylbenzene	110		99		70-130	11		20
o-Chlorotoluene	120		110		70-130	9		20
p-Chlorotoluene	110		100		70-130	10		20
1,2-Dibromo-3-chloropropane	84		88		41-144	5		20
Hexachlorobutadiene	120		100		63-130	18		20
Isopropylbenzene	110		100		70-130	10		20
p-Isopropyltoluene	110		98		70-130	12		20
Naphthalene	93		92		70-130	1		20
n-Propylbenzene	110		99		69-130	11		20
1,2,3-Trichlorobenzene	110		100		70-130	10		20
1,2,4-Trichlorobenzene	110		100		70-130	10		20
1,3,5-Trimethylbenzene	110		95		64-130	15		20
1,2,4-Trimethylbenzene	100		95		70-130	5		20
1,4-Dioxane	84		84		56-162	0		20
p-Diethylbenzene	110		97		70-130	13		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341894

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1807595-3 WG1807595-4								
p-Ethyltoluene	110		99		70-130	11		20
1,2,4,5-Tetramethylbenzene	110		98		70-130	12		20
Ethyl ether	90		93		59-134	3		20
trans-1,4-Dichloro-2-butene	91		92		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		97		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	98		104		70-130

SEMIVOLATILES

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-01
Client ID: TMW16_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 08:55
Date Received: 07/20/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 07/26/23 01:09
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/25/23 08:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-01 Date Collected: 07/20/23 08:55

Client ID: TMW16_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	67		41-149

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-01
Client ID: TMW16_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 08:55
Date Received: 07/20/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 07/26/23 15:26
Analyst: MG

Extraction Method: EPA 3510C
Extraction Date: 07/25/23 08:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.05	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.07	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	1.9		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.08	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.04	J	ug/l	0.10	0.01	1
Anthracene	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.06	J	ug/l	0.10	0.01	1
Phenanthrene	0.10	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.11		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.21		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	0.01	J	ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-01 Date Collected: 07/20/23 08:55

Client ID: TMW16_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	113		10-120
4-Terphenyl-d14	65		41-149

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-02
Client ID: TMW18_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 12:00
Date Received: 07/20/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 07/27/23 09:42
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/26/23 18:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-02 Date Collected: 07/20/23 12:00

Client ID: TMW18_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		21-120
Phenol-d6	60		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	70		41-149

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-02
Client ID: TMW18_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 12:00
Date Received: 07/20/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 07/27/23 12:51
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/26/23 18:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-02 Date Collected: 07/20/23 12:00

Client ID: TMW18_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	96		10-120
4-Terphenyl-d14	79		41-149

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-03
Client ID: GWDUP02_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 00:00
Date Received: 07/20/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 07/26/23 00:46
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/25/23 08:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-03 Date Collected: 07/20/23 00:00

Client ID: GWDUP02_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		21-120
Phenol-d6	64		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	99		10-120
4-Terphenyl-d14	68		41-149

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-03
Client ID: GWDUP02_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 00:00
Date Received: 07/20/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 07/26/23 15:42
Analyst: MG

Extraction Method: EPA 3510C
Extraction Date: 07/25/23 08:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.04	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	1.4		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.06	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.06	J	ug/l	0.10	0.01	1
Anthracene	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.03	J	ug/l	0.10	0.01	1
Phenanthrene	0.06	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.15		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-03 Date Collected: 07/20/23 00:00

Client ID: GWDUP02_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		21-120
Phenol-d6	69		10-120
Nitrobenzene-d5	114		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	**135**	Q	10-120
4-Terphenyl-d14	71		41-149

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/25/23 21:01
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/24/23 23:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1807149-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/25/23 21:01
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/24/23 23:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1807149-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/25/23 21:01
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/24/23 23:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1807149-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	106		10-120
4-Terphenyl-d14	77		41-149

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 07/26/23 14:02
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 07/24/23 23:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01,03 Batch: WG1807150-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	0.04	J	ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	0.03	J	ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	0.09	J	ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	0.01	J	ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 07/26/23 14:02
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 07/24/23 23:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01,03 Batch: WG1807150-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	54		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	46		41-149

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/27/23 08:07
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/26/23 18:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1808159-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/27/23 08:07
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/26/23 18:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1808159-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/27/23 08:07
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/26/23 18:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1808159-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	78		41-149

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 07/27/23 10:37
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/26/23 18:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02 Batch: WG1808160-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 07/27/23 10:37
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/26/23 18:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02 Batch: WG1808160-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		21-120
Phenol-d6	60		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	94		15-120
2,4,6-Tribromophenol	115		10-120
4-Terphenyl-d14	97		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341894

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1807149-2 WG1807149-3								
Acenaphthene	73		80		37-111	9		30
1,2,4-Trichlorobenzene	75		77		39-98	3		30
Hexachlorobenzene	84		89		40-140	6		30
Bis(2-chloroethyl)ether	72		75		40-140	4		30
2-Chloronaphthalene	80		82		40-140	2		30
1,2-Dichlorobenzene	71		73		40-140	3		30
1,3-Dichlorobenzene	68		73		40-140	7		30
1,4-Dichlorobenzene	72		70		36-97	3		30
3,3'-Dichlorobenzidine	80		82		40-140	2		30
2,4-Dinitrotoluene	80		92		48-143	14		30
2,6-Dinitrotoluene	83		82		40-140	1		30
Fluoranthene	78		84		40-140	7		30
4-Chlorophenyl phenyl ether	77		83		40-140	8		30
4-Bromophenyl phenyl ether	82		91		40-140	10		30
Bis(2-chloroisopropyl)ether	64		62		40-140	3		30
Bis(2-chloroethoxy)methane	77		82		40-140	6		30
Hexachlorobutadiene	78		80		40-140	3		30
Hexachlorocyclopentadiene	72		72		40-140	0		30
Hexachloroethane	80		80		40-140	0		30
Isophorone	80		80		40-140	0		30
Naphthalene	73		80		40-140	9		30
Nitrobenzene	82		88		40-140	7		30
NDPA/DPA	74		88		40-140	17		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341894

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1807149-2 WG1807149-3								
n-Nitrosodi-n-propylamine	91		86		29-132	6		30
Bis(2-ethylhexyl)phthalate	102		121		40-140	17		30
Butyl benzyl phthalate	94		105		40-140	11		30
Di-n-butylphthalate	92		101		40-140	9		30
Di-n-octylphthalate	93		116		40-140	22		30
Diethyl phthalate	82		99		40-140	19		30
Dimethyl phthalate	85		90		40-140	6		30
Benzo(a)anthracene	78		89		40-140	13		30
Benzo(a)pyrene	82		92		40-140	11		30
Benzo(b)fluoranthene	79		89		40-140	12		30
Benzo(k)fluoranthene	78		84		40-140	7		30
Chrysene	84		87		40-140	4		30
Acenaphthylene	86		92		45-123	7		30
Anthracene	79		86		40-140	8		30
Benzo(ghi)perylene	79		91		40-140	14		30
Fluorene	74		84		40-140	13		30
Phenanthrene	78		82		40-140	5		30
Dibenzo(a,h)anthracene	77		86		40-140	11		30
Indeno(1,2,3-cd)pyrene	75		84		40-140	11		30
Pyrene	78		85		26-127	9		30
Biphenyl	74		72		40-140	3		30
4-Chloroaniline	80		96		40-140	18		30
2-Nitroaniline	88		90		52-143	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1807149-2 WG1807149-3								
3-Nitroaniline	83		94		25-145	12		30
4-Nitroaniline	80		94		51-143	16		30
Dibenzofuran	80		90		40-140	12		30
2-Methylnaphthalene	80		77		40-140	4		30
1,2,4,5-Tetrachlorobenzene	71		69		2-134	3		30
Acetophenone	72		74		39-129	3		30
2,4,6-Trichlorophenol	90		90		30-130	0		30
p-Chloro-m-cresol	95		**106**	Q	23-97	11		30
2-Chlorophenol	77		80		27-123	4		30
2,4-Dichlorophenol	94		94		30-130	0		30
2,4-Dimethylphenol	85		88		30-130	3		30
2-Nitrophenol	88		93		30-130	6		30
4-Nitrophenol	**86**	Q	**102**	Q	10-80	17		30
2,4-Dinitrophenol	89		75		20-130	17		30
4,6-Dinitro-o-cresol	99		99		20-164	0		30
Pentachlorophenol	91		101		9-103	10		30
Phenol	57		58		12-110	2		30
2-Methylphenol	78		79		30-130	1		30
3-Methylphenol/4-Methylphenol	90		91		30-130	1		30
2,4,5-Trichlorophenol	88		100		30-130	13		30
Benzoic Acid	92		64		10-164	**36**	Q	30
Benzyl Alcohol	80		84		26-116	5		30
Carbazole	81		89		55-144	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1807149-2 WG1807149-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		73		21-120
Phenol-d6	57		61		10-120
Nitrobenzene-d5	83		76		23-120
2-Fluorobiphenyl	85		78		15-120
2,4,6-Tribromophenol	103		**125**	Q	10-120
4-Terphenyl-d14	74		78		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,03 Batch: WG1807150-2 WG1807150-3								
Acenaphthene	85		87		40-140	2		40
2-Chloronaphthalene	92		92		40-140	0		40
Fluoranthene	98		102		40-140	4		40
Hexachlorobutadiene	101		98		40-140	3		40
Naphthalene	80		81		40-140	1		40
Benzo(a)anthracene	104		113		40-140	8		40
Benzo(a)pyrene	109		115		40-140	5		40
Benzo(b)fluoranthene	105		108		40-140	3		40
Benzo(k)fluoranthene	103		108		40-140	5		40
Chrysene	95		101		40-140	6		40
Acenaphthylene	99		99		40-140	0		40
Anthracene	97		99		40-140	2		40
Benzo(ghi)perylene	96		106		40-140	10		40
Fluorene	91		95		40-140	4		40
Phenanthrene	86		88		40-140	2		40
Dibenzo(a,h)anthracene	95		103		40-140	8		40
Indeno(1,2,3-cd)pyrene	97		108		40-140	11		40
Pyrene	94		99		40-140	5		40
2-Methylnaphthalene	89		89		40-140	0		40
Pentachlorophenol	129		127		40-140	2		40
Hexachlorobenzene	105		107		40-140	2		40
Hexachloroethane	85		83		40-140	2		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341894

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,03 Batch: WG1807150-2 WG1807150-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	78		76		21-120
Phenol-d6	72		72		10-120
Nitrobenzene-d5	114		111		23-120
2-Fluorobiphenyl	91		92		15-120
2,4,6-Tribromophenol	**164**	Q	**169**	Q	10-120
4-Terphenyl-d14	78		81		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341894

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1808159-2 WG1808159-3								
Acenaphthene	70		79		37-111	12		30
1,2,4-Trichlorobenzene	65		74		39-98	13		30
Hexachlorobenzene	66		73		40-140	10		30
Bis(2-chloroethyl)ether	67		76		40-140	13		30
2-Chloronaphthalene	68		76		40-140	11		30
1,2-Dichlorobenzene	66		75		40-140	13		30
1,3-Dichlorobenzene	65		75		40-140	14		30
1,4-Dichlorobenzene	67		74		36-97	10		30
3,3'-Dichlorobenzidine	54		60		40-140	11		30
2,4-Dinitrotoluene	70		74		48-143	6		30
2,6-Dinitrotoluene	63		70		40-140	11		30
Fluoranthene	74		80		40-140	8		30
4-Chlorophenyl phenyl ether	70		76		40-140	8		30
4-Bromophenyl phenyl ether	71		80		40-140	12		30
Bis(2-chloroisopropyl)ether	67		76		40-140	13		30
Bis(2-chloroethoxy)methane	67		74		40-140	10		30
Hexachlorobutadiene	69		81		40-140	16		30
Hexachlorocyclopentadiene	61		71		40-140	15		30
Hexachloroethane	69		77		40-140	11		30
Isophorone	66		74		40-140	11		30
Naphthalene	68		79		40-140	15		30
Nitrobenzene	68		76		40-140	11		30
NDPA/DPA	74		81		40-140	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1808159-2 WG1808159-3								
n-Nitrosodi-n-propylamine	67		77		29-132	14		30
Bis(2-ethylhexyl)phthalate	79		87		40-140	10		30
Butyl benzyl phthalate	71		75		40-140	5		30
Di-n-butylphthalate	78		85		40-140	9		30
Di-n-octylphthalate	75		82		40-140	9		30
Diethyl phthalate	73		80		40-140	9		30
Dimethyl phthalate	64		69		40-140	8		30
Benzo(a)anthracene	74		83		40-140	11		30
Benzo(a)pyrene	71		79		40-140	11		30
Benzo(b)fluoranthene	66		77		40-140	15		30
Benzo(k)fluoranthene	68		72		40-140	6		30
Chrysene	76		85		40-140	11		30
Acenaphthylene	68		76		45-123	11		30
Anthracene	77		86		40-140	11		30
Benzo(ghi)perylene	74		85		40-140	14		30
Fluorene	73		82		40-140	12		30
Phenanthrene	76		85		40-140	11		30
Dibenzo(a,h)anthracene	70		81		40-140	15		30
Indeno(1,2,3-cd)pyrene	69		85		40-140	21		30
Pyrene	73		79		26-127	8		30
Biphenyl	70		80		40-140	13		30
4-Chloroaniline	55		59		40-140	7		30
2-Nitroaniline	69		74		52-143	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1808159-2 WG1808159-3								
3-Nitroaniline	66		70		25-145	6		30
4-Nitroaniline	70		73		51-143	4		30
Dibenzofuran	75		84		40-140	11		30
2-Methylnaphthalene	70		81		40-140	15		30
1,2,4,5-Tetrachlorobenzene	70		80		2-134	13		30
Acetophenone	73		80		39-129	9		30
2,4,6-Trichlorophenol	71		78		30-130	9		30
p-Chloro-m-cresol	75		83		23-97	10		30
2-Chlorophenol	71		80		27-123	12		30
2,4-Dichlorophenol	74		82		30-130	10		30
2,4-Dimethylphenol	75		80		30-130	6		30
2-Nitrophenol	65		72		30-130	10		30
4-Nitrophenol	72		77		10-80	7		30
2,4-Dinitrophenol	60		62		20-130	3		30
4,6-Dinitro-o-cresol	68		71		20-164	4		30
Pentachlorophenol	70		76		9-103	8		30
Phenol	62		69		12-110	11		30
2-Methylphenol	72		78		30-130	8		30
3-Methylphenol/4-Methylphenol	77		81		30-130	5		30
2,4,5-Trichlorophenol	71		78		30-130	9		30
Benzoic Acid	29		27		10-164	7		30
Benzyl Alcohol	64		73		26-116	13		30
Carbazole	77		83		55-144	8		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1808159-2 WG1808159-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	64		75		21-120
Phenol-d6	56		65		10-120
Nitrobenzene-d5	68		78		23-120
2-Fluorobiphenyl	65		77		15-120
2,4,6-Tribromophenol	67		74		10-120
4-Terphenyl-d14	66		75		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02 Batch: WG1808160-2 WG1808160-3								
Acenaphthene	67		84		40-140	23		40
2-Chloronaphthalene	75		95		40-140	24		40
Fluoranthene	73		90		40-140	21		40
Hexachlorobutadiene	75		95		40-140	24		40
Naphthalene	66		84		40-140	24		40
Benzo(a)anthracene	72		93		40-140	25		40
Benzo(a)pyrene	79		94		40-140	17		40
Benzo(b)fluoranthene	74		91		40-140	21		40
Benzo(k)fluoranthene	82		99		40-140	19		40
Chrysene	71		88		40-140	21		40
Acenaphthylene	77		96		40-140	22		40
Anthracene	72		86		40-140	18		40
Benzo(ghi)perylene	70		84		40-140	18		40
Fluorene	72		90		40-140	22		40
Phenanthrene	68		83		40-140	20		40
Dibenzo(a,h)anthracene	70		85		40-140	19		40
Indeno(1,2,3-cd)pyrene	66		78		40-140	17		40
Pyrene	74		88		40-140	17		40
2-Methylnaphthalene	73		93		40-140	24		40
Pentachlorophenol	94		109		40-140	15		40
Hexachlorobenzene	100		118		40-140	17		40
Hexachloroethane	64		81		40-140	23		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02 Batch: WG1808160-2 WG1808160-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	59		77		21-120
Phenol-d6	53		70		10-120
Nitrobenzene-d5	74		96		23-120
2-Fluorobiphenyl	74		96		15-120
2,4,6-Tribromophenol	95		119		10-120
4-Terphenyl-d14	70		90		41-149

PCBS

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-01
Client ID: TMW16_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 08:55
Date Received: 07/20/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/26/23 18:42
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 07/25/23 14:50
Cleanup Method: EPA 3665A
Cleanup Date: 07/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-02
Client ID: TMW18_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 12:00
Date Received: 07/20/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/26/23 18:50
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 07/25/23 14:50
Cleanup Method: EPA 3665A
Cleanup Date: 07/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	45		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-03
Client ID: GWDUP02_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 00:00
Date Received: 07/20/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/26/23 18:59
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 07/25/23 14:50
Cleanup Method: EPA 3665A
Cleanup Date: 07/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/26/23 18:15
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 07/25/23 14:50
Cleanup Method: EPA 3665A
Cleanup Date: 07/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03 Batch: WG1807557-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	86		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1807557-2 WG1807557-3									
Aroclor 1016	46		47		40-140	3		50	A
Aroclor 1260	43		43		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		50		30-150	A
Decachlorobiphenyl	57		55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		46		30-150	B
Decachlorobiphenyl	60		59		30-150	B

PESTICIDES

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-01
Client ID: TMW16_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 08:55
Date Received: 07/20/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 07/27/23 10:55
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 07/25/23 14:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-01 Date Collected: 07/20/23 08:55

Client ID: TMW16_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**167**	Q	30-150	A
Decachlorobiphenyl	**218**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**157**	Q	30-150	B
Decachlorobiphenyl	**202**	Q	30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-02
Client ID: TMW18_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 12:00
Date Received: 07/20/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 07/27/23 11:07
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 07/25/23 14:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-02 Date Collected: 07/20/23 12:00

Client ID: TMW18_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**164**	Q	30-150	A
Decachlorobiphenyl	**199**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	148		30-150	B
Decachlorobiphenyl	**176**	Q	30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-03
Client ID: GWDUP02_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 00:00
Date Received: 07/20/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 07/27/23 11:18
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 07/25/23 14:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-03 Date Collected: 07/20/23 00:00

Client ID: GWDUP02_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**167**	Q	30-150	A
Decachlorobiphenyl	**235**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**155**	Q	30-150	B
Decachlorobiphenyl	**218**	Q	30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/25/23 13:19
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 07/24/23 20:21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1807119-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/25/23 13:19
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 07/24/23 20:21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1807119-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	73		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1807119-2 WG1807119-3									
Delta-BHC	72		85		30-150	16		20	A
Lindane	71		78		30-150	9		20	A
Alpha-BHC	76		85		30-150	11		20	A
Beta-BHC	78		89		30-150	14		20	A
Heptachlor	72		81		30-150	12		20	A
Aldrin	71		79		30-150	10		20	A
Heptachlor epoxide	70		75		30-150	7		20	A
Endrin	70		78		30-150	11		20	A
Endrin aldehyde	51		63		30-150	**22**	Q	20	A
Endrin ketone	73		79		30-150	9		20	A
Dieldrin	76		86		30-150	13		20	A
4,4'-DDE	70		78		30-150	12		20	A
4,4'-DDD	75		85		30-150	12		20	A
4,4'-DDT	79		92		30-150	15		20	A
Endosulfan I	70		77		30-150	9		20	A
Endosulfan II	72		82		30-150	13		20	A
Endosulfan sulfate	69		81		30-150	17		20	A
Methoxychlor	73		86		30-150	17		20	A
cis-Chlordane	73		80		30-150	10		20	A
trans-Chlordane	78		88		30-150	11		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341894

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1807119-2 WG1807119-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		80		30-150	A
Decachlorobiphenyl	81		95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		69		30-150	B
Decachlorobiphenyl	74		84		30-150	B

METALS

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-01 Date Collected: 07/20/23 08:55

Client ID: TMW16_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.186		mg/l	0.0100	0.00327	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Arsenic, Total	0.00018	J	mg/l	0.00050	0.00016	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Barium, Total	0.08445		mg/l	0.00050	0.00017	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Cadmium, Total	0.00007	J	mg/l	0.00020	0.00005	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Calcium, Total	29.7		mg/l	0.100	0.0394	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Chromium, Total	0.00066	J	mg/l	0.00100	0.00017	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Cobalt, Total	0.00326		mg/l	0.00050	0.00016	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Copper, Total	0.00139		mg/l	0.00100	0.00038	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Iron, Total	1.18		mg/l	0.0500	0.0191	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Magnesium, Total	8.71		mg/l	0.0700	0.0242	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Manganese, Total	0.3861		mg/l	0.00100	0.00044	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Mercury, Total	0.00012	J	mg/l	0.00020	0.00009	1	07/21/23 14:39	07/28/23 18:51	EPA 7470A	1,7470A	MJR
Nickel, Total	0.00758		mg/l	0.00200	0.00055	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Potassium, Total	3.10		mg/l	0.100	0.0309	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Sodium, Total	434.		mg/l	0.100	0.0293	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
Zinc, Total	0.00503	J	mg/l	0.01000	0.00341	1	07/21/23 15:36	07/27/23 10:35	EPA 3005A	1,6020B	SMV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		07/27/23 10:35	NA	107,-	

Project Name: PROJECT MAXIMUS
Lab Number: L2341894
Project Number: 170754501
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-01
Client ID: TMW16_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/20/23 08:55
Date Received: 07/20/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00564	J	mg/l	0.0100	0.00327	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Barium, Dissolved	0.09294		mg/l	0.00050	0.00017	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Cadmium, Dissolved	0.00007	J	mg/l	0.00020	0.00005	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	33.7		mg/l	0.100	0.0394	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.00020	J	mg/l	0.00100	0.00017	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.00388		mg/l	0.00050	0.00016	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Copper, Dissolved	0.00122		mg/l	0.00100	0.00038	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Iron, Dissolved	1.23		mg/l	0.0500	0.0191	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	9.84		mg/l	0.0700	0.0242	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	0.4100		mg/l	0.00100	0.00044	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	07/26/23 10:29	07/28/23 17:20	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	0.01041		mg/l	0.00200	0.00055	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	3.51		mg/l	0.100	0.0309	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	606.		mg/l	1.00	0.293	10	07/21/23 15:31	07/26/23 17:40	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	0.00468	J	mg/l	0.01000	0.00341	1	07/21/23 15:31	07/26/23 17:26	EPA 3005A	1,6020B	EJF

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-02 Date Collected: 07/20/23 12:00

