July 28, 2020

Director, Bureau of Water Compliance Attention: Edward Hampston New York State Department of Environmental Conservation 625 Broadway, 4th Floor Albany, NY 12233-3506

Agreement DEC Index No: CO 1-20170626-244

Bay Park Sewage Treatment Plant 2020 Q2 Quarterly Report

Dear Mr. Hampston:

We are submitting herewith our Quarterly Report for the period of April 1, 2020 through June 30, 2020.

Very truly yours,

Vincent Falkowski, P.E. Deputy Commissioner for Environmental Programs

c: NCDPW

Kenneth Arnold Edward Visone Jane Houdek Karen Fay Elisa Picca Hazen and Sawyer Mark Hanson Paul Saurer Eric Mills Tom Zakrzewski **ARCADIS** Peter Glus Greg Bazydola Maryanne Dioquino

DEC Cathy Haas Katie French Paul Harding Brian Lee Josh Lin Ryan Waldman

DEC Agreement Q2 2020 Report



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Background

On October 29th, 2012 Hurricane Sandy (a.k.a. Superstorm Sandy) pushed into the NY-NJ Metro area and caused widespread and unprecedented damage to coastal communities, low-lying residential neighborhoods, and public infrastructure. The Bay Park Sewage Treatment Plant (the "Bay Park STP"), owned by the Nassau County Department of Public Works (DPW), which serves close to half a million Nassau County residents, was damaged by flooding, power loss, and high winds. The Bay Park STP was partially submerged and the major electrical systems, pumping facilities, and processes were inundated with salt water from the nearby bay area. To correct the damage to the plant, improve the effluent quality and make the plant less vulnerable to future storms the County committed to construct improvements.

The construction of the improvements is catalogued in the Agreement with the New York State Department of Environmental Conservation CO 1-20170626-244 ("Agreement") in January 2018. In accordance with Section VI, Paragraphs A-C of the Agreement the DPW hereby submits to the New York State Department of Environmental Conservation (DEC) the Quarterly Report for the period of April 1, 2020 through June 30, 2020.

Quarterly reports are posted to the County website and can be found via this link: <u>https://www.nassaucountyny.gov/1882/Wastewater-Management-Program</u>

Executive Summary

The Bay Park Sewage Treatment Facility Agreement ("Agreement") Index No. CO 1-20170626-244, was entered into by the County of Nassau ("County") and the New York State Department of Environmental Conservation ("DEC") and became effective on January 11, 2018.

Pursuant to Section VI, Paragraph A of the Agreement, "The County (for work not performed by the State or its contractor) shall submit quarterly construction reports ("Quarterly Reports") to the DEC. The Quarterly Reports shall describe the actions which have been taken toward achieving compliance with this Agreement during the previous three-month period". The Agreement requires that this report provide:

- 1. A list of the County's design or construction contracts necessary to fulfill the requirements of compliance milestones of this Agreement as such milestones are set forth in the Appendices. This list shall identify, by percentage, the amount of the contract that has been completed;
- 2. A detailed description of: (a) the work performed pursuant to this Agreement during the reporting period, including the status of all milestones; (b) all anticipated activities for the next three-month period; and (c) the status and cost report for all EBPs required by this Agreement;
- 3. Information regarding unresolved delays encountered or anticipated that may affect the future schedule for implementation of the County s obligations under this Agreement, and efforts made to mitigate and/or cure those delays or anticipated delays;
- 4. A description of community relations activities during the reporting period and the activities anticipated for the next three months;
- 5. Any changes in key personnel; and
- 6. Any other issues with the potential to materially affect the projects set forth in this Agreement.

Additional information is included to provide a comprehensive representation of the County's efforts towards achieving compliance with the Agreement. This Quarterly Report updates the status and progress of DPW's compliance with the milestones set forth in the Agreement during the period from April 1, 2020 through June 30, 2020 ("Reporting Quarter").

COVID-19 work restrictions the County has implemented continue to limit the number of staff at any County facility.

Modification Request and Force Majeure Status

The following table lists modification requests made by the County and DEC responses to date.