Client ID: TMW18_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.188		mg/l	0.0100	0.00327	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Arsenic, Total	0.00028	J	mg/l	0.00050	0.00016	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Barium, Total	0.1687		mg/l	0.00050	0.00017	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Cadmium, Total	0.00007	J	mg/l	0.00020	0.00005	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Calcium, Total	26.9		mg/l	0.100	0.0394	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Chromium, Total	0.00110		mg/l	0.00100	0.00017	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Cobalt, Total	0.00804		mg/l	0.00050	0.00016	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Copper, Total	0.00172		mg/l	0.00100	0.00038	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Iron, Total	2.24		mg/l	0.0500	0.0191	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Magnesium, Total	6.01		mg/l	0.0700	0.0242	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Manganese, Total	0.6524		mg/l	0.00100	0.00044	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Mercury, Total	0.00014	J	mg/l	0.00020	0.00009	1	07/21/23 14:39	07/28/23 19:04	EPA 7470A	1,7470A	MJR
Nickel, Total	0.00837		mg/l	0.00200	0.00055	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Potassium, Total	2.67		mg/l	0.100	0.0309	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Sodium, Total	198.		mg/l	0.100	0.0293	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	07/21/23 15:36	07/27/23 10:39	EPA 3005A	1,6020B	SMV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		07/27/23 10:39	NA	107,-	

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-02 Date Collected: 07/20/23 12:00

Client ID: TMW18_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00469	J	mg/l	0.0100	0.00327	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.00017	J	mg/l	0.00050	0.00016	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Barium, Dissolved	0.1726		mg/l	0.00050	0.00017	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	30.2		mg/l	0.100	0.0394	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.00022	J	mg/l	0.00100	0.00017	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.00877		mg/l	0.00050	0.00016	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Copper, Dissolved	0.00138		mg/l	0.00100	0.00038	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Iron, Dissolved	2.27		mg/l	0.0500	0.0191	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	6.56		mg/l	0.0700	0.0242	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	0.7188		mg/l	0.00100	0.00044	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	07/26/23 10:29	07/28/23 17:36	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	0.00879		mg/l	0.00200	0.00055	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	3.07		mg/l	0.100	0.0309	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	232.		mg/l	0.100	0.0293	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	07/21/23 15:31	07/26/23 17:30	EPA 3005A	1,6020B	EJF

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-03 Date Collected: 07/20/23 00:00

Client ID: GWDUP02_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.153		mg/l	0.0100	0.00327	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Arsenic, Total	0.00020	J	mg/l	0.00050	0.00016	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Barium, Total	0.08532		mg/l	0.00050	0.00017	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Cadmium, Total	0.00006	J	mg/l	0.00020	0.00005	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Calcium, Total	32.1		mg/l	0.100	0.0394	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Chromium, Total	0.00056	J	mg/l	0.00100	0.00017	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Cobalt, Total	0.00308		mg/l	0.00050	0.00016	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Copper, Total	0.00131		mg/l	0.00100	0.00038	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Iron, Total	1.12		mg/l	0.0500	0.0191	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Magnesium, Total	9.44		mg/l	0.0700	0.0242	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Manganese, Total	0.4017		mg/l	0.00100	0.00044	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Mercury, Total	0.00019	J	mg/l	0.00020	0.00009	1	07/21/23 14:39	07/28/23 19:08	EPA 7470A	1,7470A	MJR
Nickel, Total	0.00756		mg/l	0.00200	0.00055	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Potassium, Total	3.28		mg/l	0.100	0.0309	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Sodium, Total	426.		mg/l	1.00	0.293	10	07/21/23 15:36	07/27/23 15:19	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
Zinc, Total	0.00489	J	mg/l	0.01000	0.00341	1	07/21/23 15:36	07/27/23 10:44	EPA 3005A	1,6020B	SMV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		07/27/23 10:44	NA	107,-	

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-03 Date Collected: 07/20/23 00:00

Client ID: GWDUP02_072023 Date Received: 07/20/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00360	J	mg/l	0.0100	0.00327	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Barium, Dissolved	0.09037		mg/l	0.00050	0.00017	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Cadmium, Dissolved	0.00006	J	mg/l	0.00020	0.00005	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	33.1		mg/l	0.100	0.0394	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.00018	J	mg/l	0.00100	0.00017	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.00359		mg/l	0.00050	0.00016	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Copper, Dissolved	0.00163		mg/l	0.00100	0.00038	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Iron, Dissolved	1.14		mg/l	0.0500	0.0191	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	10.2		mg/l	0.0700	0.0242	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	0.4262		mg/l	0.00100	0.00044	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	07/26/23 10:29	07/28/23 17:39	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	0.00924		mg/l	0.00200	0.00055	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	3.56		mg/l	0.100	0.0309	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	543.		mg/l	1.00	0.293	10	07/21/23 15:31	07/26/23 17:45	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	0.00495	J	mg/l	0.01000	0.00341	1	07/21/23 15:31	07/26/23 17:35	EPA 3005A	1,6020B	EJF

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1806079-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Manganese, Dissolved	0.00141		mg/l	0.00100	0.00044	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Sodium, Dissolved	ND		mg/l	0.100	0.0293	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	07/21/23 15:31	07/26/23 06:50	1,6020B	EJF

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1806081-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	07/26/23 10:29	07/28/23 11:28	1,7470A	MJR

Project Name: PROJECT MAXIMUS **Lab Number:** L2341894

Project Number: 170754501 **Report Date:** 07/28/23

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1806144-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Barium, Total	ND		mg/l	0.00050	0.00017	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Calcium, Total	ND		mg/l	0.100	0.0394	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Copper, Total	ND		mg/l	0.00100	0.00038	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Iron, Total	ND		mg/l	0.0500	0.0191	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Manganese, Total	ND		mg/l	0.00100	0.00044	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Nickel, Total	ND		mg/l	0.00200	0.00055	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Potassium, Total	ND		mg/l	0.100	0.0309	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Sodium, Total	ND		mg/l	0.100	0.0293	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	07/21/23 15:36	07/27/23 10:08	1,6020B	SMV

Prep Information

Digestion Method: EPA 3005A

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1806157-1										
Mercury, Total	0.00012	J	mg/l	0.00020	0.00009	1	07/21/23 14:39	07/28/23 18:44	1,7470A	MJR

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341894

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1806079-2								
Aluminum, Dissolved	107		-		80-120	-		
Antimony, Dissolved	99		-		80-120	-		
Arsenic, Dissolved	110		-		80-120	-		
Barium, Dissolved	100		-		80-120	-		
Beryllium, Dissolved	102		-		80-120	-		
Cadmium, Dissolved	105		-		80-120	-		
Calcium, Dissolved	108		-		80-120	-		
Chromium, Dissolved	105		-		80-120	-		
Cobalt, Dissolved	105		-		80-120	-		
Copper, Dissolved	107		-		80-120	-		
Iron, Dissolved	106		-		80-120	-		
Lead, Dissolved	104		-		80-120	-		
Magnesium, Dissolved	105		-		80-120	-		
Manganese, Dissolved	108		-		80-120	-		
Nickel, Dissolved	103		-		80-120	-		
Potassium, Dissolved	107		-		80-120	-		
Selenium, Dissolved	102		-		80-120	-		
Silver, Dissolved	104		-		80-120	-		
Sodium, Dissolved	106		-		80-120	-		
Thallium, Dissolved	105		-		80-120	-		
Vanadium, Dissolved	104		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341894

Report Date: 07/28/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1806079-2					
Zinc, Dissolved	105	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1806081-2					
Mercury, Dissolved	102	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341894

Report Date: 07/28/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1806144-2					
Aluminum, Total	103	-	80-120	-	
Antimony, Total	97	-	80-120	-	
Arsenic, Total	102	-	80-120	-	
Barium, Total	101	-	80-120	-	
Beryllium, Total	100	-	80-120	-	
Cadmium, Total	102	-	80-120	-	
Calcium, Total	96	-	80-120	-	
Chromium, Total	100	-	80-120	-	
Cobalt, Total	98	-	80-120	-	
Copper, Total	100	-	80-120	-	
Iron, Total	102	-	80-120	-	
Lead, Total	100	-	80-120	-	
Magnesium, Total	101	-	80-120	-	
Manganese, Total	101	-	80-120	-	
Nickel, Total	96	-	80-120	-	
Potassium, Total	103	-	80-120	-	
Selenium, Total	97	-	80-120	-	
Silver, Total	101	-	80-120	-	
Sodium, Total	96	-	80-120	-	
Thallium, Total	97	-	80-120	-	
Vanadium, Total	97	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341894

Report Date: 07/28/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1806144-2					
Zinc, Total	97	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1806157-2					
Mercury, Total	104	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1806079-3 QC Sample: L2341416-01 Client ID: MS Sample												
Aluminum, Dissolved	0.00520J	2	2.09	104		-	-		75-125	-		20
Antimony, Dissolved	ND	0.5	0.4759	95		-	-		75-125	-		20
Arsenic, Dissolved	0.00082	0.12	0.1310	108		-	-		75-125	-		20
Barium, Dissolved	0.07008	2	2.032	98		-	-		75-125	-		20
Beryllium, Dissolved	ND	0.05	0.05021	100		-	-		75-125	-		20
Cadmium, Dissolved	ND	0.053	0.05522	104		-	-		75-125	-		20
Calcium, Dissolved	44.2	10	53.8	96		-	-		75-125	-		20
Chromium, Dissolved	0.00027J	0.2	0.2059	103		-	-		75-125	-		20
Cobalt, Dissolved	0.00121	0.5	0.5126	102		-	-		75-125	-		20
Copper, Dissolved	0.00105	0.25	0.2649	106		-	-		75-125	-		20
Iron, Dissolved	0.0413J	1	1.07	107		-	-		75-125	-		20
Lead, Dissolved	ND	0.53	0.5477	103		-	-		75-125	-		20
Magnesium, Dissolved	5.64	10	15.5	99		-	-		75-125	-		20
Manganese, Dissolved	0.4603	0.5	0.9587	100		-	-		75-125	-		20
Nickel, Dissolved	0.00115J	0.5	0.5138	103		-	-		75-125	-		20
Potassium, Dissolved	12.5	10	22.2	97		-	-		75-125	-		20
Selenium, Dissolved	ND	0.12	0.133	111		-	-		75-125	-		20
Silver, Dissolved	ND	0.05	0.05111	102		-	-		75-125	-		20
Sodium, Dissolved	62.2	10	64.3	**21**	Q	-	-		75-125	-		20
Thallium, Dissolved	ND	0.12	0.1258	105		-	-		75-125	-		20
Vanadium, Dissolved	ND	0.5	0.5070	101		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1806079-3 QC Sample: L2341416-01 Client ID: MS Sample									
Zinc, Dissolved	ND	0.5	0.5194	104	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1806081-3 QC Sample: L2341894-01 Client ID: TMW16_072023									
Mercury, Dissolved	ND	0.005	0.00521	104	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1806144-3 QC Sample: L2341259-02 Client ID: MS Sample										
Aluminum, Total	0.005J	2	1.95	98		-	-	75-125	-	20
Antimony, Total	ND	0.5	0.4747	95		-	-	75-125	-	20
Arsenic, Total	ND	0.12	0.1193	99		-	-	75-125	-	20
Barium, Total	0.0150	2	1.971	98		-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.04989	100		-	-	75-125	-	20
Cadmium, Total	ND	0.053	0.05279	100		-	-	75-125	-	20
Calcium, Total	88.2	10	94.7	**65**	Q	-	-	75-125	-	20
Chromium, Total	ND	0.2	0.1904	95		-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.4657	93		-	-	75-125	-	20
Copper, Total	ND	0.25	0.2342	94		-	-	75-125	-	20
Iron, Total	ND	1	0.949	95		-	-	75-125	-	20
Lead, Total	ND	0.53	0.5302	100		-	-	75-125	-	20
Magnesium, Total	20.5	10	29.3	88		-	-	75-125	-	20
Manganese, Total	0.0024	0.5	0.4811	96		-	-	75-125	-	20
Nickel, Total	0.0010J	0.5	0.4517	90		-	-	75-125	-	20
Potassium, Total	4.93	10	14.9	100		-	-	75-125	-	20
Selenium, Total	ND	0.12	0.115	96		-	-	75-125	-	20
Silver, Total	ND	0.05	0.04924	98		-	-	75-125	-	20
Sodium, Total	25.1	10	31.6	**65**	Q	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.1170	98		-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.4633	93		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1806144-3 QC Sample: L2341259-02 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.4579	92	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1806157-3 QC Sample: L2341894-01 Client ID: TMW16_072023									
Mercury, Total	0.00012J	0.005	0.00486	97	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1806079-4 QC Sample: L2341416-01 Client ID: DUP Sample						
Aluminum, Dissolved	0.00520J	0.00517J	mg/l	NC		20
Antimony, Dissolved	ND	ND	mg/l	NC		20
Arsenic, Dissolved	0.00082	0.00084	mg/l	2		20
Barium, Dissolved	0.07008	0.06640	mg/l	5		20
Beryllium, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Calcium, Dissolved	44.2	42.5	mg/l	4		20
Chromium, Dissolved	0.00027J	0.00025J	mg/l	NC		20
Cobalt, Dissolved	0.00121	0.00118	mg/l	3		20
Copper, Dissolved	0.00105	0.00131	mg/l	**22**	Q	20
Iron, Dissolved	0.0413J	0.0380J	mg/l	NC		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Magnesium, Dissolved	5.64	5.36	mg/l	5		20
Nickel, Dissolved	0.00115J	0.00096J	mg/l	NC		20
Potassium, Dissolved	12.5	11.8	mg/l	6		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Sodium, Dissolved	62.2	59.8	mg/l	4		20
Thallium, Dissolved	ND	0.00040J	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1806079-4 QC Sample: L2341416-01 Client ID: DUP Sample					
Vanadium, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1806081-4 QC Sample: L2341894-01 Client ID: TMW16_072023					
Mercury, Dissolved	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1806144-4 QC Sample: L2341259-02 Client ID: DUP Sample					
Antimony, Total	ND	ND	mg/l	NC	20
Thallium, Total	ND	0.00023J	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1806157-4 QC Sample: L2341894-01 Client ID: TMW16_072023					
Mercury, Total	0.00012J	ND	mg/l	NC	20

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2341894
Report Date: 07/28/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1806079-6 QC Sample: L2341416-01 Client ID: DUP Sample						
Barium, Dissolved	0.07008	0.06766	mg/l	3		20
Calcium, Dissolved	44.2	41.8	mg/l	5		20
Magnesium, Dissolved	5.64	5.22	mg/l	7		20
Potassium, Dissolved	12.5	11.8	mg/l	6		20
Sodium, Dissolved	62.2	56.3	mg/l	9		20

INORGANICS
&
MISCELLANEOUS

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-01
Client ID: TMW16_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/20/23 08:55
Date Received: 07/20/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	07/27/23 02:25	07/27/23 14:17	1,9010C/9012B	JER
Chromium, Hexavalent	0.003	J	mg/l	0.010	0.003	1	07/21/23 08:30	07/21/23 08:54	1,7196A	KEP

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-02
Client ID: TMW18_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/20/23 12:00
Date Received: 07/20/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.005		mg/l	0.005	0.001	1	07/27/23 02:25	07/27/23 14:20	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	07/21/23 08:30	07/21/23 08:54	1,7196A	KEP

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

SAMPLE RESULTS

Lab ID: L2341894-03
Client ID: GWDUP02_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/20/23 00:00
Date Received: 07/20/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	07/27/23 02:25	07/27/23 14:23	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	07/21/23 08:30	07/21/23 09:09	1,7196A	KEP

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341894
Report Date: 07/28/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1805987-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	07/21/23 08:30	07/21/23 08:53	1,7196A	KEP
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1808223-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	07/27/23 02:25	07/27/23 13:58	1,9010C/9012B	JER

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341894

Report Date: 07/28/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1805987-2								
Chromium, Hexavalent	96		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1808223-2 WG1808223-3								
Cyanide, Total	95		89		85-115	7		20

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1805987-4 QC Sample: L2341894-03 Client ID: GWDUP02_072023												
Chromium, Hexavalent	ND	0.1	0.096	96		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1808223-4 WG1808223-5 QC Sample: L2341894-01 Client ID: TMW16_072023												
Cyanide, Total	ND	0.2	0.200	100		0.184	92		80-120	8		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1805987-3 QC Sample: L2341894-01 Client ID: TMW16_072023						
Chromium, Hexavalent	0.003J	0.005J	mg/l	NC		20

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2341894-01A	Vial HCl preserved	B	NA		3.7	Y	Absent		NYTCL-8260(14)
L2341894-01B	Vial HCl preserved	B	NA		3.7	Y	Absent		NYTCL-8260(14)
L2341894-01C	Vial HCl preserved	B	NA		3.7	Y	Absent		NYTCL-8260(14)
L2341894-01D	Plastic 250ml HNO3 preserved	B	<2	<2	3.7	Y	Absent		K-6020S(180),SE-6020S(180),V-6020S(180),CU-6020S(180),MN-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),BE-6020S(180),FE-6020S(180),CR-6020S(180),CA-6020S(180),NI-6020S(180),TL-6020S(180),PB-6020S(180),BA-6020S(180),NA-6020S(180),AS-6020S(180),SB-6020S(180),AG-6020S(180),AL-6020S(180),HG-S(28),CD-6020S(180)
L2341894-01E	Plastic 250ml NaOH preserved	B	>12	>12	3.7	Y	Absent		TCN-9010(14)
L2341894-01F	Plastic 500ml unpreserved	B	7	7	3.7	Y	Absent		HEXCR-7196(1)
L2341894-01G	Amber 250ml unpreserved	B	7	7	3.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2341894-01H	Amber 250ml unpreserved	B	7	7	3.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2341894-01I	Amber 250ml unpreserved	B	7	7	3.7	Y	Absent		-
L2341894-01J	Amber 250ml unpreserved	B	7	7	3.7	Y	Absent		-
L2341894-01K	Amber 120ml unpreserved	B	7	7	3.7	Y	Absent		NYTCL-8081(7)
L2341894-01L	Amber 120ml unpreserved	B	7	7	3.7	Y	Absent		NYTCL-8081(7)
L2341894-01M	Amber 120ml unpreserved	B	7	7	3.7	Y	Absent		NYTCL-8082-LVI(365)
L2341894-01N	Amber 120ml unpreserved	B	7	7	3.7	Y	Absent		NYTCL-8082-LVI(365)

*Values in parentheses indicate holding time in days

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2341894-01O	Plastic 250ml HNO3 preserved	B	<2	<2	3.7	Y	Absent		BA-6020T(180),TL-6020T(180),FE-6020T(180),SE-6020T(180),CA-6020T(180),CR-6020T(180),NI-6020T(180),K-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),CD-6020T(180),AL-6020T(180),MG-6020T(180),HG-T(28),AG-6020T(180),CO-6020T(180)
L2341894-02A	Vial HCl preserved	B	NA		3.7	Y	Absent		NYTCL-8260(14)
L2341894-02B	Vial HCl preserved	B	NA		3.7	Y	Absent		NYTCL-8260(14)
L2341894-02C	Vial HCl preserved	B	NA		3.7	Y	Absent		NYTCL-8260(14)
L2341894-02D	Plastic 250ml HNO3 preserved	B	<2	<2	3.7	Y	Absent		CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),ZN-6020S(180),CO-6020S(180),MG-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),NA-6020S(180),BA-6020S(180),TL-6020S(180),NI-6020S(180),PB-6020S(180),SB-6020S(180),AS-6020S(180),AG-6020S(180),CD-6020S(180),HG-S(28),AL-6020S(180)
L2341894-02E	Plastic 250ml NaOH preserved	B	>12	>12	3.7	Y	Absent		TCN-9010(14)
L2341894-02F	Plastic 500ml unpreserved	B	7	7	3.7	Y	Absent		HEXCR-7196(1)
L2341894-02G	Amber 250ml unpreserved	B	7	7	3.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2341894-02H	Amber 250ml unpreserved	B	7	7	3.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2341894-02K	Amber 120ml unpreserved	B	7	7	3.7	Y	Absent		NYTCL-8081(7)
L2341894-02L	Amber 120ml unpreserved	B	7	7	3.7	Y	Absent		NYTCL-8081(7)
L2341894-02M	Amber 120ml unpreserved	B	7	7	3.7	Y	Absent		NYTCL-8082-LVI(365)
L2341894-02N	Amber 120ml unpreserved	B	7	7	3.7	Y	Absent		NYTCL-8082-LVI(365)
L2341894-02O	Plastic 250ml HNO3 preserved	B	<2	<2	3.7	Y	Absent		FE-6020T(180),SE-6020T(180),TL-6020T(180),BA-6020T(180),K-6020T(180),CA-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),AL-6020T(180),CD-6020T(180),AG-6020T(180),MG-6020T(180),HG-T(28),CO-6020T(180)
L2341894-03A	Vial HCl preserved	B	NA		3.7	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341894
Report Date: 07/28/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2341894-03B	Vial HCl preserved	B	NA		3.7	Y	Absent		NYTCL-8260(14)
L2341894-03C	Vial HCl preserved	B	NA		3.7	Y	Absent		NYTCL-8260(14)
L2341894-03D	Plastic 250ml HNO3 preserved	B	<2	<2	3.7	Y	Absent		CU-6020S(180),SE-6020S(180),V-6020S(180),K-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),NI-6020S(180),BA-6020S(180),TL-6020S(180),NA-6020S(180),PB-6020S(180),AS-6020S(180),SB-6020S(180),AG-6020S(180),CD-6020S(180),HG-S(28),AL-6020S(180)
L2341894-03E	Plastic 250ml NaOH preserved	B	>12	>12	3.7	Y	Absent		TCN-9010(14)
L2341894-03F	Plastic 500ml unpreserved	B	7	7	3.7	Y	Absent		HEXCR-7196(1)
L2341894-03G	Amber 250ml unpreserved	B	7	7	3.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2341894-03H	Amber 250ml unpreserved	B	7	7	3.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2341894-03K	Amber 120ml unpreserved	B	7	7	3.7	Y	Absent		NYTCL-8081(7)
L2341894-03L	Amber 120ml unpreserved	B	7	7	3.7	Y	Absent		NYTCL-8081(7)
L2341894-03M	Amber 120ml unpreserved	B	7	7	3.7	Y	Absent		NYTCL-8082-LVI(365)
L2341894-03N	Amber 120ml unpreserved	B	7	7	3.7	Y	Absent		NYTCL-8082-LVI(365)
L2341894-03O	Plastic 250ml HNO3 preserved	B	<2	<2	3.7	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CA-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),MG-6020T(180),AG-6020T(180),HG-T(28),CD-6020T(180),AL-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341894
Project Number:	170754501	**Report Date:**	07/28/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341894
Project Number:	170754501	**Report Date:**	07/28/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341894
Project Number:	170754501	**Report Date:**	07/28/23

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341894
Project Number:	170754501	**Report Date:**	07/28/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab 7/21/23

ALPHA Job # L2341894

Client Information

Client: Langan
Address: 360 W 31st Street, 8th Floor
New York, NY 10001
Phone: (212) 479-5400
Fax:
Email: jarmstrong@langan.com

Project Information

Project Name: Project Maximus
Project Location: 1255 Hempstead Tpke, Uniondale, NY
Project #: 170754501
(Use Project name as Project #) ☐
Project Manager: Jennifer Armstrong
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☑ Same as Client Info
PO # 170754501

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please CC kgioia@langan.com and datamanagement@langan.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 375/TCL VOCs	SVOCs	pesticides/herbicides	TAL/Part 375 metals	(incl. hex and tri chrom)	Total and Dissolved	PCBs	Total Bottle	Sample Specific Comments
41894-01	TMW16-072023	7/20/23	855	GW	GD	X	X	X	X	X	X	X		
02	TMW18-072023	"	1200	GW	"	X	X	X	X	X	X	X		
03	GWDUP02-072023	"	—	GW	"	X	X	X	X	X	X	X		
				GW										
				GW										
				GW										
				GW										
				GW										
				GW										

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
Gabriella DeGennaro/Langan	7/20/23 430		7/20/23 1630
	7/20/23 1915		7/20 2100
	7/21 0230		7/20 0230
	7/21 0430		7/21/23 0430

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2341895
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Jennifer Armstrong
Phone:	(212) 479-5537
Project Name:	PROJECT MAXIMUS
Project Number:	170754501
Report Date:	07/27/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110) , NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341895
Report Date: 07/27/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2341895-01	SV11_072023	SOIL_VAPOR	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/20/23 15:05	07/20/23
L2341895-02	SV12_072023	SOIL_VAPOR	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/20/23 15:31	07/20/23
L2341895-03	SV15_072023	SOIL_VAPOR	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/20/23 15:25	07/20/23
L2341895-04	SV17_072023	SOIL_VAPOR	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/20/23 16:40	07/20/23
L2341895-05	SV18_072023	SOIL_VAPOR	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/20/23 15:11	07/20/23
L2341895-06	AA02_072023	AIR	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/20/23 15:12	07/20/23
L2341895-07	UNUSED CAN #3091	SOIL_VAPOR	1255 HEMPSTEAD TPKE, UNIONDALE, NY		07/20/23

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341895
Project Number:	170754501	**Report Date:**	07/27/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341895
Project Number:	170754501	**Report Date:**	07/27/23

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on July 19, 2023. The canister certification results are provided as an addendum.