Milestone	Agreement Date	Mod request letter date	Revised date requested	DEC Response Date	Modified Milestone Date ¹
Raw Sewage Pumping NTP	12/3/2018	8/24/2018	5/15/2019	9/12/2018	5/15/2019
Raw Sewage Pumping NTP	5/15/2019	5/3/2019	11/23/2019	7/1/2019	11/23/2019
Raw Sewage Pumping NTP	11/23.2019	3/27/2020	9/30/2020		
Raw Sewage Pumping CC	12/1/2020	8/24/2018	2/27/2022	9/12/2018	2/27/2022
Raw Sewage Pumping CC	2/27/2022	3/27/2020	9/15/2023		
Effluent Screening NTP	8/21/2018	8/24/2018	2/21/2019	9/12/2018	2/21/2019
Effluent Screening NTP	2/21/2019	5/3/2019	10/5/2019	7/1/2019	10/5/2019
Effluent Screening NTP	10/5/2019	3/27/2020	9/30/2020		
Effluent Screening CC	7/29/2020	8/24/2018	10/14/2021	9/12/2018	10/14/2021
Effluent Screening CC	10/14/2021	3/27/2020	5/22/2023	<i>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</i>	10/10/2021
Secondary Flood NTP	6/5/2018	8/24/2018	2/15/2019	9/12/2018	2/15/2019
Secondary Flood NTP	2/15/2019	5/3/2019	7/20/2019	7/1/2019	7/20/2019
Secondary Flood NTP	7/20/2019	12/31/2019	12/18/2019	//1/2019	//20/2019
Secondary Flood CC	7/26/2019	8/24/2018	8/15/2021	9/12/2018	- 8/15/2021
Secondary Flood CC	8/15/2020	12/31/2019	6/17/2022	9/12/2018	0/13/2021
Stormwater Pump		12/31/2019	0/17/2022	-	-
Stations CC	3/31/2018	8/24/2018	3/31/2019	9/12/2018	3/31/2019
3 Generator Operation CC	11/30/2018	8/24/2018	3/31/2019	9/12/2018	3/31/2019
3 Generator Operation CC	3/31/2019	1/10/20192	5/19/2019	2/22/2019	5/19/2019
East Avenue Station NTP	8/19/2018	8/24/2018	4/15/2019	9/12/2018	4/15/2019
East Avenue Station NTP	4/15/2019	5/3/2019	11/23/2019	7/1/2019	11/23/2019
East Avenue Station NTP	11/23/2019	3/27/2020	9/30/2020		
East Avenue Station CC	12/28/2019	8/24/2018	2/13/2021	9/12/2018	2/13/2021
East Avenue Station CC	2/13/2019	3/27/2020	9/22/2022		
Sidestream NTP	6/12/2018	8/24/2018	3/25/2019	9/12/2018	3/25/2019
Sidestream NTP	3/25/2019	5/3/2019	7/20/2019	7/1/2019	7/20/2019
Sidestream NTP	7/20/2019	12/31/2019	1/3/2020	-	-
Sidestream CC	12/28/2019	8/24/2018	9/25/2021	9/12/2018	7/8/2021
Sidestream CC	-	2/10/20202	-	-	-
Sidestream CC	7/8/2021	3/27/2020	10/3/2022		
Effluent Pumping CC	5/28/2020	10/19/2018 ²	1/15/2021	12/20/2018	1/15/2021
Level 1 BNR CC	-	5/3/2019 ²	-	7/1/2019	-
Level 1 BNR CC	-	8/5/2019 ²	5/14/2020	12/30/2019	5/14/2020
General Covid-19 FM		3/19/20202			

Table 1 – Modification	Requests and	Force Majeure	Notifications
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^{1.} Bold denotes current date, italic superseded

^{2.} Force Majeure

Notice of Violation Status

DEC issued a Notice of Violation on November 13, 2019, regarding missed milestones for issuing Notice to Proceed on several projects. Two of the three projects cited (Secondary Flood Protection and Sidestream Deammonification) have since been granted Notice to Proceed and the third (Effluent Screening Facility Improvements) received legislative approval on July 13, 2020. The County issued revised projections for all milestones on March 27, 2020 and continues in its efforts to issue a Notice to Proceed for the remaining project listed in the NOV as soon as possible.

Design Milestone Status

The following table lists the design milestones and statuses for Appendix A of the Agreement.

greement Date	Actual/Forecast
Date	
4/8/2018	1/5/2018 *
2/8/2018	3/2/2018 *
2	

*The table in Section VIII.0 of this report indicates certification of completed activities.

Project Notes:

All agreement design milestones have been completed and certifications accepted.

V.0 **Construction Milestone Status**

The following tables list the construction milestones and statuses for Appendices A and C of the Agreement. The milestone dates which are established in the Bay Park Agreement may be modified in the future if the County formally proposes an extension of the milestone, based upon its facility planning, and DEC formally accepts a projected delay.

Milestone	Agreement Date	Actual/ Forecast	
Raw Sewage Pumping Facility	11/23/2019	12/22/2020	
Effluent Screening and Disinfection	10/5/2019	9/30/2020	
Secondary Flood Protection	7/20/2019	12/18/2019 A	
East Avenue Ejector Station	11/23/2019	9/30/2020	
Sidestream Deammonification	7/20/2019	12/31/2019 A	

Table 3 – Construction NTP Milestones

Table 4 – Construction Completion Milestones				
Milestone	Agreement Date	Actual/ Forecast	% Complete	
1 Barnes Avenue – Baldwin	12/31/2019	10/4/2019 A	100%	
2 Raw Sewage Pumping Facility	2/27/2022	6/8/2023	0%	
3 Sludge Dewatering Facilities	12/15/2018	5/21/2018 A	100%	
4 Effluent Screening and Disinfection	10/14/2021	5/22/2023	0%	
5 Effluent Tide Pumping Facilities	1/15/2021	5/5/2020 A	100%	
6 Electrical Distribution Phase E1-E3	9/21/2019	7/25/2020	99%	
7 Secondary Flood Protection	8/15/2021	7/23/2021	22%	
8 Stormwater Pump Stations	3/31/2019	3/28/2019 A	100%	
9 Upgrade To 3 Generator Operation	5/19/2019	8/30/2019 A	100%	
10 Cedar Dr, Roosevelt et al PS	5/8/2018	1/12/2018 A	100%	
11 Wantagh, Newbridge et al PS	4/25/2018	2/12/2018 A	100%	
12 Ocean Ave, Mill Rd et al PS	12/5/2018	8/17/2018 A	100%	
13 Inwood, Doughty et al PS	7/4/2019	5/13/2019 A	100%	
14 Lawrence & Sage Lake PS	8/30/2018	8/13/2018 A	100%	
15 East Avenue Ejector Station	2/13/2021	9/22/2022	0%	
16 Level 1 BNR	5/14/2020	4/30/2020 A	100%	
17 Sidestream Deammonification	7/8/2021	10/3/2022	20%	

* The table in Section VIII.0 of this report indicates certification of completed activities.

Project Notes:

<u>1. Barnes Avenue – Baldwin</u>

Substantial completion was granted November 22, 2019 and milestone certification accepted by DEC February 25, 2020.

Progress This Quarter:

• Continued punch list work and project close-out

Expected Progress Next Quarter:

• Continue project close out

2. Raw Sewage Pumping Facility

Progress This Quarter:

The County continued with the award process, however prior to the projected achievement of legislative approval on July 13, 2020, the low bid contractor withdrew from consideration. The County has determined that the second low bidder is willing to perform for their original bid price and is now proceeding with the award process.

Expected Progress Next Quarter:

The County will be continuing with the award process with goal of a Q1 2021 NTP.

3. Sludge Dewatering Facilities

This project is nearing final completion.

Progress This Quarter:

• Continue project closeout activities.

Expected Progress Next Quarter:

• Project closeout

4. Effluent Screening and Disinfection

Progress This Quarter:

Continued the award process for the construction and construction management contracts. The construction contract was approved by the County legislature and a Notice of Award was issued to the contractor.

Expected Progress Next Quarter

The County will be continuing with the award process, of which Comptroller and NIFA approval remains, with the goal of a Q3 2020 NTP.

5. Effluent Tide Pumping Facilities

The project achieved substantial completion April 30, 2020, before the milestone date.