L2341895-01: required a dilution greater than 4x; based on direction from the client the New York Decision Matrix Compounds have been reported by TO15-SIM for these samples.

L2341895-01D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2341895-05D: Prior to sample analysis, the canisters were pressurized with UHP Nitrogen in order to perform a screen analysis. The pressurization resulted in a dilution of the samples. The reporting limits have been elevated accordingly.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Jennifer Jerome

Title: Technical Director/Representative Date: 07/27/23

AIR

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

SAMPLE RESULTS

Lab ID: L2341895-01 D
Client ID: SV11_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 15:05
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/26/23 18:07
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	1.00	--	ND	4.94	--		5
Chloromethane	5.74	1.00	--	11.9	2.07	--		5
Freon-114	ND	1.00	--	ND	6.99	--		5
1,3-Butadiene	4.30	1.00	--	9.51	2.21	--		5
Bromomethane	ND	1.00	--	ND	3.88	--		5
Chloroethane	ND	1.00	--	ND	2.64	--		5
Ethanol	2390	25.0	--	4500	47.1	--		5
Vinyl bromide	ND	1.00	--	ND	4.37	--		5
Acetone	1070	5.00	--	2540	11.9	--		5
Trichlorofluoromethane	1.44	1.00	--	8.09	5.62	--		5
Isopropanol	122	2.50	--	300	6.15	--		5
Tertiary butyl Alcohol	22.7	2.50	--	68.8	7.58	--		5
Methylene chloride	ND	2.50	--	ND	8.69	--		5
3-Chloropropene	ND	1.00	--	ND	3.13	--		5
Carbon disulfide	ND	1.00	--	ND	3.11	--		5
Freon-113	ND	1.00	--	ND	7.66	--		5
trans-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5
1,1-Dichloroethane	ND	1.00	--	ND	4.05	--		5
Methyl tert butyl ether	ND	1.00	--	ND	3.61	--		5
2-Butanone	37.1	2.50	--	109	7.37	--		5
Ethyl Acetate	2.60	2.50	--	9.37	9.01	--		5
Chloroform	ND	1.00	--	ND	4.88	--		5
Tetrahydrofuran	4.60	2.50	--	13.6	7.37	--		5

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

SAMPLE RESULTS

Lab ID: L2341895-01 D
Client ID: SV11_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 15:05
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	1.00	--	ND	4.05	--		5
n-Hexane	3.53	1.00	--	12.4	3.52	--		5
Benzene	2.12	1.00	--	6.77	3.19	--		5
Cyclohexane	1.69	1.00	--	5.82	3.44	--		5
1,2-Dichloropropane	ND	1.00	--	ND	4.62	--		5
Bromodichloromethane	ND	1.00	--	ND	6.70	--		5
1,4-Dioxane	ND	1.00	--	ND	3.60	--		5
2,2,4-Trimethylpentane	1.52	1.00	--	7.10	4.67	--		5
Heptane	2.77	1.00	--	11.4	4.10	--		5
cis-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
4-Methyl-2-pentanone	ND	2.50	--	ND	10.2	--		5
Xylenes, Total	37.5	1.00	--	163	4.34	--		5
trans-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
1,1,2-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Toluene	34.0	1.00	--	128	3.77	--		5
2-Hexanone	1.54	1.00	--	6.31	4.10	--		5
Dibromochloromethane	ND	1.00	--	ND	8.52	--		5
1,2-Dibromoethane	ND	1.00	--	ND	7.69	--		5
Chlorobenzene	ND	1.00	--	ND	4.61	--		5
Ethylbenzene	7.02	1.00	--	30.5	4.34	--		5
p/m-Xylene	27.5	2.00	--	119	8.69	--		5
Bromoform	ND	1.00	--	ND	10.3	--		5
Styrene	1.14	1.00	--	4.85	4.26	--		5
1,1,2,2-Tetrachloroethane	ND	1.00	--	ND	6.87	--		5
o-Xylene	10.0	1.00	--	43.4	4.34	--		5
4-Ethyltoluene	1.65	1.00	--	8.11	4.92	--		5

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

SAMPLE RESULTS

Lab ID: L2341895-01 D
Client ID: SV11_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 15:05
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	1.58	1.00	--	7.77	4.92	--		5
1,2,4-Trimethylbenzene	6.56	1.00	--	32.2	4.92	--		5
Benzyl chloride	ND	1.00	--	ND	5.18	--		5
1,3-Dichlorobenzene	9.42	1.00	--	56.6	6.01	--		5
1,4-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2,4-Trichlorobenzene	ND	1.00	--	ND	7.42	--		5
Hexachlorobutadiene	ND	1.00	--	ND	10.7	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	97		60-140

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

SAMPLE RESULTS

Lab ID: L2341895-01 D
Client ID: SV11_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 15:05
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/27/23 08:23
Analyst: APR

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	0.205	0.100	--	0.524	0.256	--		5
1,1-Dichloroethene	ND	0.100	--	ND	0.396	--		5
cis-1,2-Dichloroethene	ND	0.100	--	ND	0.396	--		5
1,1,1-Trichloroethane	ND	0.100	--	ND	0.546	--		5
Carbon tetrachloride	ND	0.100	--	ND	0.629	--		5
Trichloroethene	ND	0.100	--	ND	0.537	--		5
Tetrachloroethene	0.240	0.100	--	1.63	0.678	--		5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	94		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	95		60-140

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

SAMPLE RESULTS

Lab ID: L2341895-02
Client ID: SV12_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 15:31
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/26/23 18:46
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.608	0.200	--	3.01	0.989	--		1
Chloromethane	0.208	0.200	--	0.430	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	6.36	0.200	--	14.1	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	6.25	5.00	--	11.8	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	431	1.00	--	1020	2.38	--		1
Trichlorofluoromethane	1.49	0.200	--	8.37	1.12	--		1
Isopropanol	1.78	0.500	--	4.38	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	2.01	0.500	--	6.09	1.52	--		1
Methylene chloride	5.97	0.500	--	20.7	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	1.21	0.200	--	3.77	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	14.6	0.500	--	43.1	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

SAMPLE RESULTS

Lab ID: L2341895-02
Client ID: SV12_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 15:31
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	5.79	0.200	--	20.4	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	3.82	0.200	--	12.2	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	1.52	0.200	--	5.23	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Xylenes, Total	49.0	0.200	--	213	0.869	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	0.570	0.200	--	3.06	1.07	--		1
2,2,4-Trimethylpentane	0.796	0.200	--	3.72	0.934	--		1
Heptane	5.34	0.200	--	21.9	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	29.8	0.200	--	112	0.754	--		1
2-Hexanone	3.35	0.200	--	13.7	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.938	0.200	--	6.36	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

SAMPLE RESULTS

Lab ID: L2341895-02
Client ID: SV12_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 15:31
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethylbenzene	9.28	0.200	--	40.3	0.869	--		1
p/m-Xylene	34.6	0.400	--	150	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.508	0.200	--	2.16	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	14.3	0.200	--	62.1	0.869	--		1
4-Ethyltoluene	2.64	0.200	--	13.0	0.983	--		1
1,3,5-Trimethylbenzene	3.12	0.200	--	15.3	0.983	--		1
1,2,4-Trimethylbenzene	11.7	0.200	--	57.5	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	102		60-140
chlorobenzene-d5	105		60-140

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

SAMPLE RESULTS

Lab ID: L2341895-03
Client ID: SV15_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 15:25
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/26/23 19:26
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.592	0.200	--	2.93	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	6.01	5.00	--	11.3	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	361	1.00	--	858	2.38	--		1
Trichlorofluoromethane	0.322	0.200	--	1.81	1.12	--		1
Isopropanol	2.02	0.500	--	4.97	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.14	0.500	--	3.46	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	14.8	0.500	--	43.6	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

SAMPLE RESULTS

Lab ID: L2341895-03
Client ID: SV15_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 15:25
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.668	0.200	--	2.35	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.364	0.200	--	1.16	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.532	0.200	--	1.83	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Xylenes, Total	21.7	0.200	--	94.3	0.869	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	0.251	0.200	--	1.17	0.934	--		1
Heptane	1.37	0.200	--	5.61	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	7.85	0.200	--	29.6	0.754	--		1
2-Hexanone	3.08	0.200	--	12.6	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	1.15	0.200	--	7.80	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

SAMPLE RESULTS

Lab ID: L2341895-03
Client ID: SV15_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 15:25
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethylbenzene	3.51	0.200	--	15.2	0.869	--		1
p/m-Xylene	15.2	0.400	--	66.0	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.261	0.200	--	1.11	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	6.45	0.200	--	28.0	0.869	--		1
4-Ethyltoluene	1.75	0.200	--	8.60	0.983	--		1
1,3,5-Trimethylbenzene	1.96	0.200	--	9.64	0.983	--		1
1,2,4-Trimethylbenzene	8.27	0.200	--	40.7	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	99		60-140

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

SAMPLE RESULTS

Lab ID: L2341895-04
Client ID: SV17_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 16:40
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/26/23 20:05
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.738	0.200	--	3.65	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	6.48	5.00	--	12.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	471	1.00	--	1120	2.38	--		1
Trichlorofluoromethane	0.376	0.200	--	2.11	1.12	--		1
Isopropanol	1.79	0.500	--	4.40	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.87	0.500	--	5.67	1.52	--		1
Methylene chloride	0.641	0.500	--	2.23	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.340	0.200	--	1.06	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	11.4	0.500	--	33.6	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

SAMPLE RESULTS

Lab ID: L2341895-04
Client ID: SV17_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 16:40
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	1.20	0.500	--	3.54	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	2.24	0.200	--	7.89	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	1.53	0.200	--	4.89	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	1.34	0.200	--	4.61	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
Xylenes, Total	43.8	0.200	--	190	0.869	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	0.607	0.200	--	2.84	0.934	--		1
Heptane	3.38	0.200	--	13.9	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	24.3	0.200	--	91.6	0.754	--		1
2-Hexanone	2.28	0.200	--	9.34	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.807	0.200	--	5.47	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

SAMPLE RESULTS

Lab ID: L2341895-04
Client ID: SV17_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 16:40
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethylbenzene	7.90	0.200	--	34.3	0.869	--		1
p/m-Xylene	31.2	0.400	--	136	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.502	0.200	--	2.14	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	12.6	0.200	--	54.7	0.869	--		1
4-Ethyltoluene	3.32	0.200	--	16.3	0.983	--		1
1,3,5-Trimethylbenzene	2.94	0.200	--	14.5	0.983	--		1
1,2,4-Trimethylbenzene	11.6	0.200	--	57.0	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	97		60-140

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

SAMPLE RESULTS

Lab ID: L2341895-05 D
Client ID: SV18_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 15:11
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/26/23 20:44
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.449	0.215	--	2.22	1.06	--		1.076
Chloromethane	ND	0.215	--	ND	0.444	--		1.076
Freon-114	ND	0.215	--	ND	1.50	--		1.076
Vinyl chloride	ND	0.215	--	ND	0.550	--		1.076
1,3-Butadiene	2.01	0.215	--	4.45	0.476	--		1.076
Bromomethane	ND	0.215	--	ND	0.835	--		1.076
Chloroethane	ND	0.215	--	ND	0.567	--		1.076
Ethanol	5.45	5.38	--	10.3	10.1	--		1.076
Vinyl bromide	ND	0.215	--	ND	0.940	--		1.076
Acetone	399	1.08	--	948	2.57	--		1.076
Trichlorofluoromethane	0.552	0.215	--	3.10	1.21	--		1.076
Isopropanol	1.69	0.538	--	4.15	1.32	--		1.076
1,1-Dichloroethene	ND	0.215	--	ND	0.852	--		1.076
Tertiary butyl Alcohol	1.60	0.538	--	4.85	1.63	--		1.076
Methylene chloride	0.749	0.538	--	2.60	1.87	--		1.076
3-Chloropropene	ND	0.215	--	ND	0.673	--		1.076
Carbon disulfide	1.64	0.215	--	5.11	0.670	--		1.076
Freon-113	ND	0.215	--	ND	1.65	--		1.076
trans-1,2-Dichloroethene	ND	0.215	--	ND	0.852	--		1.076
1,1-Dichloroethane	ND	0.215	--	ND	0.870	--		1.076
Methyl tert butyl ether	ND	0.215	--	ND	0.775	--		1.076
2-Butanone	17.5	0.538	--	51.6	1.59	--		1.076
cis-1,2-Dichloroethene	ND	0.215	--	ND	0.852	--		1.076

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

SAMPLE RESULTS

Lab ID: L2341895-05 D
Client ID: SV18_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 15:11
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.538	--	ND	1.94	--		1.076
Chloroform	ND	0.215	--	ND	1.05	--		1.076
Tetrahydrofuran	ND	0.538	--	ND	1.59	--		1.076
1,2-Dichloroethane	ND	0.215	--	ND	0.870	--		1.076
n-Hexane	2.72	0.215	--	9.59	0.758	--		1.076
1,1,1-Trichloroethane	ND	0.215	--	ND	1.17	--		1.076
Benzene	1.91	0.215	--	6.10	0.687	--		1.076
Carbon tetrachloride	ND	0.215	--	ND	1.35	--		1.076
Cyclohexane	1.13	0.215	--	3.89	0.740	--		1.076
1,2-Dichloropropane	ND	0.215	--	ND	0.994	--		1.076
Bromodichloromethane	ND	0.215	--	ND	1.44	--		1.076
Xylenes, Total	51.7	0.215	--	225	0.934	--		1.076
1,4-Dioxane	ND	0.215	--	ND	0.775	--		1.076
Trichloroethene	ND	0.215	--	ND	1.16	--		1.076
2,2,4-Trimethylpentane	0.549	0.215	--	2.56	1.00	--		1.076
Heptane	3.53	0.215	--	14.5	0.881	--		1.076
cis-1,3-Dichloropropene	ND	0.215	--	ND	0.976	--		1.076
4-Methyl-2-pentanone	ND	0.538	--	ND	2.20	--		1.076
trans-1,3-Dichloropropene	ND	0.215	--	ND	0.976	--		1.076
1,1,2-Trichloroethane	ND	0.215	--	ND	1.17	--		1.076
Toluene	23.2	0.215	--	87.4	0.810	--		1.076
2-Hexanone	3.77	0.215	--	15.5	0.881	--		1.076
Dibromochloromethane	ND	0.215	--	ND	1.83	--		1.076
1,2-Dibromoethane	ND	0.215	--	ND	1.65	--		1.076
Tetrachloroethene	1.10	0.215	--	7.46	1.46	--		1.076
Chlorobenzene	ND	0.215	--	ND	0.990	--		1.076

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

SAMPLE RESULTS

Lab ID: L2341895-05 D
Client ID: SV18_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 15:11
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethylbenzene	8.97	0.215	--	39.0	0.934	--		1.076
p/m-Xylene	36.2	0.430	--	157	1.87	--		1.076
Bromoform	ND	0.215	--	ND	2.22	--		1.076
Styrene	0.533	0.215	--	2.27	0.915	--		1.076
1,1,2,2-Tetrachloroethane	ND	0.215	--	ND	1.48	--		1.076
o-Xylene	15.5	0.215	--	67.3	0.934	--		1.076
4-Ethyltoluene	4.41	0.215	--	21.7	1.06	--		1.076
1,3,5-Trimethylbenzene	4.44	0.215	--	21.8	1.06	--		1.076
1,2,4-Trimethylbenzene	17.9	0.215	--	88.0	1.06	--		1.076
Benzyl chloride	ND	0.215	--	ND	1.11	--		1.076
1,3-Dichlorobenzene	ND	0.215	--	ND	1.29	--		1.076
1,4-Dichlorobenzene	ND	0.215	--	ND	1.29	--		1.076
1,2-Dichlorobenzene	ND	0.215	--	ND	1.29	--		1.076
1,2,4-Trichlorobenzene	ND	0.215	--	ND	1.60	--		1.076
Hexachlorobutadiene	ND	0.215	--	ND	2.29	--		1.076

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	98		60-140

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

SAMPLE RESULTS

Lab ID: L2341895-06
Client ID: AA02_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 15:12
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/26/23 17:31
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.459	0.200	--	2.27	0.989	--		1
Chloromethane	0.482	0.200	--	0.995	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	4.49	1.00	--	10.7	2.38	--		1
Trichlorofluoromethane	0.209	0.200	--	1.17	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

SAMPLE RESULTS

Lab ID: L2341895-06
Client ID: AA02_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 15:12
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
Xylenes, Total	ND	0.200	--	ND	0.869	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

SAMPLE RESULTS

Lab ID: L2341895-06
Client ID: AA02_072023
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/20/23 15:12
Date Received: 07/20/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	97		60-140

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/26/23 14:53

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG1808101-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, Total	ND	0.200	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/26/23 14:53

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG1808101-4								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/26/23 14:53

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG1808101-4								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2341895
Report Date: 07/27/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 07/26/23 18:12

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01 Batch: WG1808157-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341895
Report Date: 07/27/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG1808101-3								
Dichlorodifluoromethane	91		-		70-130	-		
Chloromethane	79		-		70-130	-		
Freon-114	87		-		70-130	-		
Vinyl chloride	86		-		70-130	-		
1,3-Butadiene	80		-		70-130	-		
Bromomethane	86		-		70-130	-		
Chloroethane	85		-		70-130	-		
Ethanol	77		-		40-160	-		
Vinyl bromide	82		-		70-130	-		
Acetone	95		-		40-160	-		
Trichlorofluoromethane	93		-		70-130	-		
Isopropanol	76		-		40-160	-		
1,1-Dichloroethene	84		-		70-130	-		
Tertiary butyl Alcohol	74		-		70-130	-		
Methylene chloride	77		-		70-130	-		
3-Chloropropene	93		-		70-130	-		
Carbon disulfide	81		-		70-130	-		
Freon-113	94		-		70-130	-		
trans-1,2-Dichloroethene	91		-		70-130	-		
1,1-Dichloroethane	94		-		70-130	-		
Methyl tert butyl ether	77		-		70-130	-		
2-Butanone	82		-		70-130	-		
cis-1,2-Dichloroethene	96		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341895
Report Date: 07/27/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG1808101-3								
Ethyl Acetate	90		-		70-130	-		
Chloroform	94		-		70-130	-		
Tetrahydrofuran	79		-		70-130	-		
1,2-Dichloroethane	92		-		70-130	-		
n-Hexane	85		-		70-130	-		
1,1,1-Trichloroethane	93		-		70-130	-		
Benzene	84		-		70-130	-		
Carbon tetrachloride	94		-		70-130	-		
Cyclohexane	85		-		70-130	-		
1,2-Dichloropropane	92		-		70-130	-		
Bromodichloromethane	90		-		70-130	-		
1,4-Dioxane	85		-		70-130	-		
Trichloroethene	93		-		70-130	-		
2,2,4-Trimethylpentane	87		-		70-130	-		
Heptane	85		-		70-130	-		
cis-1,3-Dichloropropene	88		-		70-130	-		
4-Methyl-2-pentanone	87		-		70-130	-		
trans-1,3-Dichloropropene	79		-		70-130	-		
1,1,2-Trichloroethane	100		-		70-130	-		
Toluene	92		-		70-130	-		
2-Hexanone	82		-		70-130	-		
Dibromochloromethane	100		-		70-130	-		
1,2-Dibromoethane	94		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341895

Report Date: 07/27/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG1808101-3								
Tetrachloroethene	91		-		70-130	-		
Chlorobenzene	92		-		70-130	-		
Ethylbenzene	98		-		70-130	-		
p/m-Xylene	99		-		70-130	-		
Bromoform	107		-		70-130	-		
Styrene	95		-		70-130	-		
1,1,2,2-Tetrachloroethane	100		-		70-130	-		
o-Xylene	99		-		70-130	-		
4-Ethyltoluene	94		-		70-130	-		
1,3,5-Trimethylbenzene	94		-		70-130	-		
1,2,4-Trimethylbenzene	94		-		70-130	-		
Benzyl chloride	86		-		70-130	-		
1,3-Dichlorobenzene	106		-		70-130	-		
1,4-Dichlorobenzene	104		-		70-130	-		
1,2-Dichlorobenzene	102		-		70-130	-		
1,2,4-Trichlorobenzene	84		-		70-130	-		
Hexachlorobutadiene	91		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341895

Report Date: 07/27/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01 Batch: WG1808157-3								
Vinyl chloride	82		-		70-130	-		25
1,1-Dichloroethene	92		-		70-130	-		25
cis-1,2-Dichloroethene	80		-		70-130	-		25
1,1,1-Trichloroethane	89		-		70-130	-		25
Carbon tetrachloride	115		-		70-130	-		25
Trichloroethene	80		-		70-130	-		25
Tetrachloroethene	74		-		70-130	-		25