Progress This Quarter:

- Progressed the installation of electrical conduits, wires, and cables in EPF.
- Progressed lightning protection system & grounding system.
- Progressed checkout, yellow & blue tag test of SCAC units.
- Progressed pull & terminate wire change order No. 5 duct heater units.
- Continued to deliver Spare Parts and O&M Manuals.
- Progressed HVAC ductwork connection to H&V.
- Progressed conduit & wiring installation to H&V Unit, terminate & startup.
- Progressed installation of conduit tags, seal conduits at electrical Manholes.
- Continued Painting/Coating Walls, Piping, & Floor in EPF.
- Completed Bridge Crane final checkout and Training.
- Progressed wiring Hot Water Heaters,
- Progressed HVAC Controls checkout
- Completed installation of Air Compressor overload component
- Completed OHSA Railing by check valve

Expected Progress Next Quarter

- Complete H&V unit pipe connection & insulation.
- Complete all HVAC testing & turnover
- Complete checkout HVAC Controls
- Complete Blue Tag testing electrical systems
- Complete Floor coating and all painting
- Perform final checkout & startup of Fire Alarm System.
- Complete all conduit & wiring tagging.
- Finalize Lightening Protection System & Final Inspection
- Schedule SCAC & H&V Unit training
- Finish wiring Hot Water Heaters
- Complete lightning protection system & inspection.
- Install roof fall protection signage.
- Submit effluent building spares, O&M, and training.

6. Electrical Distribution System Phases E1-E3

Phases E1 and E2 were completed 10/19/2016 and 9/29/2017, respectively. The transition from the old main substation to the new substation under Contract E3 is complete. The E3 project has continued beyond the milestone date of September 21, 2019, but is now near substantial completion, projected for July 25, 2020. A milestone modification request was submitted 3/27/20.

Progress This Quarter:

- Continued check-up for the Elevator and schedule start-up, MSS,
- Completed demolition of old USS-1 in Generator Bldg,
- Continued installation of conduit labels,

- Continued final clean up throughout the site,
- Continued seeding and watering throughout the site,
- Continued Spare Parts turn-over,
- Continued training and O&M turnover,
- Continued to work on punch list (Generators, HVAC, Plumbing and Electrical)

Expected Progress Next Quarter:

- Complete Elevator Start up,
- Complete conduit labeling,
- Turn over outstanding Spare Parts,
- Complete turn over outstanding O&Ms,
- Complete varies training.

7. Secondary Flood Protection

Notice to Proceed was granted at the end of 2019 and the project is progressing on the contract schedule. A milestone modification letter was submitted to DEC 12/31/19 requesting revised milestones based on the current schedule.

Progress This Quarter:

- Placed Concrete for the Tunnel Access Building Stripped Formwork.
- Placed Concrete for Exhaust Fans Nos. 3, 4, 5 and 6 Curb Extensions.
- Placed Concrete for the Flood walls inside Aeration Building No. 1.
- Placed Concrete for the Interior Knee Walls at the Return Activated Sludge Building.
- Placed Concrete for the Exterior Flood Wall Foundation at the Return Activated Sludge Building.
- Completed Masonry Block and Brick Mockup.
- Installed Conduit and Wiring for Exhaust Fans Nos 1, 2 and 5 and reinstalled fans.
- Started Mechanical Piping Offsets for the Main Building Basement Flood Walls.
- Installed masonry blocks and brick for the exterior wall window openings at Aeration Building No. 1.
- Removed Hot Water Return and Hot Water Supply from the Fire Protection Building for Offset.
- Began Excavation for the Installation of the Flood Wall at the Fire Protection Building.
- Began Installing Electrical Conduit and Disconnects for Exhaust Fans Nos.1 and 2.
- Install Flood Vents at Aeration Building#1 and Return Activated Sludge Building.
- Demolished sump pumps at various locations, temporary pumps installed as required.

Expected Progress Next Quarter:

- Remove Existing Electrical Conduit & Lighting Fixture to Existing North Service Tunnel at Main Building#23A.
- Install Piping Offset and Piping Insulation to Existing North Service Tunnel at Main Building#23A.

- Sawcut and Demolish Topping Slab to Existing South Service Tunnel at Main Building#23A.
- Start Work at Sludge Pump Station Control Building No. 3.
- Install Grounding Rods and Copper Grounding Grid for Tunnel Access Structure#5.
- Continue Masonry, Interior Painting and Roofing at Tunnel Access.
- Continue Rebar Installation, Place Exterior Flood Walls, and Masonry at Fire Protection Building.
- Continue Exterior Flood Walls, Interior Painting and Masonry at Return Activated Sludge Building.

8. Stormwater Pump Stations

The contract was granted substantial completion June 24, 2019 and milestone certification was granted in Q2 2019.