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2341895

Report Date: 07/27/23

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2341895-01	SV11_072023	02134	Flow 2	07/19/23	430498		-	-	-	Pass	40.0	38.3	4
L2341895-01	SV11_072023	2951	6.0L Can	07/19/23	430498	L2337551-01	Pass	-29.4	-7.7	-	-	-	-
L2341895-02	SV12_072023	01167	Flow 2	07/19/23	430498		-	-	-	Pass	40.3	38.9	4
L2341895-02	SV12_072023	3321	6.0L Can	07/19/23	430498	L2337551-01	Pass	-29.5	-7.4	-	-	-	-
L2341895-03	SV15_072023	0141	Flow 2	07/19/23	430498		-	-	-	Pass	40.5	39.3	3
L2341895-03	SV15_072023	1869	6.0L Can	07/19/23	430498	L2337551-01	Pass	-29.4	-8.0	-	-	-	-
L2341895-04	SV17_072023	01442	Flow 2	07/19/23	430498		-	-	-	Pass	40.4	39.3	3
L2341895-04	SV17_072023	2105	6.0L Can	07/19/23	430498	L2338010-03	Pass	-29.5	-9.2	-	-	-	-
L2341895-05	SV18_072023	01764	Flow 2	07/19/23	430498		-	-	-	Pass	40.4	40.0	1
L2341895-05	SV18_072023	1850	6.0L Can	07/19/23	430498	L2338010-03	Pass	-29.5	-10.6	-	-	-	-
L2341895-06	AA02_072023	01925	Flow 2	07/19/23	430498		-	-	-	Pass	40.3	39.9	1
L2341895-06	AA02_072023	1060	6.0L Can	07/19/23	430498	L2338010-03	Pass	-29.5	-1.1	-	-	-	-
L2341895-07	UNUSED CAN #3091	02169	Flow 2	07/19/23	430498		-	-	-	Pass	40.0	40.1	0
L2341895-07	UNUSED CAN #3091	3091	6.0L Can	07/19/23	430498	L2338010-03	Pass	-29.5	-1.1	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2337551
Report Date: 07/27/23

Air Canister Certification Results

Lab ID: L2337551-01
Client ID: CAN 2121 SHELF 62
Sample Location:

Date Collected: 06/29/23 11:00
Date Received: 06/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/05/23 17:51
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2337551
Report Date: 07/27/23

Air Canister Certification Results

Lab ID: L2337551-01
Client ID: CAN 2121 SHELF 62
Sample Location:

Date Collected: 06/29/23 11:00
Date Received: 06/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2337551
Report Date: 07/27/23

Air Canister Certification Results

Lab ID: L2337551-01
Client ID: CAN 2121 SHELF 62
Sample Location:

Date Collected: 06/29/23 11:00
Date Received: 06/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2337551
Report Date: 07/27/23

Air Canister Certification Results

Lab ID: L2337551-01
Client ID: CAN 2121 SHELF 62
Sample Location:

Date Collected: 06/29/23 11:00
Date Received: 06/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2337551
Report Date: 07/27/23

Air Canister Certification Results

Lab ID: L2337551-01
Client ID: CAN 2121 SHELF 62
Sample Location:

Date Collected: 06/29/23 11:00
Date Received: 06/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	95		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2337551
Report Date: 07/27/23

Air Canister Certification Results

Lab ID: L2337551-01
Client ID: CAN 2121 SHELF 62
Sample Location:

Date Collected: 06/29/23 11:00
Date Received: 06/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/05/23 17:51
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2337551
Report Date: 07/27/23

Air Canister Certification Results

Lab ID: L2337551-01
Client ID: CAN 2121 SHELF 62
Sample Location:

Date Collected: 06/29/23 11:00
Date Received: 06/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2337551
Report Date: 07/27/23

Air Canister Certification Results

Lab ID: L2337551-01
Client ID: CAN 2121 SHELF 62
Sample Location:

Date Collected: 06/29/23 11:00
Date Received: 06/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	96		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2338010
Report Date: 07/27/23

Air Canister Certification Results

Lab ID: L2338010-03
Client ID: CAN 3073 SHELF 57
Sample Location:

Date Collected: 06/30/23 18:00
Date Received: 07/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/05/23 21:41
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2338010
Report Date: 07/27/23

Air Canister Certification Results

Lab ID: L2338010-03
Client ID: CAN 3073 SHELF 57
Sample Location:

Date Collected: 06/30/23 18:00
Date Received: 07/03/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2338010
Report Date: 07/27/23

Air Canister Certification Results

Lab ID: L2338010-03
Client ID: CAN 3073 SHELF 57
Sample Location:

Date Collected: 06/30/23 18:00
Date Received: 07/03/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2338010
Report Date: 07/27/23

Air Canister Certification Results

Lab ID: L2338010-03
Client ID: CAN 3073 SHELF 57
Sample Location:

Date Collected: 06/30/23 18:00
Date Received: 07/03/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2338010
Report Date: 07/27/23

Air Canister Certification Results

Lab ID: L2338010-03
Client ID: CAN 3073 SHELF 57
Sample Location:

Date Collected: 06/30/23 18:00
Date Received: 07/03/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2338010
Report Date: 07/27/23

Air Canister Certification Results

Lab ID: L2338010-03
Client ID: CAN 3073 SHELF 57
Sample Location:

Date Collected: 06/30/23 18:00
Date Received: 07/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/05/23 21:41
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2338010
Report Date: 07/27/23

Air Canister Certification Results

Lab ID: L2338010-03
Client ID: CAN 3073 SHELF 57
Sample Location:

Date Collected: 06/30/23 18:00
Date Received: 07/03/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2338010
Report Date: 07/27/23

Air Canister Certification Results

Lab ID: L2338010-03
Client ID: CAN 3073 SHELF 57
Sample Location:

Date Collected: 06/30/23 18:00
Date Received: 07/03/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	94		60-140

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2341895
Report Date: 07/27/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2341895-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2341895-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2341895-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2341895-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2341895-05A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2341895-06A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2341895-07A	Canister - 2.7 Liter	NA	NA			Y	Absent		CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341895
Project Number:	170754501	**Report Date:**	07/27/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341895
Project Number:	170754501	**Report Date:**	07/27/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2341895
Project Number:	170754501	**Report Date:**	07/27/23

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

CHAIN OF CUSTODY PAGE OF

ALPHA ANALYTICAL

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7/21/23 ALPHA Job #: L2341895

Client Information

Client: Langan
Address: 360 W 31st Street, 8th Floor
New York, NY 10001
Phone: (212) 479-5400
Fax:
Email: jarmstrong@langan.com

Project Information

Project Name: Project Maximus
Project Location: 1255 Hemstead Tpke, Uniondale, NY
Project #: 170754501
Project Manager: Jennifer Armstrong
ALPHA Quote #:

Turn-Around-Time

☒ Standard ☐ Rush (only confirmed if pre-approved)
Date Due: Time:

Report/Data Deliverables Information

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 170754501

Regulatory Requirements/Report Limits

State/Fed	Program	Residential/Commercial

☐ These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments:
☐ Project-Specific Target Compound List
Please CC kgioia@langan.com and datamanagement@langan.com

Analysis

All Columns Below Must Be Filled Out

Alpha Lab Use Only	Sample ID	Collection End Date	Collection Start Time	Collection End Time	Initial Vac	Final Vac	Sample Matrix*	Sampler Initials	Can Size	ID Can	ID Flow Controller	TO-15	TO-15 SIM	Subtract non-petroleum HCs APH ☐	FIXED GASES	Sulfides & Mercaptans by TO-15			Sample Specific Comments (i.e. PID)
41895-01	SV11_072023	7/20/23	13:05	15:05	-30.07	-7.19	Air	AA	6L	2951	02134	☒	☐	☐	☐	☐	☐	☐	
02	SV12_072023		13:31	15:31	-30.03	-6.98		AA	6L	3321	01167	☒	☐	☐	☐	☐	☐	☐	
03	SV15_072023		13:25	15:25	-29.98	-7.43		AA	6L	1869	0141	☒	☐	☐	☐	☐	☐	☐	
04	SV17_072023		14:39	16:40	-30.01	-8.82		AA	6L	2105	01442	☒	☐	☐	☐	☐	☐	☐	
05	SV18_072023		13:11	15:11	-30.06	-10.45		AA	6L	1850	01764	☒	☐	☐	☐	☐	☐	☐	
06	AA02_072023	↓	13:38	15:12	-30.15	-1.02	↓	AA	6L	1060	01925	☒	☐	☐	☐	☐	☐	☐	
											Container Type	-	-	-	-	-	-	-	

***SAMPLE MATRIX CODES:**

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Relinquished By	Date/Time	Received By:	Date/Time
Andrew Ashley	07/20/23 1691		
	7/20/23 1915	7/20	2100
7/21 0230	7/21 0230	7/21	0230
7/21 0700			7/21/23 0700

Please print clearly & legibly and completely. Samples cannot be logged in and turn around time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

Form 101-02 (I) Rev: 25-Sept-15

ANALYTICAL REPORT

Lab Number:	L2342329
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Jennifer Armstrong
Phone:	(212) 479-5537
Project Name:	PROJECT MAXIMUS
Project Number:	170754501
Report Date:	08/01/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
Report Date: 08/01/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2342329-01	TMW14_072123	WATER	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/21/23 11:00	07/21/23
L2342329-02	TMW11_072123	WATER	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/21/23 13:00	07/21/23
L2342329-03	GWFB02_072123	WATER	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/21/23 13:30	07/21/23
L2342329-04	TB04_072123	WATER	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/21/23 00:00	07/21/23
L2342329-05	SB21_5-7	SOIL	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/21/23 09:43	07/21/23
L2342329-06	SB19_5-7	SOIL	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/21/23 12:30	07/21/23
L2342329-07	SB13_2-4	SOIL	1255 HEMPSTEAD TPKE, UNIONDALE, NY	07/21/23 15:00	07/21/23

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2342329
Project Number:	170754501	**Report Date:**	08/01/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329
Project Number: 170754501 **Report Date:** 08/01/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The analyses performed were specified by the client.

L2342329-02: The sample was received above the appropriate pH for the Dissolved Metals analysis. The laboratory added additional HNO3 to a pH <2.

Total Metals

L2342329-03: The Field Blank has a result for barium present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

L2342329-05,-06, and -07: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

Total Mercury

L2342329-02: The sample has an elevated detection limit for mercury due to the prep dilution required by the sample matrix.

Dissolved Metals

L2342329-03: The Field Blank has a result for barium present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative Date: 08/01/23

ORGANICS

VOLATILES

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-01 Date Collected: 07/21/23 11:00

Client ID: TMW14_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 07/25/23 23:52

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-01 Date Collected: 07/21/23 11:00

Client ID: TMW14_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.7	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-01 Date Collected: 07/21/23 11:00

Client ID: TMW14_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	111		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-02 Date Collected: 07/21/23 13:00

Client ID: TMW11_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 07/26/23 00:14

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-02 Date Collected: 07/21/23 13:00

Client ID: TMW11_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-02 Date Collected: 07/21/23 13:00

Client ID: TMW11_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	112		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-03 Date Collected: 07/21/23 13:30

Client ID: GWFB02_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 07/26/23 00:36

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-03 Date Collected: 07/21/23 13:30

Client ID: GWFB02_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	4.2	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-03 Date Collected: 07/21/23 13:30

Client ID: GWFB02_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	110		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-04 Date Collected: 07/21/23 00:00
Client ID: TB04_072123 Date Received: 07/21/23
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/26/23 00:57
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-04 Date Collected: 07/21/23 00:00

Client ID: TB04_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-04 Date Collected: 07/21/23 00:00

Client ID: TB04_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	113		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-05 Date Collected: 07/21/23 09:43

Client ID: SB21_5-7 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: None

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 07/27/23 11:01

Analyst: AJK

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.2	1.9	1
1,1-Dichloroethane	ND		ug/kg	0.85	0.12	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.85	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.85	0.11	1
Dibromochloromethane	ND		ug/kg	0.85	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.85	0.23	1
Tetrachloroethene	ND		ug/kg	0.42	0.17	1
Chlorobenzene	ND		ug/kg	0.42	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.59	1
1,2-Dichloroethane	ND		ug/kg	0.85	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.42	0.14	1
Bromodichloromethane	ND		ug/kg	0.42	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.85	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.42	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	0.42	0.13	1
1,1-Dichloropropene	ND		ug/kg	0.42	0.13	1
Bromoform	ND		ug/kg	3.4	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.42	0.14	1
Benzene	ND		ug/kg	0.42	0.14	1
Toluene	ND		ug/kg	0.85	0.46	1
Ethylbenzene	ND		ug/kg	0.85	0.12	1
Chloromethane	ND		ug/kg	3.4	0.79	1
Bromomethane	ND		ug/kg	1.7	0.49	1
Vinyl chloride	ND		ug/kg	0.85	0.28	1
Chloroethane	ND		ug/kg	1.7	0.38	1
1,1-Dichloroethene	ND		ug/kg	0.85	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-05 Date Collected: 07/21/23 09:43

Client ID: SB21_5-7 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.42	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.47	1
o-Xylene	ND		ug/kg	0.85	0.25	1
Xylenes, Total	ND		ug/kg	0.85	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	0.85	0.15	1
1,2-Dichloroethene, Total	ND		ug/kg	0.85	0.12	1
Dibromomethane	ND		ug/kg	1.7	0.20	1
Styrene	ND		ug/kg	0.85	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.5	0.78	1
Acetone	17		ug/kg	8.5	4.1	1
Carbon disulfide	ND		ug/kg	8.5	3.8	1
2-Butanone	ND		ug/kg	8.5	1.9	1
Vinyl acetate	ND		ug/kg	8.5	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.5	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	0.11	1
2-Hexanone	ND		ug/kg	8.5	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.17	1
2,2-Dichloropropane	ND		ug/kg	1.7	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.85	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.7	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.42	0.11	1
Bromobenzene	ND		ug/kg	1.7	0.12	1
n-Butylbenzene	ND		ug/kg	0.85	0.14	1
sec-Butylbenzene	ND		ug/kg	0.85	0.12	1
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1
o-Chlorotoluene	ND		ug/kg	1.7	0.16	1
p-Chlorotoluene	ND		ug/kg	1.7	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	0.85	1
Hexachlorobutadiene	ND		ug/kg	3.4	0.14	1
Isopropylbenzene	ND		ug/kg	0.85	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.85	0.09	1
Naphthalene	ND		ug/kg	3.4	0.55	1
Acrylonitrile	ND		ug/kg	3.4	0.98	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-05 Date Collected: 07/21/23 09:43

Client ID: SB21_5-7 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.85	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.28	1
1,4-Dioxane	ND		ug/kg	68	30.	1
p-Diethylbenzene	ND		ug/kg	1.7	0.15	1
p-Ethyltoluene	ND		ug/kg	1.7	0.32	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.7	0.16	1
Ethyl ether	ND		ug/kg	1.7	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.2	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	94		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-06 Date Collected: 07/21/23 12:30

Client ID: SB19_5-7 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 07/27/23 11:53

Analyst: AJK

Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.9	1.8	1
1,1-Dichloroethane	ND		ug/kg	0.78	0.11	1
Chloroform	ND		ug/kg	1.2	0.11	1
Carbon tetrachloride	ND		ug/kg	0.78	0.18	1
1,2-Dichloropropane	ND		ug/kg	0.78	0.10	1
Dibromochloromethane	ND		ug/kg	0.78	0.11	1
1,1,2-Trichloroethane	ND		ug/kg	0.78	0.21	1
Tetrachloroethene	ND		ug/kg	0.39	0.15	1
Chlorobenzene	ND		ug/kg	0.39	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.1	0.54	1
1,2-Dichloroethane	ND		ug/kg	0.78	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	0.39	0.13	1
Bromodichloromethane	ND		ug/kg	0.39	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.78	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	0.39	0.12	1
1,3-Dichloropropene, Total	ND		ug/kg	0.39	0.12	1
1,1-Dichloropropene	ND		ug/kg	0.39	0.12	1
Bromoform	ND		ug/kg	3.1	0.19	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.39	0.13	1
Benzene	0.14	J	ug/kg	0.39	0.13	1
Toluene	ND		ug/kg	0.78	0.42	1
Ethylbenzene	ND		ug/kg	0.78	0.11	1
Chloromethane	ND		ug/kg	3.1	0.73	1
Bromomethane	ND		ug/kg	1.6	0.45	1
Vinyl chloride	ND		ug/kg	0.78	0.26	1
Chloroethane	ND		ug/kg	1.6	0.35	1
1,1-Dichloroethene	ND		ug/kg	0.78	0.19	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.11	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-06 Date Collected: 07/21/23 12:30

Client ID: SB19_5-7 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.39	0.11	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	0.11	1
1,3-Dichlorobenzene	ND		ug/kg	1.6	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	0.13	1
Methyl tert butyl ether	ND		ug/kg	1.6	0.16	1
p/m-Xylene	ND		ug/kg	1.6	0.44	1
o-Xylene	ND		ug/kg	0.78	0.23	1
Xylenes, Total	ND		ug/kg	0.78	0.23	1
cis-1,2-Dichloroethene	ND		ug/kg	0.78	0.14	1
1,2-Dichloroethene, Total	ND		ug/kg	0.78	0.11	1
Dibromomethane	ND		ug/kg	1.6	0.19	1
Styrene	ND		ug/kg	0.78	0.15	1
Dichlorodifluoromethane	ND		ug/kg	7.8	0.72	1
Acetone	17		ug/kg	7.8	3.8	1
Carbon disulfide	ND		ug/kg	7.8	3.6	1
2-Butanone	ND		ug/kg	7.8	1.7	1
Vinyl acetate	ND		ug/kg	7.8	1.7	1
4-Methyl-2-pentanone	ND		ug/kg	7.8	1.0	1
1,2,3-Trichloropropane	ND		ug/kg	1.6	0.10	1
2-Hexanone	ND		ug/kg	7.8	0.92	1
Bromochloromethane	ND		ug/kg	1.6	0.16	1
2,2-Dichloropropane	ND		ug/kg	1.6	0.16	1
1,2-Dibromoethane	ND		ug/kg	0.78	0.22	1
1,3-Dichloropropane	ND		ug/kg	1.6	0.13	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.39	0.10	1
Bromobenzene	ND		ug/kg	1.6	0.11	1
n-Butylbenzene	ND		ug/kg	0.78	0.13	1
sec-Butylbenzene	ND		ug/kg	0.78	0.11	1
tert-Butylbenzene	ND		ug/kg	1.6	0.09	1
o-Chlorotoluene	ND		ug/kg	1.6	0.15	1
p-Chlorotoluene	ND		ug/kg	1.6	0.08	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.3	0.78	1
Hexachlorobutadiene	ND		ug/kg	3.1	0.13	1
Isopropylbenzene	ND		ug/kg	0.78	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.78	0.09	1
Naphthalene	ND		ug/kg	3.1	0.51	1
Acrylonitrile	ND		ug/kg	3.1	0.90	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-06 Date Collected: 07/21/23 12:30

Client ID: SB19_5-7 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.78	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.6	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.6	0.26	1
1,4-Dioxane	ND		ug/kg	62	27.	1
p-Diethylbenzene	ND		ug/kg	1.6	0.14	1
p-Ethyltoluene	ND		ug/kg	1.6	0.30	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.6	0.15	1
Ethyl ether	ND		ug/kg	1.6	0.27	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	3.9	1.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	100		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-07 Date Collected: 07/21/23 15:00

Client ID: SB13_2-4 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 07/27/23 11:27

Analyst: AJK

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.79	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.57	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-07 Date Collected: 07/21/23 15:00

Client ID: SB13_2-4 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	190		ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	34		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.57	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.13	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.6	0.74	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-07 Date Collected: 07/21/23 15:00

Client ID: SB13_2-4 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	91	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/25/23 19:10
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1808027-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/25/23 19:10
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1808027-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/25/23 19:10
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1808027-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	110		70-130

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/27/23 10:36
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-07 Batch: WG1808751-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/27/23 10:36
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-07 Batch: WG1808751-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/27/23 10:36
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-07 Batch: WG1808751-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1808027-3 WG1808027-4								
Methylene chloride	98		96		70-130	2		20
1,1-Dichloroethane	100		98		70-130	2		20
Chloroform	110		100		70-130	10		20
Carbon tetrachloride	97		92		63-132	5		20
1,2-Dichloropropane	97		90		70-130	7		20
Dibromochloromethane	85		78		63-130	9		20
1,1,2-Trichloroethane	84		79		70-130	6		20
Tetrachloroethene	97		87		70-130	11		20
Chlorobenzene	100		93		75-130	7		20
Trichlorofluoromethane	90		86		62-150	5		20
1,2-Dichloroethane	91		91		70-130	0		20
1,1,1-Trichloroethane	97		92		67-130	5		20
Bromodichloromethane	97		91		67-130	6		20
trans-1,3-Dichloropropene	85		78		70-130	9		20
cis-1,3-Dichloropropene	88		85		70-130	3		20
1,1-Dichloropropene	91		84		70-130	8		20
Bromoform	80		76		54-136	5		20
1,1,2,2-Tetrachloroethane	83		83		67-130	0		20
Benzene	100		94		70-130	6		20
Toluene	100		91		70-130	9		20
Ethylbenzene	98		90		70-130	9		20
Chloromethane	100		99		64-130	1		20
Bromomethane	88		89		39-139	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1808027-3 WG1808027-4								
Vinyl chloride	95		90		55-140	5		20
Chloroethane	100		99		55-138	1		20
1,1-Dichloroethene	92		89		61-145	3		20
trans-1,2-Dichloroethene	98		95		70-130	3		20
Trichloroethene	91		85		70-130	7		20
1,2-Dichlorobenzene	96		89		70-130	8		20
1,3-Dichlorobenzene	100		92		70-130	8		20
1,4-Dichlorobenzene	100		92		70-130	8		20
Methyl tert butyl ether	74		75		63-130	1		20
p/m-Xylene	100		90		70-130	11		20
o-Xylene	100		90		70-130	11		20
cis-1,2-Dichloroethene	100		96		70-130	4		20
Dibromomethane	89		90		70-130	1		20
1,2,3-Trichloropropane	76		76		64-130	0		20
Acrylonitrile	79		83		70-130	5		20
Styrene	100		90		70-130	11		20
Dichlorodifluoromethane	82		80		36-147	2		20
Acetone	77		81		58-148	5		20
Carbon disulfide	99		93		51-130	6		20
2-Butanone	68		70		63-138	3		20
Vinyl acetate	100		100		70-130	0		20
4-Methyl-2-pentanone	64		67		59-130	5		20
2-Hexanone	59		63		57-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1808027-3 WG1808027-4								
Bromochloromethane	97		98		70-130	1		20
2,2-Dichloropropane	100		96		63-133	4		20
1,2-Dibromoethane	83		80		70-130	4		20
1,3-Dichloropropane	85		79		70-130	7		20
1,1,1,2-Tetrachloroethane	94		85		64-130	10		20
Bromobenzene	97		91		70-130	6		20
n-Butylbenzene	97		86		53-136	12		20
sec-Butylbenzene	95		86		70-130	10		20
tert-Butylbenzene	94		87		70-130	8		20
o-Chlorotoluene	100		92		70-130	8		20
p-Chlorotoluene	99		91		70-130	8		20
1,2-Dibromo-3-chloropropane	68		72		41-144	6		20
Hexachlorobutadiene	99		87		63-130	13		20
Isopropylbenzene	95		87		70-130	9		20
p-Isopropyltoluene	94		85		70-130	10		20
Naphthalene	76		74		70-130	3		20
n-Propylbenzene	96		88		69-130	9		20
1,2,3-Trichlorobenzene	93		88		70-130	6		20
1,2,4-Trichlorobenzene	96		88		70-130	9		20
1,3,5-Trimethylbenzene	94		86		64-130	9		20
1,2,4-Trimethylbenzene	94		87		70-130	8		20
1,4-Dioxane	70		68		56-162	3		20
p-Diethylbenzene	93		82		70-130	13		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1808027-3 WG1808027-4								
p-Ethyltoluene	97		88		70-130	10		20
1,2,4,5-Tetramethylbenzene	94		84		70-130	11		20
Ethyl ether	84		84		59-134	0		20
trans-1,4-Dichloro-2-butene	75		77		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		98		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	93		94		70-130
Dibromofluoromethane	100		105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-07 Batch: WG1808751-3 WG1808751-4								
Methylene chloride	92		89		70-130	3		30
1,1-Dichloroethane	127		121		70-130	5		30
Chloroform	99		98		70-130	1		30
Carbon tetrachloride	105		101		70-130	4		30
1,2-Dichloropropane	118		114		70-130	3		30
Dibromochloromethane	94		93		70-130	1		30
1,1,2-Trichloroethane	93		91		70-130	2		30
Tetrachloroethene	109		103		70-130	6		30
Chlorobenzene	100		96		70-130	4		30
Trichlorofluoromethane	99		92		70-139	7		30
1,2-Dichloroethane	117		114		70-130	3		30
1,1,1-Trichloroethane	111		107		70-130	4		30
Bromodichloromethane	97		94		70-130	3		30
trans-1,3-Dichloropropene	97		95		70-130	2		30
cis-1,3-Dichloropropene	101		98		70-130	3		30
1,1-Dichloropropene	114		108		70-130	5		30
Bromoform	87		87		70-130	0		30
1,1,2,2-Tetrachloroethane	88		88		70-130	0		30
Benzene	102		98		70-130	4		30
Toluene	103		98		70-130	5		30
Ethylbenzene	107		102		70-130	5		30
Chloromethane	**142**	Q	**134**	Q	52-130	6		30
Bromomethane	113		106		57-147	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-07 Batch: WG1808751-3 WG1808751-4								
Vinyl chloride	129		122		67-130	6		30
Chloroethane	120		115		50-151	4		30
1,1-Dichloroethene	108		101		65-135	7		30
trans-1,2-Dichloroethene	107		101		70-130	6		30
Trichloroethene	108		102		70-130	6		30
1,2-Dichlorobenzene	98		94		70-130	4		30
1,3-Dichlorobenzene	102		97		70-130	5		30
1,4-Dichlorobenzene	98		93		70-130	5		30
Methyl tert butyl ether	112		110		66-130	2		30
p/m-Xylene	105		100		70-130	5		30
o-Xylene	102		98		70-130	4		30
cis-1,2-Dichloroethene	104		99		70-130	5		30
Dibromomethane	92		93		70-130	1		30
Styrene	103		99		70-130	4		30
Dichlorodifluoromethane	100		94		30-146	6		30
Acetone	115		120		54-140	4		30
Carbon disulfide	102		96		59-130	6		30
2-Butanone	94		97		70-130	3		30
Vinyl acetate	84		84		70-130	0		30
4-Methyl-2-pentanone	122		122		70-130	0		30
1,2,3-Trichloropropane	92		93		68-130	1		30
2-Hexanone	110		111		70-130	1		30
Bromochloromethane	97		94		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-07 Batch: WG1808751-3 WG1808751-4								
2,2-Dichloropropane	106		104		70-130	2		30
1,2-Dibromoethane	97		97		70-130	0		30
1,3-Dichloropropane	96		94		69-130	2		30
1,1,1,2-Tetrachloroethane	101		98		70-130	3		30
Bromobenzene	99		94		70-130	5		30
n-Butylbenzene	102		97		70-130	5		30
sec-Butylbenzene	106		100		70-130	6		30
tert-Butylbenzene	107		102		70-130	5		30
o-Chlorotoluene	103		97		70-130	6		30
p-Chlorotoluene	102		95		70-130	7		30
1,2-Dibromo-3-chloropropane	91		94		68-130	3		30
Hexachlorobutadiene	101		96		67-130	5		30
Isopropylbenzene	106		100		70-130	6		30
p-Isopropyltoluene	107		100		70-130	7		30
Naphthalene	96		97		70-130	1		30
Acrylonitrile	112		116		70-130	4		30
n-Propylbenzene	107		102		70-130	5		30
1,2,3-Trichlorobenzene	97		94		70-130	3		30
1,2,4-Trichlorobenzene	99		95		70-130	4		30
1,3,5-Trimethylbenzene	101		96		70-130	5		30
1,2,4-Trimethylbenzene	101		95		70-130	6		30
1,4-Dioxane	100		104		65-136	4		30
p-Diethylbenzene	104		99		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-07 Batch: WG1808751-3 WG1808751-4								
p-Ethyltoluene	105		99		70-130	6		30
1,2,4,5-Tetramethylbenzene	103		98		70-130	5		30
Ethyl ether	110		106		67-130	4		30
trans-1,4-Dichloro-2-butene	120		**134**	Q	70-130	11		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		103		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	106		105		70-130
Dibromofluoromethane	92		93		70-130

SEMIVOLATILES

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-01
Client ID: TMW14_072123
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 11:00
Date Received: 07/21/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 07/27/23 22:43
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 07/27/23 00:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-01 Date Collected: 07/21/23 11:00

Client ID: TMW14_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		21-120
Phenol-d6	62		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	94		15-120
2,4,6-Tribromophenol	**141**	Q	10-120
4-Terphenyl-d14	84		41-149

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-01
Client ID: TMW14_072123
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 11:00
Date Received: 07/21/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 07/27/23 12:06
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 07/27/23 00:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.09	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	0.10	J	ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-01 Date Collected: 07/21/23 11:00

Client ID: TMW14_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		21-120
Phenol-d6	65		10-120
Nitrobenzene-d5	115		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	**127**	Q	10-120
4-Terphenyl-d14	60		41-149

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-02
Client ID: TMW11_072123
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 13:00
Date Received: 07/21/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 07/27/23 23:05
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 07/27/23 00:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-02 Date Collected: 07/21/23 13:00

Client ID: TMW11_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	119		10-120
4-Terphenyl-d14	73		41-149

Project Name: PROJECT MAXIMUS
Lab Number: L2342329
Project Number: 170754501
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-02
Client ID: TMW11_072123
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 13:00
Date Received: 07/21/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 07/27/23 12:23
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 07/27/23 00:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.05	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-02 Date Collected: 07/21/23 13:00

Client ID: TMW11_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	109		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	**130**	Q	10-120
4-Terphenyl-d14	65		41-149

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-03
Client ID: GWFB02_072123
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 13:30
Date Received: 07/21/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 07/27/23 23:28
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 07/27/23 00:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-03 Date Collected: 07/21/23 13:30

Client ID: GWFB02_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	92		15-120
2,4,6-Tribromophenol	**134**	Q	10-120
4-Terphenyl-d14	83		41-149

Project Name: PROJECT MAXIMUS
Lab Number: L2342329
Project Number: 170754501
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-03
Client ID: GWFB02_072123
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 13:30
Date Received: 07/21/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 07/27/23 12:40
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 07/27/23 00:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.05	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.03	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.01	J	ug/l	0.10	0.01	1
Pyrene	0.12		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-03 Date Collected: 07/21/23 13:30

Client ID: GWFB02_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		21-120
Phenol-d6	64		10-120
Nitrobenzene-d5	**123**	Q	23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	**147**	Q	10-120
4-Terphenyl-d14	72		41-149

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-05
Client ID: SB21_5-7
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 09:43
Date Received: 07/21/23
Field Prep: None

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/26/23 05:28
Analyst: EJL
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 07/25/23 07:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-05 Date Collected: 07/21/23 09:43

Client ID: SB21_5-7 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	24.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-05 Date Collected: 07/21/23 09:43

Client ID: SB21_5-7 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	55		10-136
4-Terphenyl-d14	61		18-120

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-06
Client ID: SB19_5-7
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 12:30
Date Received: 07/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/26/23 07:39
Analyst: EJL
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 07/25/23 07:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-06 Date Collected: 07/21/23 12:30

Client ID: SB19_5-7 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	22.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	830	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-06 Date Collected: 07/21/23 12:30

Client ID: SB19_5-7 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	8.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		25-120
Phenol-d6	53		10-120
Nitrobenzene-d5	49		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	49		18-120

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-07
Client ID: SB13_2-4
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 15:00
Date Received: 07/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/26/23 11:33
Analyst: IM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 07/25/23 19:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	43	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	64.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	63.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-07 Date Collected: 07/21/23 15:00

Client ID: SB13_2-4 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	30	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	25	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	42	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	19.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	900	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-07 Date Collected: 07/21/23 15:00

Client ID: SB13_2-4 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	76		18-120

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/26/23 03:49
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 07/25/23 07:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05-07 Batch: WG1807327-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/26/23 03:49
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 07/25/23 07:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05-07 Batch: WG1807327-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/26/23 03:49
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 07/25/23 07:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05-07 Batch: WG1807327-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	74		18-120

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/27/23 08:07
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/26/23 18:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1808159-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/27/23 08:07
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/26/23 18:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1808159-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/27/23 08:07
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/26/23 18:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1808159-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	78		41-149

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 07/27/23 10:37
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/26/23 18:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1808160-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 07/27/23 10:37
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/26/23 18:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1808160-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		21-120
Phenol-d6	60		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	94		15-120
2,4,6-Tribromophenol	115		10-120
4-Terphenyl-d14	97		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-07 Batch: WG1807327-2 WG1807327-3								
Acenaphthene	68		74		31-137	8		50
1,2,4-Trichlorobenzene	71		73		38-107	3		50
Hexachlorobenzene	75		79		40-140	5		50
Bis(2-chloroethyl)ether	67		70		40-140	4		50
2-Chloronaphthalene	69		74		40-140	7		50
1,2-Dichlorobenzene	72		74		40-140	3		50
1,3-Dichlorobenzene	71		74		40-140	4		50
1,4-Dichlorobenzene	71		72		28-104	1		50
3,3'-Dichlorobenzidine	64		67		40-140	5		50
2,4-Dinitrotoluene	84		88		40-132	5		50
2,6-Dinitrotoluene	72		82		40-140	13		50
Fluoranthene	81		84		40-140	4		50
4-Chlorophenyl phenyl ether	70		73		40-140	4		50
4-Bromophenyl phenyl ether	73		78		40-140	7		50
Bis(2-chloroisopropyl)ether	57		60		40-140	5		50
Bis(2-chloroethoxy)methane	64		70		40-117	9		50
Hexachlorobutadiene	79		84		40-140	6		50
Hexachlorocyclopentadiene	78		81		40-140	4		50
Hexachloroethane	72		73		40-140	1		50
Isophorone	65		70		40-140	7		50
Naphthalene	71		77		40-140	8		50
Nitrobenzene	70		72		40-140	3		50
NDPA/DPA	74		79		36-157	7		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-07 Batch: WG1807327-2 WG1807327-3								
n-Nitrosodi-n-propylamine	70		74		32-121	6		50
Bis(2-ethylhexyl)phthalate	70		74		40-140	6		50
Butyl benzyl phthalate	90		89		40-140	1		50
Di-n-butylphthalate	73		77		40-140	5		50
Di-n-octylphthalate	73		78		40-140	7		50
Diethyl phthalate	72		76		40-140	5		50
Dimethyl phthalate	68		76		40-140	11		50
Benzo(a)anthracene	73		79		40-140	8		50
Benzo(a)pyrene	86		91		40-140	6		50
Benzo(b)fluoranthene	74		79		40-140	7		50
Benzo(k)fluoranthene	79		86		40-140	8		50
Chrysene	74		80		40-140	8		50
Acenaphthylene	70		76		40-140	8		50
Anthracene	76		79		40-140	4		50
Benzo(ghi)perylene	76		82		40-140	8		50
Fluorene	72		75		40-140	4		50
Phenanthrene	72		76		40-140	5		50
Dibenzo(a,h)anthracene	74		79		40-140	7		50
Indeno(1,2,3-cd)pyrene	76		81		40-140	6		50
Pyrene	84		85		35-142	1		50
Biphenyl	74		79		37-127	7		50
4-Chloroaniline	45		58		40-140	25		50
2-Nitroaniline	80		86		47-134	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-07 Batch: WG1807327-2 WG1807327-3								
3-Nitroaniline	62		64		26-129	3		50
4-Nitroaniline	79		85		41-125	7		50
Dibenzofuran	74		77		40-140	4		50
2-Methylnaphthalene	72		76		40-140	5		50
1,2,4,5-Tetrachlorobenzene	77		83		40-117	8		50
Acetophenone	76		80		14-144	5		50
2,4,6-Trichlorophenol	75		82		30-130	9		50
p-Chloro-m-cresol	72		80		26-103	11		50
2-Chlorophenol	73		76		25-102	4		50
2,4-Dichlorophenol	74		78		30-130	5		50
2,4-Dimethylphenol	70		73		30-130	4		50
2-Nitrophenol	78		86		30-130	10		50
4-Nitrophenol	85		89		11-114	5		50
2,4-Dinitrophenol	83		88		4-130	6		50
4,6-Dinitro-o-cresol	92		99		10-130	7		50
Pentachlorophenol	96		99		17-109	3		50
Phenol	77		81		26-90	5		50
2-Methylphenol	71		75		30-130.	5		50
3-Methylphenol/4-Methylphenol	70		75		30-130	7		50
2,4,5-Trichlorophenol	76		83		30-130	9		50
Benzoic Acid	50		72		10-110	36		50
Benzyl Alcohol	73		81		40-140	10		50
Carbazole	79		83		54-128	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-07 Batch: WG1807327-2 WG1807327-3								
1,4-Dioxane	64		62		40-140	3		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	72		73		25-120
Phenol-d6	75		77		10-120
Nitrobenzene-d5	70		73		23-120
2-Fluorobiphenyl	68		73		30-120
2,4,6-Tribromophenol	84		88		10-136
4-Terphenyl-d14	83		83		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1808159-2 WG1808159-3								
Acenaphthene	70		79		37-111	12		30
1,2,4-Trichlorobenzene	65		74		39-98	13		30
Hexachlorobenzene	66		73		40-140	10		30
Bis(2-chloroethyl)ether	67		76		40-140	13		30
2-Chloronaphthalene	68		76		40-140	11		30
1,2-Dichlorobenzene	66		75		40-140	13		30
1,3-Dichlorobenzene	65		75		40-140	14		30
1,4-Dichlorobenzene	67		74		36-97	10		30
3,3'-Dichlorobenzidine	54		60		40-140	11		30
2,4-Dinitrotoluene	70		74		48-143	6		30
2,6-Dinitrotoluene	63		70		40-140	11		30
Fluoranthene	74		80		40-140	8		30
4-Chlorophenyl phenyl ether	70		76		40-140	8		30
4-Bromophenyl phenyl ether	71		80		40-140	12		30
Bis(2-chloroisopropyl)ether	67		76		40-140	13		30
Bis(2-chloroethoxy)methane	67		74		40-140	10		30
Hexachlorobutadiene	69		81		40-140	16		30
Hexachlorocyclopentadiene	61		71		40-140	15		30
Hexachloroethane	69		77		40-140	11		30
Isophorone	66		74		40-140	11		30
Naphthalene	68		79		40-140	15		30
Nitrobenzene	68		76		40-140	11		30
NDPA/DPA	74		81		40-140	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1808159-2 WG1808159-3								
n-Nitrosodi-n-propylamine	67		77		29-132	14		30
Bis(2-ethylhexyl)phthalate	79		87		40-140	10		30
Butyl benzyl phthalate	71		75		40-140	5		30
Di-n-butylphthalate	78		85		40-140	9		30
Di-n-octylphthalate	75		82		40-140	9		30
Diethyl phthalate	73		80		40-140	9		30
Dimethyl phthalate	64		69		40-140	8		30
Benzo(a)anthracene	74		83		40-140	11		30
Benzo(a)pyrene	71		79		40-140	11		30
Benzo(b)fluoranthene	66		77		40-140	15		30
Benzo(k)fluoranthene	68		72		40-140	6		30
Chrysene	76		85		40-140	11		30
Acenaphthylene	68		76		45-123	11		30
Anthracene	77		86		40-140	11		30
Benzo(ghi)perylene	74		85		40-140	14		30
Fluorene	73		82		40-140	12		30
Phenanthrene	76		85		40-140	11		30
Dibenzo(a,h)anthracene	70		81		40-140	15		30
Indeno(1,2,3-cd)pyrene	69		85		40-140	21		30
Pyrene	73		79		26-127	8		30
Biphenyl	70		80		40-140	13		30
4-Chloroaniline	55		59		40-140	7		30
2-Nitroaniline	69		74		52-143	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1808159-2 WG1808159-3								
3-Nitroaniline	66		70		25-145	6		30
4-Nitroaniline	70		73		51-143	4		30
Dibenzofuran	75		84		40-140	11		30
2-Methylnaphthalene	70		81		40-140	15		30
1,2,4,5-Tetrachlorobenzene	70		80		2-134	13		30
Acetophenone	73		80		39-129	9		30
2,4,6-Trichlorophenol	71		78		30-130	9		30
p-Chloro-m-cresol	75		83		23-97	10		30
2-Chlorophenol	71		80		27-123	12		30
2,4-Dichlorophenol	74		82		30-130	10		30
2,4-Dimethylphenol	75		80		30-130	6		30
2-Nitrophenol	65		72		30-130	10		30
4-Nitrophenol	72		77		10-80	7		30
2,4-Dinitrophenol	60		62		20-130	3		30
4,6-Dinitro-o-cresol	68		71		20-164	4		30
Pentachlorophenol	70		76		9-103	8		30
Phenol	62		69		12-110	11		30
2-Methylphenol	72		78		30-130	8		30
3-Methylphenol/4-Methylphenol	77		81		30-130	5		30
2,4,5-Trichlorophenol	71		78		30-130	9		30
Benzoic Acid	29		27		10-164	7		30
Benzyl Alcohol	64		73		26-116	13		30
Carbazole	77		83		55-144	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1808159-2 WG1808159-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	64		75		21-120
Phenol-d6	56		65		10-120
Nitrobenzene-d5	68		78		23-120
2-Fluorobiphenyl	65		77		15-120
2,4,6-Tribromophenol	67		74		10-120
4-Terphenyl-d14	66		75		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1808160-2 WG1808160-3								
Acenaphthene	67		84		40-140	23		40
2-Chloronaphthalene	75		95		40-140	24		40
Fluoranthene	73		90		40-140	21		40
Hexachlorobutadiene	75		95		40-140	24		40
Naphthalene	66		84		40-140	24		40
Benzo(a)anthracene	72		93		40-140	25		40
Benzo(a)pyrene	79		94		40-140	17		40
Benzo(b)fluoranthene	74		91		40-140	21		40
Benzo(k)fluoranthene	82		99		40-140	19		40
Chrysene	71		88		40-140	21		40
Acenaphthylene	77		96		40-140	22		40
Anthracene	72		86		40-140	18		40
Benzo(ghi)perylene	70		84		40-140	18		40
Fluorene	72		90		40-140	22		40
Phenanthrene	68		83		40-140	20		40
Dibenzo(a,h)anthracene	70		85		40-140	19		40
Indeno(1,2,3-cd)pyrene	66		78		40-140	17		40
Pyrene	74		88		40-140	17		40
2-Methylnaphthalene	73		93		40-140	24		40
Pentachlorophenol	94		109		40-140	15		40
Hexachlorobenzene	100		118		40-140	17		40
Hexachloroethane	64		81		40-140	23		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1808160-2 WG1808160-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	59		77		21-120
Phenol-d6	53		70		10-120
Nitrobenzene-d5	74		96		23-120
2-Fluorobiphenyl	74		96		15-120
2,4,6-Tribromophenol	95		119		10-120
4-Terphenyl-d14	70		90		41-149

PCBS

Project Name: PROJECT MAXIMUS
Lab Number: L2342329
Project Number: 170754501
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-01
Client ID: TMW14_072123
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 11:00
Date Received: 07/21/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/28/23 07:00
Analyst: ER

Extraction Method: EPA 3510C
Extraction Date: 07/27/23 13:23
Cleanup Method: EPA 3665A
Cleanup Date: 07/28/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-02
Client ID: TMW11_072123
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 13:00
Date Received: 07/21/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/28/23 07:09
Analyst: ER

Extraction Method: EPA 3510C
Extraction Date: 07/27/23 13:23
Cleanup Method: EPA 3665A
Cleanup Date: 07/28/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-03
Client ID: GWFB02_072123
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 13:30
Date Received: 07/21/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/28/23 07:18
Analyst: ER

Extraction Method: EPA 3510C
Extraction Date: 07/27/23 13:23
Cleanup Method: EPA 3665A
Cleanup Date: 07/28/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-05
Client ID: SB21_5-7
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 09:43
Date Received: 07/21/23
Field Prep: None

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/26/23 18:06
Analyst: AD
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 07/25/23 11:49
Cleanup Method: EPA 3665A
Cleanup Date: 07/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	51.1	4.54	1	A
Aroclor 1221	ND		ug/kg	51.1	5.12	1	A
Aroclor 1232	ND		ug/kg	51.1	10.8	1	A
Aroclor 1242	ND		ug/kg	51.1	6.89	1	A
Aroclor 1248	ND		ug/kg	51.1	7.67	1	A
Aroclor 1254	9.25	J	ug/kg	51.1	5.59	1	B
Aroclor 1260	ND		ug/kg	51.1	9.44	1	A
Aroclor 1262	ND		ug/kg	51.1	6.49	1	A
Aroclor 1268	ND		ug/kg	51.1	5.29	1	A
PCBs, Total	9.25	J	ug/kg	51.1	4.54	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-06
Client ID: SB19_5-7
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 12:30
Date Received: 07/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/26/23 19:42
Analyst: MEO
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 07/25/23 11:49
Cleanup Method: EPA 3665A
Cleanup Date: 07/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	48.8	4.33	1	A
Aroclor 1221	ND		ug/kg	48.8	4.88	1	A
Aroclor 1232	ND		ug/kg	48.8	10.3	1	A
Aroclor 1242	ND		ug/kg	48.8	6.57	1	A
Aroclor 1248	ND		ug/kg	48.8	7.31	1	A
Aroclor 1254	ND		ug/kg	48.8	5.33	1	A
Aroclor 1260	ND		ug/kg	48.8	9.01	1	A
Aroclor 1262	ND		ug/kg	48.8	6.19	1	A
Aroclor 1268	ND		ug/kg	48.8	5.05	1	A
PCBs, Total	ND		ug/kg	48.8	4.33	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-07
Client ID: SB13_2-4
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 15:00
Date Received: 07/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/26/23 19:52
Analyst: MEO
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 07/25/23 11:49
Cleanup Method: EPA 3665A
Cleanup Date: 07/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	55.6	4.94	1	A
Aroclor 1221	ND		ug/kg	55.6	5.57	1	A
Aroclor 1232	ND		ug/kg	55.6	11.8	1	A
Aroclor 1242	ND		ug/kg	55.6	7.50	1	A
Aroclor 1248	ND		ug/kg	55.6	8.34	1	A
Aroclor 1254	ND		ug/kg	55.6	6.08	1	A
Aroclor 1260	ND		ug/kg	55.6	10.3	1	A
Aroclor 1262	ND		ug/kg	55.6	7.06	1	A
Aroclor 1268	ND		ug/kg	55.6	5.76	1	A
PCBs, Total	ND		ug/kg	55.6	4.94	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/26/23 17:27
Analyst: AD

Extraction Method: EPA 3546
Extraction Date: 07/25/23 11:49
Cleanup Method: EPA 3665A
Cleanup Date: 07/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 05-07 Batch: WG1807460-1						
Aroclor 1016	ND		ug/kg	48.4	4.29	A
Aroclor 1221	ND		ug/kg	48.4	4.84	A
Aroclor 1232	ND		ug/kg	48.4	10.2	A
Aroclor 1242	ND		ug/kg	48.4	6.52	A
Aroclor 1248	ND		ug/kg	48.4	7.25	A
Aroclor 1254	ND		ug/kg	48.4	5.29	A
Aroclor 1260	ND		ug/kg	48.4	8.94	A
Aroclor 1262	ND		ug/kg	48.4	6.14	A
Aroclor 1268	ND		ug/kg	48.4	5.01	A
PCBs, Total	ND		ug/kg	48.4	4.29	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/28/23 06:34
Analyst: ER

Extraction Method: EPA 3510C
Extraction Date: 07/27/23 13:23
Cleanup Method: EPA 3665A
Cleanup Date: 07/28/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03 Batch: WG1808553-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	44		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	38		30-150	B
Decachlorobiphenyl	46		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 05-07 Batch: WG1807460-2 WG1807460-3									
Aroclor 1016	82		78		40-140	5		50	A
Aroclor 1260	66		66		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		83		30-150	A
Decachlorobiphenyl	65		61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		75		30-150	B
Decachlorobiphenyl	55		54		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1808553-2 WG1808553-3									
Aroclor 1016	80		74		40-140	8		50	A
Aroclor 1260	69		63		40-140	9		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		63		30-150	A
Decachlorobiphenyl	84		74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		54		30-150	B
Decachlorobiphenyl	76		67		30-150	B

PESTICIDES

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-01
Client ID: TMW14_072123
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 11:00
Date Received: 07/21/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 07/29/23 10:44
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 07/28/23 14:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-01 Date Collected: 07/21/23 11:00

Client ID: TMW14_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	47		30-150	B

Project Name: PROJECT MAXIMUS
Lab Number: L2342329
Project Number: 170754501
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-02
Client ID: TMW11_072123
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 13:00
Date Received: 07/21/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 07/29/23 10:55
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 07/28/23 14:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-02 Date Collected: 07/21/23 13:00

Client ID: TMW11_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	41		30-150	A
2,4,5,6-Tetrachloro-m-xylene	45		30-150	B
Decachlorobiphenyl	38		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-03
Client ID: GWFB02_072123
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 13:30
Date Received: 07/21/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 07/29/23 11:07
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 07/28/23 14:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-03 Date Collected: 07/21/23 13:30

Client ID: GWFB02_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	31		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	**29**	Q	30-150	B
Decachlorobiphenyl	41		30-150	B

Project Name: PROJECT MAXIMUS
Lab Number: L2342329
Project Number: 170754501
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-05
Client ID: SB21_5-7
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 09:43
Date Received: 07/21/23
Field Prep: None

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/26/23 16:16
Analyst: AR
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 07/25/23 14:04
Cleanup Method: EPA 3620B
Cleanup Date: 07/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.330	1	A
Lindane	ND		ug/kg	0.703	0.314	1	A
Alpha-BHC	ND		ug/kg	0.703	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.640	1	A
Heptachlor	ND		ug/kg	0.844	0.378	1	A
Aldrin	ND		ug/kg	1.69	0.594	1	A
Heptachlor epoxide	ND	IP	ug/kg	3.16	0.949	1	B
Endrin	ND		ug/kg	0.703	0.288	1	A
Endrin aldehyde	ND		ug/kg	2.11	0.738	1	A
Endrin ketone	ND		ug/kg	1.69	0.434	1	A
Dieldrin	ND		ug/kg	1.05	0.527	1	A
4,4'-DDE	ND		ug/kg	1.69	0.390	1	A
4,4'-DDD	ND		ug/kg	1.69	0.602	1	A
4,4'-DDT	1.52	J	ug/kg	1.69	1.36	1	B
Endosulfan I	ND		ug/kg	1.69	0.399	1	A
Endosulfan II	ND		ug/kg	1.69	0.564	1	A
Endosulfan sulfate	ND		ug/kg	0.703	0.335	1	A
Methoxychlor	ND		ug/kg	3.16	0.984	1	A
Toxaphene	ND		ug/kg	31.6	8.86	1	A
cis-Chlordane	0.990	JIP	ug/kg	2.11	0.588	1	B
trans-Chlordane	1.04	J	ug/kg	2.11	0.557	1	B
Chlordane	ND		ug/kg	14.1	5.59	1	A

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-05 Date Collected: 07/21/23 09:43

Client ID: SB21_5-7 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-06
Client ID: SB19_5-7
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 12:30
Date Received: 07/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/26/23 16:27
Analyst: AR
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 07/25/23 14:04
Cleanup Method: EPA 3620B
Cleanup Date: 07/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.60	0.313	1	A
Lindane	ND		ug/kg	0.666	0.298	1	A
Alpha-BHC	ND		ug/kg	0.666	0.189	1	A
Beta-BHC	ND		ug/kg	1.60	0.606	1	A
Heptachlor	ND		ug/kg	0.800	0.358	1	A
Aldrin	ND		ug/kg	1.60	0.563	1	A
Heptachlor epoxide	ND		ug/kg	3.00	0.900	1	A
Endrin	ND		ug/kg	0.666	0.273	1	A
Endrin aldehyde	ND		ug/kg	2.00	0.700	1	A
Endrin ketone	ND		ug/kg	1.60	0.412	1	A
Dieldrin	ND		ug/kg	1.00	0.500	1	A
4,4'-DDE	ND		ug/kg	1.60	0.370	1	A
4,4'-DDD	ND		ug/kg	1.60	0.570	1	A
4,4'-DDT	ND		ug/kg	1.60	1.29	1	A
Endosulfan I	ND		ug/kg	1.60	0.378	1	A
Endosulfan II	ND		ug/kg	1.60	0.534	1	A
Endosulfan sulfate	ND		ug/kg	0.666	0.317	1	A
Methoxychlor	ND		ug/kg	3.00	0.933	1	A
Toxaphene	ND		ug/kg	30.0	8.40	1	A
cis-Chlordane	ND		ug/kg	2.00	0.557	1	A
trans-Chlordane	ND		ug/kg	2.00	0.528	1	A
Chlordane	ND		ug/kg	13.3	5.30	1	A

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-06 Date Collected: 07/21/23 12:30

Client ID: SB19_5-7 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	104		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: PROJECT MAXIMUS
Lab Number: L2342329
Project Number: 170754501
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-07
Client ID: SB13_2-4
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY

Date Collected: 07/21/23 15:00
Date Received: 07/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/26/23 16:38
Analyst: AR
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 07/25/23 14:04
Cleanup Method: EPA 3620B
Cleanup Date: 07/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.346	1	A
Lindane	ND		ug/kg	0.736	0.329	1	A
Alpha-BHC	ND		ug/kg	0.736	0.209	1	A
Beta-BHC	ND		ug/kg	1.77	0.670	1	A
Heptachlor	ND		ug/kg	0.883	0.396	1	A
Aldrin	ND		ug/kg	1.77	0.622	1	A
Heptachlor epoxide	ND		ug/kg	3.31	0.994	1	A
Endrin	ND		ug/kg	0.736	0.302	1	A
Endrin aldehyde	ND		ug/kg	2.21	0.773	1	A
Endrin ketone	ND		ug/kg	1.77	0.455	1	A
Dieldrin	ND		ug/kg	1.10	0.552	1	A
4,4'-DDE	2.06		ug/kg	1.77	0.409	1	A
4,4'-DDD	4.76		ug/kg	1.77	0.630	1	B
4,4'-DDT	2.78		ug/kg	1.77	1.42	1	B
Endosulfan I	ND		ug/kg	1.77	0.417	1	A
Endosulfan II	ND		ug/kg	1.77	0.590	1	A
Endosulfan sulfate	ND		ug/kg	0.736	0.350	1	A
Methoxychlor	ND		ug/kg	3.31	1.03	1	A
Toxaphene	ND		ug/kg	33.1	9.28	1	A
cis-Chlordane	ND		ug/kg	2.21	0.615	1	A
trans-Chlordane	1.49	J	ug/kg	2.21	0.583	1	A
Chlordane	ND		ug/kg	14.7	5.85	1	A

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-07 Date Collected: 07/21/23 15:00

Client ID: SB13_2-4 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/26/23 13:53
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 07/25/23 14:04
Cleanup Method: EPA 3620B
Cleanup Date: 07/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05-07 Batch: WG1807534-1						
Delta-BHC	ND		ug/kg	1.51	0.295	A
Lindane	ND		ug/kg	0.628	0.281	A
Alpha-BHC	ND		ug/kg	0.628	0.178	A
Beta-BHC	ND		ug/kg	1.51	0.572	A
Heptachlor	ND		ug/kg	0.754	0.338	A
Aldrin	ND		ug/kg	1.51	0.531	A
Heptachlor epoxide	ND		ug/kg	2.83	0.848	A
Endrin	ND		ug/kg	0.628	0.258	A
Endrin aldehyde	ND		ug/kg	1.88	0.660	A
Endrin ketone	ND		ug/kg	1.51	0.388	A
Dieldrin	ND		ug/kg	0.943	0.471	A
4,4'-DDE	ND		ug/kg	1.51	0.349	A
4,4'-DDD	ND		ug/kg	1.51	0.538	A
4,4'-DDT	ND		ug/kg	1.51	1.21	A
Endosulfan I	ND		ug/kg	1.51	0.356	A
Endosulfan II	ND		ug/kg	1.51	0.504	A
Endosulfan sulfate	ND		ug/kg	0.628	0.299	A
Methoxychlor	ND		ug/kg	2.83	0.880	A
Toxaphene	ND		ug/kg	28.3	7.92	A
cis-Chlordane	ND		ug/kg	1.88	0.525	A
trans-Chlordane	ND		ug/kg	1.88	0.498	A
Chlordane	ND		ug/kg	12.6	5.00	A

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/26/23 13:53
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 07/25/23 14:04
Cleanup Method: EPA 3620B
Cleanup Date: 07/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05-07 Batch: WG1807534-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	90		30-150	B

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/30/23 11:05
Analyst: MMG

Extraction Method: EPA 3510C
Extraction Date: 07/28/23 14:56

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1809095-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/30/23 11:05
Analyst: MMG

Extraction Method: EPA 3510C
Extraction Date: 07/28/23 14:56

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1809095-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	31		30-150	A
Decachlorobiphenyl	31		30-150	A
2,4,5,6-Tetrachloro-m-xylene	31		30-150	B
Decachlorobiphenyl	30		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05-07 Batch: WG1807534-2 WG1807534-3									
Delta-BHC	77		75		30-150	3		30	A
Lindane	78		75		30-150	4		30	A
Alpha-BHC	75		72		30-150	4		30	A
Beta-BHC	75		73		30-150	3		30	A
Heptachlor	81		79		30-150	3		30	A
Aldrin	78		75		30-150	4		30	A
Heptachlor epoxide	71		69		30-150	3		30	A
Endrin	81		80		30-150	1		30	A
Endrin aldehyde	60		59		30-150	2		30	A
Endrin ketone	76		75		30-150	1		30	A
Dieldrin	84		81		30-150	4		30	A
4,4'-DDE	76		73		30-150	4		30	A
4,4'-DDD	81		79		30-150	3		30	A
4,4'-DDT	82		80		30-150	2		30	A
Endosulfan I	75		73		30-150	3		30	A
Endosulfan II	78		76		30-150	3		30	A
Endosulfan sulfate	62		63		30-150	2		30	A
Methoxychlor	80		81		30-150	1		30	A
cis-Chlordane	69		66		30-150	4		30	A
trans-Chlordane	82		79		30-150	4		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05-07 Batch: WG1807534-2 WG1807534-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		81		30-150	A
Decachlorobiphenyl	79		80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		86		30-150	B
Decachlorobiphenyl	81		79		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1809095-2 WG1809095-3									
Delta-BHC	45		72		30-150	**46**	Q	20	A
Lindane	46		75		30-150	**49**	Q	20	A
Alpha-BHC	39		72		30-150	**60**	Q	20	A
Beta-BHC	41		70		30-150	**51**	Q	20	A
Heptachlor	37		62		30-150	**52**	Q	20	A
Aldrin	31		53		30-150	**53**	Q	20	A
Heptachlor epoxide	42		68		30-150	**48**	Q	20	A
Endrin	40		66		30-150	**49**	Q	20	A
Endrin aldehyde	33		52		30-150	**45**	Q	20	A
Endrin ketone	44		65		30-150	**39**	Q	20	A
Dieldrin	43		71		30-150	**49**	Q	20	A
4,4'-DDE	37		61		30-150	**50**	Q	20	A
4,4'-DDD	42		71		30-150	**51**	Q	20	A
4,4'-DDT	42		66		30-150	**44**	Q	20	A
Endosulfan I	40		66		30-150	**49**	Q	20	A
Endosulfan II	42		67		30-150	**46**	Q	20	A
Endosulfan sulfate	41		61		30-150	**39**	Q	20	A
Methoxychlor	44		66		30-150	**39**	Q	20	A
cis-Chlordane	35		57		30-150	**47**	Q	20	A
trans-Chlordane	44		69		30-150	**45**	Q	20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1809095-2 WG1809095-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	33		53		30-150	A
Decachlorobiphenyl	36		50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	34		52		30-150	B
Decachlorobiphenyl	36		49		30-150	B

METALS

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-01 Date Collected: 07/21/23 11:00

Client ID: TMW14_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	67.0		mg/l	0.0100	0.00327	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Antimony, Total	0.00081	J	mg/l	0.00400	0.00042	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Arsenic, Total	0.01674		mg/l	0.00050	0.00016	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Barium, Total	0.3755		mg/l	0.00050	0.00017	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Beryllium, Total	0.00137		mg/l	0.00050	0.00010	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Cadmium, Total	0.00043		mg/l	0.00020	0.00005	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Calcium, Total	25.8		mg/l	0.100	0.0394	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Chromium, Total	0.2901		mg/l	0.00100	0.00017	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Cobalt, Total	0.01850		mg/l	0.00050	0.00016	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Copper, Total	0.1410		mg/l	0.00100	0.00038	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Iron, Total	68.0		mg/l	0.0500	0.0191	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Lead, Total	0.03956		mg/l	0.00100	0.00034	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Magnesium, Total	10.6		mg/l	0.0700	0.0242	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Manganese, Total	1.125		mg/l	0.00100	0.00044	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Mercury, Total	0.00053		mg/l	0.00020	0.00009	1	07/24/23 19:51	07/30/23 19:23	EPA 7470A	1,7470A	DHL
Nickel, Total	0.09604		mg/l	0.00200	0.00055	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Potassium, Total	5.91		mg/l	0.100	0.0309	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Selenium, Total	0.0300		mg/l	0.00500	0.00173	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Silver, Total	0.00855		mg/l	0.00040	0.00016	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Sodium, Total	79.9		mg/l	0.100	0.0293	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Thallium, Total	0.00065	J	mg/l	0.00100	0.00014	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Vanadium, Total	0.04606		mg/l	0.00500	0.00157	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
Zinc, Total	0.1018		mg/l	0.01000	0.00341	1	07/24/23 18:36	07/27/23 15:52	EPA 3005A	1,6020B	SMV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	0.290		mg/l	0.010	0.003	1		07/27/23 15:52	NA	107,-	

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-01 Date Collected: 07/21/23 11:00

Client ID: TMW14_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0220		mg/l	0.0150	0.00327	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Antimony, Dissolved	0.00050	J	mg/l	0.00400	0.00042	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Arsenic, Dissolved	0.00057		mg/l	0.00050	0.00016	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Barium, Dissolved	0.09405		mg/l	0.00050	0.00017	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Cadmium, Dissolved	0.00006	J	mg/l	0.00020	0.00005	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Calcium, Dissolved	31.5		mg/l	0.100	0.0394	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Chromium, Dissolved	0.00042	J	mg/l	0.00100	0.00017	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Cobalt, Dissolved	0.00648		mg/l	0.00050	0.00016	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Copper, Dissolved	0.00268		mg/l	0.00100	0.00038	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Iron, Dissolved	6.92		mg/l	0.0500	0.0191	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Magnesium, Dissolved	8.40		mg/l	0.0700	0.0242	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Manganese, Dissolved	0.4518		mg/l	0.00100	0.00044	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	07/25/23 10:23	08/01/23 12:43	EPA 7470A	1,7470A	DHL
Nickel, Dissolved	0.02406		mg/l	0.00200	0.00055	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Potassium, Dissolved	3.35		mg/l	0.100	0.0309	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Sodium, Dissolved	103.		mg/l	0.100	0.0293	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP
Zinc, Dissolved	0.00546	J	mg/l	0.01000	0.00341	1	07/25/23 09:33	07/25/23 17:50	EPA 3005A	1,6020B	WKP

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-02 Date Collected: 07/21/23 13:00

Client ID: TMW11_072123 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	140.		mg/l	0.0100	0.00327	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Arsenic, Total	0.01542		mg/l	0.00050	0.00016	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Barium, Total	0.3775		mg/l	0.00050	0.00017	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Beryllium, Total	0.00241		mg/l	0.00050	0.00010	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Cadmium, Total	0.00039		mg/l	0.00020	0.00005	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Calcium, Total	7.14		mg/l	0.100	0.0394	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Chromium, Total	0.2104		mg/l	0.00100	0.00017	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Cobalt, Total	0.02598		mg/l	0.00050	0.00016	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Copper, Total	0.06932		mg/l	0.00100	0.00038	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Iron, Total	123.		mg/l	0.0500	0.0191	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Lead, Total	0.09776		mg/l	0.00100	0.00034	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Magnesium, Total	14.8		mg/l	0.0700	0.0242	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Manganese, Total	2.291		mg/l	0.00100	0.00044	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Mercury, Total	0.00068		mg/l	0.00040	0.00018	1	07/24/23 19:51	07/30/23 19:57	EPA 7470A	1,7470A	DHL
Nickel, Total	0.09832		mg/l	0.00200	0.00055	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Potassium, Total	9.07		mg/l	0.100	0.0309	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Selenium, Total	0.0537		mg/l	0.00500	0.00173	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Silver, Total	0.00035	J	mg/l	0.00040	0.00016	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Sodium, Total	51.1		mg/l	0.100	0.0293	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Thallium, Total	0.00218		mg/l	0.00100	0.00014	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Vanadium, Total	0.1122		mg/l	0.00500	0.00157	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
Zinc, Total	0.1406		mg/l	0.01000	0.00341	1	07/24/23 18:36	07/27/23 15:57	EPA 3005A	1,6020B	SMV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	0.210		mg/l	0.010	0.003	1		07/27/23 15:57	NA	107,-	

Project Name: PROJECT MAXIMUS
Lab Number: L2342329
Project Number: 170754501
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-02
Client ID: TMW11_072123
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/21/23 13:00
Date Received: 07/21/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.254		mg/l	0.0150	0.00327	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Arsenic, Dissolved	0.00042	J	mg/l	0.00050	0.00016	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Barium, Dissolved	0.08088		mg/l	0.00050	0.00017	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Cadmium, Dissolved	0.00006	J	mg/l	0.00020	0.00005	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Calcium, Dissolved	26.7		mg/l	0.100	0.0394	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Chromium, Dissolved	0.00089	J	mg/l	0.00100	0.00017	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Cobalt, Dissolved	0.00262		mg/l	0.00050	0.00016	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Copper, Dissolved	0.00199		mg/l	0.00100	0.00038	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Iron, Dissolved	0.425		mg/l	0.0500	0.0191	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Magnesium, Dissolved	8.60		mg/l	0.0700	0.0242	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Manganese, Dissolved	1.615		mg/l	0.00100	0.00044	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	07/25/23 10:23	08/01/23 13:00	EPA 7470A	1,7470A	DHL
Nickel, Dissolved	0.00590		mg/l	0.00200	0.00055	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Potassium, Dissolved	2.86		mg/l	0.100	0.0309	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Sodium, Dissolved	106.		mg/l	0.100	0.0293	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP
Zinc, Dissolved	0.00837	J	mg/l	0.01000	0.00341	1	07/25/23 09:33	07/25/23 17:54	EPA 3005A	1,6020B	WKP

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-03
Client ID: GWFB02_072123
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/21/23 13:30
Date Received: 07/21/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Barium, Total	0.00074		mg/l	0.00050	0.00017	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Calcium, Total	ND		mg/l	0.100	0.0394	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Copper, Total	ND		mg/l	0.00100	0.00038	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Iron, Total	ND		mg/l	0.0500	0.0191	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Manganese, Total	ND		mg/l	0.00100	0.00044	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/24/23 19:51	07/30/23 20:00	EPA 7470A	1,7470A	DHL
Nickel, Total	ND		mg/l	0.00200	0.00055	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Potassium, Total	ND		mg/l	0.100	0.0309	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Sodium, Total	ND		mg/l	0.100	0.0293	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	07/24/23 18:36	07/27/23 15:29	EPA 3005A	1,6020B	SMV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		07/27/23 15:29	NA	107,-	

Project Name: PROJECT MAXIMUS
Lab Number: L2342329
Project Number: 170754501
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-03
Client ID: GWFB02_072123
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/21/23 13:30
Date Received: 07/21/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Barium, Dissolved	0.00074		mg/l	0.00050	0.00017	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	07/25/23 10:23	08/01/23 13:03	EPA 7470A	1,7470A	DHL
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Sodium, Dissolved	ND		mg/l	0.100	0.0293	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	07/25/23 09:33	07/25/23 18:23	EPA 3005A	1,6020B	WKP

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-05
Client ID: SB21_5-7
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/21/23 09:43
Date Received: 07/21/23
Field Prep: None

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1890		mg/kg	8.53	2.30	2	07/25/23 22:40	07/28/23 11:34	EPA 3050B	1,6010D	DMB
Antimony, Total	ND		mg/kg	4.27	0.324	2	07/25/23 22:40	07/27/23 22:28	EPA 3050B	1,6010D	AMW
Arsenic, Total	1.28		mg/kg	0.853	0.178	2	07/25/23 22:40	07/27/23 22:28	EPA 3050B	1,6010D	AMW
Barium, Total	7.80		mg/kg	0.853	0.148	2	07/25/23 22:40	07/27/23 22:28	EPA 3050B	1,6010D	AMW
Beryllium, Total	0.111	J	mg/kg	0.427	0.028	2	07/25/23 22:40	07/27/23 22:28	EPA 3050B	1,6010D	AMW
Cadmium, Total	ND		mg/kg	0.853	0.084	2	07/25/23 22:40	07/27/23 22:28	EPA 3050B	1,6010D	AMW
Calcium, Total	5590		mg/kg	8.53	2.99	2	07/25/23 22:40	07/27/23 22:28	EPA 3050B	1,6010D	AMW
Chromium, Total	9.94		mg/kg	0.853	0.082	2	07/25/23 22:40	07/27/23 22:28	EPA 3050B	1,6010D	AMW
Cobalt, Total	10.4		mg/kg	1.71	0.142	2	07/25/23 22:40	07/27/23 22:28	EPA 3050B	1,6010D	AMW
Copper, Total	22.2		mg/kg	0.853	0.220	2	07/25/23 22:40	07/28/23 11:34	EPA 3050B	1,6010D	DMB
Iron, Total	8240		mg/kg	4.27	0.771	2	07/25/23 22:40	07/27/23 22:28	EPA 3050B	1,6010D	AMW
Lead, Total	44.0		mg/kg	4.27	0.229	2	07/25/23 22:40	07/27/23 22:28	EPA 3050B	1,6010D	AMW
Magnesium, Total	352		mg/kg	8.53	1.31	2	07/25/23 22:40	07/27/23 22:28	EPA 3050B	1,6010D	AMW
Manganese, Total	64.8		mg/kg	0.860	0.137	2	07/29/23 07:35	07/30/23 20:26	EPA 3050B	1,6010D	AMW
Mercury, Total	ND		mg/kg	0.071	0.046	1	07/26/23 00:08	07/30/23 18:11	EPA 7471B	1,7471B	TAA
Nickel, Total	7.47		mg/kg	2.13	0.206	2	07/25/23 22:40	07/27/23 22:28	EPA 3050B	1,6010D	AMW
Potassium, Total	158	J	mg/kg	213	12.3	2	07/25/23 22:40	07/28/23 11:34	EPA 3050B	1,6010D	DMB
Selenium, Total	ND		mg/kg	1.71	0.220	2	07/25/23 22:40	07/27/23 22:28	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.427	0.242	2	07/25/23 22:40	07/27/23 22:28	EPA 3050B	1,6010D	AMW
Sodium, Total	54.9	J	mg/kg	171	2.69	2	07/25/23 22:40	07/27/23 22:28	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.71	0.269	2	07/25/23 22:40	07/27/23 22:28	EPA 3050B	1,6010D	AMW
Vanadium, Total	4.33		mg/kg	0.853	0.173	2	07/25/23 22:40	07/27/23 22:28	EPA 3050B	1,6010D	AMW
Zinc, Total	34.2		mg/kg	4.27	0.250	2	07/25/23 22:40	07/27/23 22:28	EPA 3050B	1,6010D	AMW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.70	J	mg/kg	0.889	0.178	1		07/27/23 22:28	NA	107,-	

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-06 Date Collected: 07/21/23 12:30

Client ID: SB19_5-7 Date Received: 07/21/23

Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3000		mg/kg	8.02	2.16	2	07/25/23 22:40	07/28/23 12:15	EPA 3050B	1,6010D	DMB
Antimony, Total	ND		mg/kg	4.01	0.305	2	07/25/23 22:40	07/27/23 22:54	EPA 3050B	1,6010D	AMW
Arsenic, Total	2.07		mg/kg	0.802	0.167	2	07/25/23 22:40	07/27/23 22:54	EPA 3050B	1,6010D	AMW
Barium, Total	11.5		mg/kg	0.802	0.140	2	07/25/23 22:40	07/27/23 22:54	EPA 3050B	1,6010D	AMW
Beryllium, Total	0.124	J	mg/kg	0.401	0.027	2	07/25/23 22:40	07/27/23 22:54	EPA 3050B	1,6010D	AMW
Cadmium, Total	ND		mg/kg	0.802	0.079	2	07/25/23 22:40	07/27/23 22:54	EPA 3050B	1,6010D	AMW
Calcium, Total	13800		mg/kg	8.02	2.81	2	07/25/23 22:40	07/27/23 22:54	EPA 3050B	1,6010D	AMW
Chromium, Total	12.2		mg/kg	0.802	0.077	2	07/25/23 22:40	07/27/23 22:54	EPA 3050B	1,6010D	AMW
Cobalt, Total	2.04		mg/kg	1.60	0.133	2	07/25/23 22:40	07/27/23 22:54	EPA 3050B	1,6010D	AMW
Copper, Total	4.98		mg/kg	0.802	0.207	2	07/25/23 22:40	07/28/23 12:15	EPA 3050B	1,6010D	DMB
Iron, Total	5640		mg/kg	4.01	0.724	2	07/25/23 22:40	07/28/23 12:15	EPA 3050B	1,6010D	DMB
Lead, Total	3.02	J	mg/kg	4.01	0.215	2	07/25/23 22:40	07/27/23 22:54	EPA 3050B	1,6010D	AMW
Magnesium, Total	9000		mg/kg	8.02	1.24	2	07/25/23 22:40	07/27/23 22:54	EPA 3050B	1,6010D	AMW
Manganese, Total	103		mg/kg	0.819	0.130	2	07/29/23 07:35	07/30/23 20:31	EPA 3050B	1,6010D	AMW
Mercury, Total	ND		mg/kg	0.071	0.046	1	07/26/23 00:08	07/30/23 18:21	EPA 7471B	1,7471B	TAA
Nickel, Total	4.35		mg/kg	2.00	0.194	2	07/25/23 22:40	07/27/23 22:54	EPA 3050B	1,6010D	AMW
Potassium, Total	319		mg/kg	200	11.6	2	07/25/23 22:40	07/28/23 12:15	EPA 3050B	1,6010D	DMB
Selenium, Total	0.299	J	mg/kg	1.60	0.207	2	07/25/23 22:40	07/27/23 22:54	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.401	0.227	2	07/25/23 22:40	07/27/23 22:54	EPA 3050B	1,6010D	AMW
Sodium, Total	57.8	J	mg/kg	160	2.53	2	07/25/23 22:40	07/27/23 22:54	EPA 3050B	1,6010D	AMW
Thallium, Total	0.365	J	mg/kg	1.60	0.253	2	07/25/23 22:40	07/27/23 22:54	EPA 3050B	1,6010D	AMW
Vanadium, Total	8.70		mg/kg	0.802	0.163	2	07/25/23 22:40	07/27/23 22:54	EPA 3050B	1,6010D	AMW
Zinc, Total	8.10		mg/kg	4.01	0.235	2	07/25/23 22:40	07/27/23 22:54	EPA 3050B	1,6010D	AMW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	11.8	J	mg/kg	0.832	0.166	1		07/27/23 22:54	NA	107,-	

Project Name: PROJECT MAXIMUS
Lab Number: L2342329
Project Number: 170754501
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-07
Client ID: SB13_2-4
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/21/23 15:00
Date Received: 07/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12200		mg/kg	8.94	2.41	2	07/25/23 22:40	07/28/23 12:20	EPA 3050B	1,6010D	DMB
Antimony, Total	ND		mg/kg	4.47	0.340	2	07/25/23 22:40	07/27/23 23:00	EPA 3050B	1,6010D	AMW
Arsenic, Total	4.83		mg/kg	0.894	0.186	2	07/25/23 22:40	07/27/23 23:00	EPA 3050B	1,6010D	AMW
Barium, Total	30.0		mg/kg	0.894	0.156	2	07/25/23 22:40	07/27/23 23:00	EPA 3050B	1,6010D	AMW
Beryllium, Total	0.397	J	mg/kg	0.447	0.030	2	07/25/23 22:40	07/27/23 23:00	EPA 3050B	1,6010D	AMW
Cadmium, Total	ND		mg/kg	0.894	0.088	2	07/25/23 22:40	07/27/23 23:00	EPA 3050B	1,6010D	AMW
Calcium, Total	1050		mg/kg	8.94	3.13	2	07/25/23 22:40	07/27/23 23:00	EPA 3050B	1,6010D	AMW
Chromium, Total	16.2		mg/kg	0.894	0.086	2	07/25/23 22:40	07/27/23 23:00	EPA 3050B	1,6010D	AMW
Cobalt, Total	5.35		mg/kg	1.79	0.148	2	07/25/23 22:40	07/27/23 23:00	EPA 3050B	1,6010D	AMW
Copper, Total	14.2		mg/kg	0.894	0.231	2	07/25/23 22:40	07/28/23 12:20	EPA 3050B	1,6010D	DMB
Iron, Total	15900		mg/kg	4.47	0.807	2	07/25/23 22:40	07/28/23 12:20	EPA 3050B	1,6010D	DMB
Lead, Total	14.4		mg/kg	4.47	0.240	2	07/25/23 22:40	07/27/23 23:00	EPA 3050B	1,6010D	AMW
Magnesium, Total	1910		mg/kg	8.94	1.38	2	07/25/23 22:40	07/27/23 23:00	EPA 3050B	1,6010D	AMW
Manganese, Total	178		mg/kg	0.860	0.137	2	07/29/23 07:35	07/30/23 20:35	EPA 3050B	1,6010D	AMW
Mercury, Total	0.079	J	mg/kg	0.083	0.054	1	07/26/23 00:08	07/30/23 18:24	EPA 7471B	1,7471B	TAA
Nickel, Total	8.94		mg/kg	2.23	0.216	2	07/25/23 22:40	07/27/23 23:00	EPA 3050B	1,6010D	AMW
Potassium, Total	303		mg/kg	223	12.9	2	07/25/23 22:40	07/28/23 12:20	EPA 3050B	1,6010D	DMB
Selenium, Total	0.562	J	mg/kg	1.79	0.231	2	07/25/23 22:40	07/27/23 23:00	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.447	0.253	2	07/25/23 22:40	07/27/23 23:00	EPA 3050B	1,6010D	AMW
Sodium, Total	187		mg/kg	179	2.82	2	07/25/23 22:40	07/27/23 23:00	EPA 3050B	1,6010D	AMW
Thallium, Total	0.579	J	mg/kg	1.79	0.282	2	07/25/23 22:40	07/27/23 23:00	EPA 3050B	1,6010D	AMW
Vanadium, Total	22.5		mg/kg	0.894	0.181	2	07/25/23 22:40	07/27/23 23:00	EPA 3050B	1,6010D	AMW
Zinc, Total	22.8		mg/kg	4.47	0.262	2	07/25/23 22:40	07/27/23 23:00	EPA 3050B	1,6010D	AMW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	16.2		mg/kg	0.911	0.182	1		07/27/23 23:00	NA	107,-	

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1806941-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Barium, Total	ND		mg/l	0.00050	0.00017	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Calcium, Total	ND		mg/l	0.100	0.0394	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Copper, Total	ND		mg/l	0.00100	0.00038	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Iron, Total	ND		mg/l	0.0500	0.0191	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Manganese, Total	ND		mg/l	0.00100	0.00044	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Nickel, Total	ND		mg/l	0.00200	0.00055	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Potassium, Total	ND		mg/l	0.100	0.0309	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Sodium, Total	ND		mg/l	0.100	0.0293	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	07/24/23 18:36	07/27/23 14:29	1,6020B	SMV

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1806943-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/24/23 19:51	07/30/23 19:17	1,7470A	DHL

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1807226-1										
Aluminum, Dissolved	0.0110	J	mg/l	0.0150	0.00327	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Antimony, Dissolved	0.00079	J	mg/l	0.00400	0.00042	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Barium, Dissolved	0.00044	J	mg/l	0.00050	0.00017	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Chromium, Dissolved	0.00019	J	mg/l	0.00100	0.00017	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Magnesium, Dissolved	0.0281	J	mg/l	0.0700	0.0242	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Sodium, Dissolved	0.0346	J	mg/l	0.100	0.0293	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP
Zinc, Dissolved	0.00724	J	mg/l	0.01000	0.00341	1	07/25/23 09:33	07/25/23 18:11	1,6020B	WKP

Prep Information

Digestion Method: EPA 3005A

Project Name: PROJECT MAXIMUS **Lab Number:** L2342329

Project Number: 170754501 **Report Date:** 08/01/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1807229-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	07/25/23 10:23	08/01/23 12:36	1,7470A	DHL

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05-07 Batch: WG1807477-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	07/25/23 22:40	07/28/23 09:56	1,6010D	DMB
Antimony, Total	ND		mg/kg	2.00	0.152	1	07/25/23 22:40	07/27/23 20:18	1,6010D	AMW
Arsenic, Total	ND		mg/kg	0.400	0.083	1	07/25/23 22:40	07/27/23 20:18	1,6010D	AMW
Barium, Total	ND		mg/kg	0.400	0.070	1	07/25/23 22:40	07/27/23 20:18	1,6010D	AMW
Beryllium, Total	ND		mg/kg	0.200	0.013	1	07/25/23 22:40	07/27/23 20:18	1,6010D	AMW
Cadmium, Total	ND		mg/kg	0.400	0.039	1	07/25/23 22:40	07/27/23 20:18	1,6010D	AMW
Calcium, Total	ND		mg/kg	4.00	1.40	1	07/25/23 22:40	07/27/23 20:18	1,6010D	AMW
Chromium, Total	ND		mg/kg	0.400	0.038	1	07/25/23 22:40	07/27/23 20:18	1,6010D	AMW
Cobalt, Total	ND		mg/kg	0.800	0.066	1	07/25/23 22:40	07/27/23 20:18	1,6010D	AMW
Copper, Total	ND		mg/kg	0.400	0.103	1	07/25/23 22:40	07/28/23 09:56	1,6010D	DMB
Iron, Total	ND		mg/kg	2.00	0.361	1	07/25/23 22:40	07/27/23 20:18	1,6010D	AMW
Lead, Total	ND		mg/kg	2.00	0.107	1	07/25/23 22:40	07/27/23 20:18	1,6010D	AMW
Magnesium, Total	ND		mg/kg	4.00	0.616	1	07/25/23 22:40	07/27/23 20:18	1,6010D	AMW
Nickel, Total	ND		mg/kg	1.00	0.097	1	07/25/23 22:40	07/27/23 20:18	1,6010D	AMW
Potassium, Total	ND		mg/kg	100	5.76	1	07/25/23 22:40	07/28/23 09:56	1,6010D	DMB
Selenium, Total	0.103	J	mg/kg	0.800	0.103	1	07/25/23 22:40	07/27/23 20:18	1,6010D	AMW
Silver, Total	ND		mg/kg	0.200	0.113	1	07/25/23 22:40	07/27/23 20:18	1,6010D	AMW
Sodium, Total	ND		mg/kg	80.0	1.26	1	07/25/23 22:40	07/27/23 20:18	1,6010D	AMW
Thallium, Total	ND		mg/kg	0.800	0.126	1	07/25/23 22:40	07/27/23 20:18	1,6010D	AMW
Vanadium, Total	ND		mg/kg	0.400	0.081	1	07/25/23 22:40	07/27/23 20:18	1,6010D	AMW
Zinc, Total	ND		mg/kg	2.00	0.117	1	07/25/23 22:40	07/27/23 20:18	1,6010D	AMW

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05-07 Batch: WG1807479-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	07/26/23 00:08	07/30/23 17:05	1,7471B	TAA

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05-07 Batch: WG1809258-1										
Manganese, Total	ND		mg/kg	0.400	0.064	1	07/29/23 07:35	07/30/23 18:15	1,6010D	AMW

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1806941-2								
Aluminum, Total	96		-		80-120	-		
Antimony, Total	90		-		80-120	-		
Arsenic, Total	104		-		80-120	-		
Barium, Total	102		-		80-120	-		
Beryllium, Total	106		-		80-120	-		
Cadmium, Total	109		-		80-120	-		
Calcium, Total	114		-		80-120	-		
Chromium, Total	100		-		80-120	-		
Cobalt, Total	100		-		80-120	-		
Copper, Total	106		-		80-120	-		
Iron, Total	106		-		80-120	-		
Lead, Total	111		-		80-120	-		
Magnesium, Total	94		-		80-120	-		
Manganese, Total	100		-		80-120	-		
Nickel, Total	101		-		80-120	-		
Potassium, Total	91		-		80-120	-		
Selenium, Total	101		-		80-120	-		
Silver, Total	107		-		80-120	-		
Sodium, Total	94		-		80-120	-		
Thallium, Total	109		-		80-120	-		
Vanadium, Total	99		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1806941-2					
Zinc, Total	105	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1806943-2					
Mercury, Total	88	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1807226-2					
Aluminum, Dissolved	112	-	80-120	-	
Antimony, Dissolved	92	-	80-120	-	
Arsenic, Dissolved	111	-	80-120	-	
Barium, Dissolved	105	-	80-120	-	
Beryllium, Dissolved	108	-	80-120	-	
Cadmium, Dissolved	107	-	80-120	-	
Calcium, Dissolved	120	-	80-120	-	
Chromium, Dissolved	104	-	80-120	-	
Cobalt, Dissolved	105	-	80-120	-	
Copper, Dissolved	106	-	80-120	-	
Iron, Dissolved	107	-	80-120	-	
Lead, Dissolved	118	-	80-120	-	
Magnesium, Dissolved	110	-	80-120	-	
Manganese, Dissolved	106	-	80-120	-	
Nickel, Dissolved	106	-	80-120	-	
Potassium, Dissolved	110	-	80-120	-	
Selenium, Dissolved	114	-	80-120	-	
Silver, Dissolved	106	-	80-120	-	
Sodium, Dissolved	110	-	80-120	-	
Thallium, Dissolved	106	-	80-120	-	
Vanadium, Dissolved	105	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1807226-2					
Zinc, Dissolved	115	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1807229-2					
Mercury, Dissolved	98	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-07 Batch: WG1807477-2 SRM Lot Number: D119-540					
Aluminum, Total	89	-	48-152	-	
Antimony, Total	124	-	10-190	-	
Arsenic, Total	105	-	83-117	-	
Barium, Total	102	-	82-118	-	
Beryllium, Total	101	-	83-117	-	
Cadmium, Total	101	-	82-117	-	
Calcium, Total	96	-	81-118	-	
Chromium, Total	112	-	82-119	-	
Cobalt, Total	108	-	83-117	-	
Copper, Total	111	-	84-116	-	
Iron, Total	107	-	60-140	-	
Lead, Total	104	-	82-118	-	
Magnesium, Total	102	-	76-124	-	
Nickel, Total	108	-	82-117	-	
Potassium, Total	95	-	70-130	-	
Selenium, Total	108	-	79-121	-	
Silver, Total	107	-	80-120	-	
Sodium, Total	96	-	74-126	-	
Thallium, Total	114	-	81-119	-	
Vanadium, Total	109	-	79-121	-	
Zinc, Total	105	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-07 Batch: WG1807479-2 SRM Lot Number: D119-540					
Mercury, Total	104	-	73-127	-	
Total Metals - Mansfield Lab Associated sample(s): 05-07 Batch: WG1809258-2 SRM Lot Number: D119-540					
Manganese, Total	84	-	82-118	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
Report Date: 08/01/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1806941-3 QC Sample: L2342067-01 Client ID: MS Sample												
Aluminum, Total	0.096	2	2.12	101		-	-		75-125	-		20
Antimony, Total	0.0014J	0.5	0.5148	103		-	-		75-125	-		20
Arsenic, Total	0.01631	0.12	0.1456	108		-	-		75-125	-		20
Barium, Total	0.06042	2	2.059	100		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.04998	100		-	-		75-125	-		20
Cadmium, Total	0.00013J	0.053	0.05711	108		-	-		75-125	-		20
Calcium, Total	155	10	207	**520**	Q	-	-		75-125	-		20
Chromium, Total	0.00045J	0.2	0.2018	101		-	-		75-125	-		20
Cobalt, Total	0.0012	0.5	0.5023	100		-	-		75-125	-		20
Copper, Total	0.0007J	0.25	0.2587	103		-	-		75-125	-		20
Iron, Total	2.35	1	3.66	**131**	Q	-	-		75-125	-		20
Lead, Total	0.00045J	0.53	0.5780	109		-	-		75-125	-		20
Magnesium, Total	62.6	10	104	**414**	Q	-	-		75-125	-		20
Manganese, Total	0.2582	0.5	0.7953	107		-	-		75-125	-		20
Nickel, Total	0.0049	0.5	0.5204	103		-	-		75-125	-		20
Potassium, Total	7.59	10	19.0	114		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.119	99		-	-		75-125	-		20
Silver, Total	ND	0.05	0.05212	104		-	-		75-125	-		20
Sodium, Total	68.4	10	112	**436**	Q	-	-		75-125	-		20
Thallium, Total	0.0002J	0.12	0.1374	114		-	-		75-125	-		20
Vanadium, Total	ND	0.5	0.5088	102		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
Report Date: 08/01/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1806941-3 QC Sample: L2342067-01 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.5173	103	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1806943-3 QC Sample: L2342329-01 Client ID: TMW14_072123									
Mercury, Total	0.00053	0.005	0.00483	86	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
Report Date: 08/01/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1807226-3 WG1807226-4 QC Sample: L2200084-107 Client ID: MS Sample											
Aluminum, Dissolved	0.032	2	2.10	103		2.21	109		75-125	5	20
Antimony, Dissolved	0.0006J	0.5	0.4699	94		0.4970	99		75-125	6	20
Arsenic, Dissolved	0.0003J	0.12	0.1257	105		0.1282	107		75-125	2	20
Barium, Dissolved	0.1192	2	2.109	99		2.248	106		75-125	6	20
Beryllium, Dissolved	ND	0.05	0.05346	107		0.05488	110		75-125	3	20
Cadmium, Dissolved	ND	0.053	0.05511	104		0.05789	109		75-125	5	20
Calcium, Dissolved	62.1	10	68.9	**68**	Q	73.5	114		75-125	6	20
Chromium, Dissolved	0.0030	0.2	0.2047	101		0.2096	103		75-125	2	20
Cobalt, Dissolved	ND	0.5	0.5066	101		0.5259	105		75-125	4	20
Copper, Dissolved	0.0087	0.25	0.2631	102		0.2893	112		75-125	9	20
Iron, Dissolved	ND	1	0.979	98		1.00	100		75-125	2	20
Lead, Dissolved	ND	0.53	0.5453	103		0.5770	109		75-125	6	20
Magnesium, Dissolved	27.1	10	36.6	95		39.6	125		75-125	8	20
Manganese, Dissolved	0.0005J	0.5	0.5099	102		0.5291	106		75-125	4	20
Nickel, Dissolved	0.0006J	0.5	0.4989	100		0.5174	103		75-125	4	20
Potassium, Dissolved	2.00	10	12.6	106		13.1	111		75-125	4	20
Selenium, Dissolved	ND	0.12	0.131	109		0.125	104		75-125	5	20
Silver, Dissolved	ND	0.05	0.05136	103		0.05432	109		75-125	6	20
Sodium, Dissolved	64.7	10	42.4	**0**	Q	46.5	**0**	Q	75-125	9	20
Thallium, Dissolved	ND	0.12	0.1249	104		0.1323	110		75-125	6	20
Vanadium, Dissolved	ND	0.5	0.5042	101		0.5199	104		75-125	3	20

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
Report Date: 08/01/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1807226-3 WG1807226-4 QC Sample: L2200084-107 Client ID: MS Sample									
Zinc, Dissolved	0.0195	0.5	0.5246	101	0.5390	104	75-125	3	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1807229-3 QC Sample: L2342329-01 Client ID: TMW14_072123									
Mercury, Dissolved	ND	0.005	0.00480	96	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
Report Date: 08/01/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-07 QC Batch ID: WG1807477-3 QC Sample: L2342311-02 Client ID: MS Sample										
Aluminum, Total	7900	175	6940	**0**	Q	-	-	75-125	-	20
Antimony, Total	0.346J	43.8	40.2	92		-	-	75-125	-	20
Arsenic, Total	5.59	10.5	17.6	114		-	-	75-125	-	20
Barium, Total	71.1	175	224	87		-	-	75-125	-	20
Beryllium, Total	0.164J	4.38	3.98	91		-	-	75-125	-	20
Cadmium, Total	ND	4.64	4.64	100		-	-	75-125	-	20
Calcium, Total	25000	876	73900	**5580**	Q	-	-	75-125	-	20
Chromium, Total	29.4	17.5	42.7	76		-	-	75-125	-	20
Cobalt, Total	7.69	43.8	47.4	91		-	-	75-125	-	20
Copper, Total	29.9	21.9	52.4	103		-	-	75-125	-	20
Iron, Total	15500	87.6	12400	**0**	Q	-	-	75-125	-	20
Lead, Total	141	46.4	208	**144**	Q	-	-	75-125	-	20
Magnesium, Total	18600	876	49800	**3560**	Q	-	-	75-125	-	20
Nickel, Total	41.6	43.8	79.4	86		-	-	75-125	-	20
Potassium, Total	1940	876	2320	**43**	Q	-	-	75-125	-	20
Selenium, Total	0.432J	10.5	11.2	106		-	-	75-125	-	20
Silver, Total	ND	4.38	4.66	106		-	-	75-125	-	20
Sodium, Total	459	876	1240	89		-	-	75-125	-	20
Thallium, Total	0.993J	10.5	10.4	99		-	-	75-125	-	20
Vanadium, Total	34.9	43.8	67.5	**74**	Q	-	-	75-125	-	20
Zinc, Total	136	43.8	232	**219**	Q	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
Report Date: 08/01/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-07 QC Batch ID: WG1807479-3 QC Sample: L2342311-02 Client ID: MS Sample										
Mercury, Total	0.086	1.48	1.51	96		-	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 05-07 QC Batch ID: WG1809258-3 QC Sample: L2342311-02 Client ID: MS Sample										
Manganese, Total	201	43.6	321	**276**	Q	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
Report Date: 08/01/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1806941-4 QC Sample: L2342067-01 Client ID: DUP Sample						
Arsenic, Total	0.01631	0.01623	mg/l	0		20
Barium, Total	0.06042	0.05862	mg/l	3		20
Cadmium, Total	0.00013J	0.00012J	mg/l	NC		20
Chromium, Total	0.00045J	0.00045J	mg/l	NC		20
Lead, Total	0.00045J	0.00042J	mg/l	NC		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1806943-4 QC Sample: L2342329-01 Client ID: TMW14_072123						
Mercury, Total	0.00053	0.00052	mg/l	2		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1807229-4 QC Sample: L2342329-01 Client ID: TMW14_072123						
Mercury, Dissolved	ND	0.00012J	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 05-07 QC Batch ID: WG1807477-4 QC Sample: L2342311-02 Client ID: DUP Sample						
Aluminum, Total	7900	6940	mg/kg	13		20
Copper, Total	29.9	32.4	mg/kg	8		20
Potassium, Total	1940	1610	mg/kg	19		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
Report Date: 08/01/23

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-07 QC Batch ID: WG1807477-4 QC Sample: L2342311-02 Client ID: DUP Sample						
Antimony, Total	0.346J	ND	mg/kg	NC		20
Arsenic, Total	5.59	6.22	mg/kg	11		20
Barium, Total	71.1	74.2	mg/kg	4		20
Beryllium, Total	0.164J	0.187J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	25000	52000	mg/kg	**70**	Q	20
Chromium, Total	29.4	24.1	mg/kg	20		20
Cobalt, Total	7.69	6.36	mg/kg	19		20
Iron, Total	15500	13400	mg/kg	15		20
Lead, Total	141	150	mg/kg	6		20
Magnesium, Total	18600	33600	mg/kg	**57**	Q	20
Nickel, Total	41.6	33.0	mg/kg	**23**	Q	20
Selenium, Total	0.432J	0.265J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	459	416	mg/kg	10		20
Thallium, Total	0.993J	0.791J	mg/kg	NC		20
Vanadium, Total	34.9	26.1	mg/kg	**29**	Q	20
Zinc, Total	136	170	mg/kg	**22**	Q	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-07 QC Batch ID: WG1807479-4 QC Sample: L2342311-02 Client ID: DUP Sample						
Mercury, Total	0.086	0.104	mg/kg	20		20
Total Metals - Mansfield Lab Associated sample(s): 05-07 QC Batch ID: WG1809258-4 QC Sample: L2342311-02 Client ID: DUP Sample						
Manganese, Total	201	928	mg/kg	**129**	Q	20

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2342329
Report Date: 08/01/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-07 QC Batch ID: WG1807477-6 QC Sample: L2342311-02 Client ID: DUP Sample						
Aluminum, Total	7900	8020	mg/kg	2		20
Copper, Total	29.9	29.6	mg/kg	1		20
Total Metals - Mansfield Lab Associated sample(s): 05-07 QC Batch ID: WG1809258-6 QC Sample: L2342311-02 Client ID: DUP Sample						
Manganese, Total	201	256	mg/kg	**27**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-01
Client ID: TMW14_072123
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/21/23 11:00
Date Received: 07/21/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	07/27/23 02:25	07/27/23 14:13	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	07/22/23 09:00	07/22/23 09:56	1,7196A	OCF

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-02
Client ID: TMW11_072123
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/21/23 13:00
Date Received: 07/21/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	07/27/23 02:25	07/27/23 14:14	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	07/22/23 09:00	07/22/23 09:58	1,7196A	OCF

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-03
Client ID: GWFB02_072123
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/21/23 13:30
Date Received: 07/21/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	07/27/23 02:25	07/27/23 14:15	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	07/22/23 09:00	07/22/23 09:59	1,7196A	OCF

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-05
Client ID: SB21_5-7
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/21/23 09:43
Date Received: 07/21/23
Field Prep: None

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.0		%	0.100	NA	1	-	07/22/23 13:33	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	07/27/23 07:50	07/27/23 15:52	1,9010C/9012B	JER
Chromium, Hexavalent	0.244	J	mg/kg	0.889	0.178	1	07/24/23 13:30	07/25/23 15:12	1,7196A	DTH

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-06
Client ID: SB19_5-7
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/21/23 12:30
Date Received: 07/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.2		%	0.100	NA	1	-	07/22/23 13:33	121,2540G	ROI
Cyanide, Total	ND		mg/kg	0.96	0.20	1	07/27/23 07:50	07/27/23 15:55	1,9010C/9012B	JER
Chromium, Hexavalent	0.343	J	mg/kg	0.832	0.166	1	07/24/23 13:30	07/25/23 15:12	1,7196A	DTH

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

SAMPLE RESULTS

Lab ID: L2342329-07
Client ID: SB13_2-4
Sample Location: 1255 HEMPSTEAD TPKE, UNIONDALE, NY
Date Collected: 07/21/23 15:00
Date Received: 07/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	07/22/23 13:33	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	07/27/23 07:50	07/27/23 16:04	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	0.911	0.182	1	07/24/23 13:30	07/25/23 15:12	1,7196A	DTH

Project Name: PROJECT MAXIMUS
Project Number: 170754501
Lab Number: L2342329
Report Date: 08/01/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1806424-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	07/22/23 09:00	07/22/23 09:55	1,7196A	OCF
General Chemistry - Westborough Lab for sample(s): 05-07 Batch: WG1807014-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	07/24/23 13:30	07/25/23 15:12	1,7196A	DTH
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1808227-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	07/27/23 02:25	07/27/23 13:58	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 05-06 Batch: WG1808245-1										
Cyanide, Total	ND		mg/kg	0.86	0.18	1	07/27/23 07:50	07/27/23 15:36	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 07 Batch: WG1808254-1										
Cyanide, Total	ND		mg/kg	0.86	0.18	1	07/27/23 07:50	07/27/23 15:36	1,9010C/9012B	JER

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS

Project Number: 170754501

Lab Number: L2342329

Report Date: 08/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1806424-2								
Chromium, Hexavalent	96		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 05-07 Batch: WG1807014-2								
Chromium, Hexavalent	84		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1808227-2 WG1808227-3								
Cyanide, Total	95		89		85-115	7		20
General Chemistry - Westborough Lab Associated sample(s): 05-06 Batch: WG1808245-2 WG1808245-3								
Cyanide, Total	88		92		80-120	8		35
General Chemistry - Westborough Lab Associated sample(s): 07 Batch: WG1808254-2 WG1808254-3								
Cyanide, Total	88		92		80-120	8		35

Matrix Spike Analysis
Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
Report Date: 08/01/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1806424-4 QC Sample: L2342329-02 Client ID: TMW11_072123												
Chromium, Hexavalent	ND	0.1	0.094	94		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 05-07 QC Batch ID: WG1807014-4 QC Sample: L2342329-05 Client ID: SB21_5-7												
Chromium, Hexavalent	0.244J	1280	1290	101		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1808227-4 WG1808227-5 QC Sample: L2340482-05 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.206	103		0.176	88		80-120	16		20
General Chemistry - Westborough Lab Associated sample(s): 05-06 QC Batch ID: WG1808245-4 WG1808245-5 QC Sample: L2342310-01 Client ID: MS Sample												
Cyanide, Total	ND	11	10	92		11	100		75-125	10		35
General Chemistry - Westborough Lab Associated sample(s): 07 QC Batch ID: WG1808254-4 WG1808254-5 QC Sample: L2342300-06 Client ID: MS Sample												
Cyanide, Total	ND	11	11	98		6.6	**56**	Q	75-125	**50**	Q	35

Lab Duplicate Analysis

Batch Quality Control

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
Report Date: 08/01/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1806424-3 QC Sample: L2342329-01 Client ID: TMW14_072123						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 05-07 QC Batch ID: WG1806472-1 QC Sample: L2341979-09 Client ID: DUP Sample						
Solids, Total	94.9	94.5	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 05-07 QC Batch ID: WG1807014-6 QC Sample: L2342329-05 Client ID: SB21_5-7						
Chromium, Hexavalent	0.244J	0.200J	mg/kg	NC		20

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2342329-01A	Vial HCl preserved	B	NA		5.5	Y	Absent		NYTCL-8260(14)
L2342329-01B	Vial HCl preserved	B	NA		5.5	Y	Absent		NYTCL-8260(14)
L2342329-01C	Vial HCl preserved	B	NA		5.5	Y	Absent		NYTCL-8260(14)
L2342329-01D	Amber 120ml unpreserved	B	7	7	5.5	Y	Absent		NYTCL-8081(7)
L2342329-01E	Amber 120ml unpreserved	B	7	7	5.5	Y	Absent		NYTCL-8081(7)
L2342329-01F	Amber 120ml unpreserved	B	7	7	5.5	Y	Absent		NYTCL-8082-LVI(365)
L2342329-01G	Amber 120ml unpreserved	B	7	7	5.5	Y	Absent		NYTCL-8082-LVI(365)
L2342329-01H	Plastic 250ml NaOH preserved	B	>12	>12	5.5	Y	Absent		TCN-9010(14)
L2342329-01J	Amber 250ml unpreserved	B	7	7	5.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2342329-01K	Amber 250ml unpreserved	B	7	7	5.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2342329-01L	Plastic 250ml HNO3 preserved	B	<2	<2	5.5	Y	Absent		CU-6020S(180),V-6020S(180),K-6020S(180),SE-6020S(180),MN-6020S(180),MG-6020S(180),CO-6020S(180),ZN-6020S(180),BE-6020S(180),CR-6020S(180),CA-6020S(180),FE-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),BA-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2342329-01M	Plastic 250ml HNO3 preserved	B	<2	<2	5.5	Y	Absent		SE-6020T(180),BA-6020T(180),FE-6020T(180),TL-6020T(180),K-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),ZN-6020T(180),NA-6020T(180),CU-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28),MG-6020T(180),AL-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2342329-01N	Plastic 500ml unpreserved	B	NA		5.5	Y	Absent		HEXCR-7196(1)
L2342329-02A	Vial HCl preserved	B	NA		5.5	Y	Absent		NYTCL-8260(14)
L2342329-02B	Vial HCl preserved	B	NA		5.5	Y	Absent		NYTCL-8260(14)
L2342329-02C	Vial HCl preserved	B	NA		5.5	Y	Absent		NYTCL-8260(14)
L2342329-02D	Amber 120ml unpreserved	B	7	7	5.5	Y	Absent		NYTCL-8081(7)
L2342329-02E	Amber 120ml unpreserved	B	7	7	5.5	Y	Absent		NYTCL-8081(7)
L2342329-02F	Amber 120ml unpreserved	B	7	7	5.5	Y	Absent		NYTCL-8082-LVI(365)
L2342329-02G	Amber 120ml unpreserved	B	7	7	5.5	Y	Absent		NYTCL-8082-LVI(365)
L2342329-02H	Plastic 250ml NaOH preserved	B	>12	>12	5.5	Y	Absent		TCN-9010(14)
L2342329-02J	Amber 250ml unpreserved	B	7	7	5.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2342329-02K	Amber 250ml unpreserved	B	7	7	5.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2342329-02L	Plastic 250ml HNO3 preserved	B	7	<2	5.5	N	Absent		SE-6020S(180),V-6020S(180),CU-6020S(180),K-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),BA-6020S(180),TL-6020S(180),SB-6020S(180),AG-6020S(180),AS-6020S(180),HG-S(28),AL-6020S(180),CD-6020S(180)
L2342329-02M	Plastic 250ml HNO3 preserved	B	<2	<2	5.5	Y	Absent		FE-6020T(180),SE-6020T(180),TL-6020T(180),BA-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),CR-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),AG-6020T(180),AL-6020T(180),CO-6020T(180)
L2342329-02N	Plastic 500ml unpreserved	B	7	7	5.5	Y	Absent		HEXCR-7196(1)
L2342329-03A	Vial HCl preserved	C	NA		4.6	Y	Absent		NYTCL-8260(14)
L2342329-03B	Vial HCl preserved	C	NA		4.6	Y	Absent		NYTCL-8260(14)
L2342329-03C	Vial HCl preserved	C	NA		4.6	Y	Absent		NYTCL-8260(14)
L2342329-03D	Amber 120ml unpreserved	C	7	7	4.6	Y	Absent		NYTCL-8081(7)
L2342329-03E	Amber 120ml unpreserved	C	7	7	4.6	Y	Absent		NYTCL-8081(7)
L2342329-03F	Amber 120ml unpreserved	C	7	7	4.6	Y	Absent		NYTCL-8082-LVI(365)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2342329-03G	Amber 120ml unpreserved	C	7	7	4.6	Y	Absent		NYTCL-8082-LVI(365)
L2342329-03H	Plastic 250ml NaOH preserved	C	>12	>12	4.6	Y	Absent		TCN-9010(14)
L2342329-03J	Amber 250ml unpreserved	C	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2342329-03K	Amber 250ml unpreserved	C	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2342329-03L	Plastic 250ml HNO3 preserved	C	<2	<2	4.6	Y	Absent		K-6020S(180),V-6020S(180),CU-6020S(180),SE-6020S(180),MN-6020S(180),ZN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),PB-6020S(180),NA-6020S(180),NI-6020S(180),TL-6020S(180),BA-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),CD-6020S(180),AL-6020S(180),HG-S(28)
L2342329-03M	Plastic 250ml HNO3 preserved	C	<2	<2	4.6	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),AG-6020T(180),AL-6020T(180),MG-6020T(180),CD-6020T(180),HG-T(28),CO-6020T(180)
L2342329-03N	Plastic 500ml unpreserved	C	7	7	4.6	Y	Absent		HEXCR-7196(1)
L2342329-04A	Vial HCl preserved	C	NA		4.6	Y	Absent		NYTCL-8260(14)
L2342329-04B	Vial HCl preserved	C	NA		4.6	Y	Absent		NYTCL-8260(14)
L2342329-04C	Vial HCl preserved	C	NA		4.6	Y	Absent		NYTCL-8260(14)
L2342329-04D	Vial HCl preserved	C	NA		4.6	Y	Absent		NYTCL-8260(14)
L2342329-04E	Vial HCl preserved	C	NA		4.6	Y	Absent		NYTCL-8260(14)
L2342329-04F	Vial HCl preserved	C	NA		4.6	Y	Absent		NYTCL-8260(14)
L2342329-05A	Vial MeOH preserved	C	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2342329-05B	Vial water preserved	C	NA		4.6	Y	Absent	22-JUL-23 08:07	NYTCL-8260HLW(14)
L2342329-05C	Vial water preserved	C	NA		4.6	Y	Absent	22-JUL-23 08:07	NYTCL-8260HLW(14)
L2342329-05D	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),FE-TI(180),MG-TI(180),HG-T(28),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)

*Values in parentheses indicate holding time in days

Project Name: PROJECT MAXIMUS
Project Number: 170754501

Lab Number: L2342329
Report Date: 08/01/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2342329-05E	Plastic 120ml unpreserved	C	NA		4.6	Y	Absent		TS(7)
L2342329-05F	Glass 120ml/4oz unpreserved	C	NA		4.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2342329-05G	Glass 250ml/8oz unpreserved	C	NA		4.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2342329-06A	Vial MeOH preserved	C	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2342329-06B	Vial water preserved	C	NA		4.6	Y	Absent	22-JUL-23 08:07	NYTCL-8260HLW(14)
L2342329-06C	Vial water preserved	C	NA		4.6	Y	Absent	22-JUL-23 08:07	NYTCL-8260HLW(14)
L2342329-06D	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),K-TI(180),CA-TI(180),NA-TI(180),CD-TI(180)
L2342329-06E	Plastic 120ml unpreserved	C	NA		4.6	Y	Absent		TS(7)
L2342329-06F	Glass 120ml/4oz unpreserved	C	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2342329-06G	Glass 250ml/8oz unpreserved	C	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2342329-07A	Vial MeOH preserved	C	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2342329-07B	Vial water preserved	C	NA		4.6	Y	Absent	22-JUL-23 08:07	NYTCL-8260HLW(14)
L2342329-07C	Vial water preserved	C	NA		4.6	Y	Absent	22-JUL-23 08:07	NYTCL-8260HLW(14)
L2342329-07D	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2342329-07E	Plastic 120ml unpreserved	C	NA		4.6	Y	Absent		TS(7)
L2342329-07F	Glass 120ml/4oz unpreserved	C	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2342329-07G	Glass 250ml/8oz unpreserved	C	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2342329
Project Number:	170754501	**Report Date:**	08/01/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2342329
Project Number:	170754501	**Report Date:**	08/01/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2342329
Project Number:	170754501	**Report Date:**	08/01/23

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	PROJECT MAXIMUS	**Lab Number:**	L2342329
Project Number:	170754501	**Report Date:**	08/01/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 7/22/23

ALPHA Job #: L2342329

Client Information

Client: Langan
Address: 360 W 31st Street, 8th Floor
New York, NY 10001
Phone: (212) 479-5400
Fax:
Email: jarmstrong@langan.com

Project Information

Project Name: Project Maximus
Project Location: 1255 Hempstead Tpke, Uniondale, NY
Project #: 170754501
(Use Project name as Project #) ☐
Project Manager: Jennifer Armstrong
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☑ Same as Client Info
PO # 170754501

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

☐ These samples have been previously analyzed by Alpha

Other project specific requirements/comments:
Please CC kgioia@langan.com and datamanagement@langan.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 375/TCL VOCs	SVOCs	pesticides/herbicides	TAL/Part 375 metals	(incl. hex and tri chrom)	Total and Dissolved	PCBs	Total Bottle	Sample Specific Comments
42329-01	TMW14_072123	07/21/23	11:00	GW	GD	X	X	X	X	X	X	X		
02	TMW11_072123	"	13:00	GW	"	"	"	"	"	"	"	"		
03	GWFB02_072123	"	13:30	GW	"	"	"	"	"	"	"	"		
04	TB04_072123	"	—	GW	"	"	"	"	"	"	"	"		
				GW										
				GW										
				GW										
				GW										
				GW										

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
(Langan)	7/21/23 @	MSMA(ANL)	7/22 1733
MSMA(ANL)	7/21 2100		7/21 2100
	7/22 0130		7/22 0130
	7/22 0330		7/22/23 0330

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of

Date Rec'd in Lab: 7/22/23

ALPHA Job #: L2342329

Client Information

Client: Langan
Address: 360 W 31st Street, 8th Floor
New York, NY 10001
Phone: (212) 479-5400
Fax:
Email: jarmstrong@langan.com

Project Information

Project Name: Project Maximus
Project Location: 1255 Hempstead Tpke, Uniondale, NY
Project #: 170754501
(Use Project name as Project #) ☐
Project Manager: Jennifer Armstrong
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other

Billing Information

☑ Same as Client Info
PO # 170754501

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please CC kgioia@langan.com and datamanagement@langan.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 375/TCL VOCs	SVOCs, PCBs	pesticides/herbicides	TAL/Part 375 metals	(incl. hex and tri chrom)	Sample Specific Comments	Total # Bottles
42329-05	SB21-5-7	7/21/23	0943	S	KG	X	X	X	X	X		4
06	SB19-5-7		1230	S								
07	SB13-2-4		1500	S								
				S								
				S								
				S								
				S								
				S								
				S								

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	C	A	A	A	A
Preservative	C	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
MSMA(ANL)	7/21/23 @	MSMA(ANL)	7/22 1733
	7/21 2100		7/21 2100
	7/22 0130		7/22 0130
	7/22 0330		7/22/23 0330

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)