Progress This Quarter:

- Continued Demobilizing the Staging Area.
- Continued to Complete Punch List Items.

Expected Progress Next Quarter:

• Continue punch list and incomplete work items

9. Upgrade to 3 Simultaneous Generator Operation

The project achieved substantial completion on August 30, 2019. Milestone certification has been submitted and accepted by DEC.

Progress This Quarter:

• Continued punch list work.

Expected Progress Next Quarter:

• Continue punch list work and close out activities.

10. Cedar Dr., Roosevelt Ave, Whitewood, Biltmore and Alhambra Pump Stations

Construction is complete, milestone has been met, certification of completion has been submitted and accepted.

11. Wantagh, Newbridge, Merrick & Ray St Pump Stations

Construction is complete, milestone has been met, certification of completion has been submitted.

12. Ocean Ave, Mill Rd, Woodmere Blvd & Longacre Ave Pump Stations

Construction is complete, milestone has been met, certification of completion has been submitted.

13. Inwood, Doughty Blvd, Bayview Ave & Roslyn Rd Pump Stations

Construction is complete, milestone has been met, certification of completion has been submitted.

14. Lawrence and Sage Lake Pump Stations

Construction is complete, milestone has been met, certification of completion has been submitted and accepted.

15. East Avenue Ejector Station

The construction and construction management services contracts were advertised on March 8, 2019. Bids and proposals were received in April, 2019, and the County was proceeding with the award process to the low bidder. On September 20, 2019, the low bidder withdrew from consideration as they had made a gross error in their bid having omitted the bypass pumping required to execute the work. The County has progressed the award process to the second low bidder, which obtained legislative approval on July 13, 2020. A modification request was issued to DEC March 27, 2020.

16. Level 1 BNR

The project was granted substantial completion on April 30, 2020, and milestone certification was submitted May 5, 2020.

Progress This Quarter:

- Punchlist work in progress.
- Started Repair / Warranty work for Mixers in Passes 2B, 3B, and 3C.

Expected Progress Next Quarter:

• Punchlist and As-build Record Drawings.

<u>17. Sidestream Deammonification</u>

A milestone modification letter was submitted to DEC 12/31/19 requesting revised milestones based on the current schedule. A force majeure notification was submitted 2/10/20 regarding the unforeseen subsurface conditions encountered in the field which required a redesign of the pile support system for the EQ and Deamonification Tanks. The redesign has been completed and pile installation has begun.

Progress This Quarter:

- Continued underground utility relocation.
- Continued submission of general conditions items and technical submittals.
- Continued site excavation.
- Continued plumbing and electric layout within sludge dewatering building.
- Continued Test Piles installation and testing.
- Continued plumbing installations within the sludge dewatering building.
- Installed deep wells for dewatering system.

Expected Progress Next Quarter:

• Continue mechanical and plumbing work.

- Start production pile installation.
- Continue site excavation.
- Installation and operation of Dewatering system.

Inter Municipal Agreement

Paragraph V.G of an administrative Consent Order (#C01- 20151020-142) between DEC and the City of Long Beach (City) requires the City to enter into an Inter-municipal Agreement (IMA) with the County. The County was to enter into a fully executed IMA with the City within 180 days of the effective date of this Agreement. The IMA is to address the diversion of wastewater from the WWTP currently owned and operated by the City to the Bay Park WWTP.

The IMA was executed by both parties on July 26, 2019.

The County has initiated the design phase for the Long Beach WPCP Consolidation. The design of the influent pump station conversion is near completion and is projected to advertise July 31, 2020. The force main design is at the 30% stage and is projected to advertise in October of 2020. The force main route has been defined sufficiently to define the parkland alienation that will occur in East Rockaway and Long Beach, and both the County and City passed the Home Rule messages in support of the parkland alienation State legislation, which was subsequently passed by the NY Assembly and Senate at the beginning of Q3 2020.

The County is continuing the procurement of a consultant to provide a feasibility study for integrating Point Lookout, NY, currently on septic systems, into the Long Beach sewer system. An RFP was issued, proposals received, and a consultant selected. The award process will continue in the next quarter.

In anticipation of taking over the City's wastewater collection system infrastructure, the County has also issued an RFP to procure a consultant to perform a full assessment of the inventory to be acquired. In the last quarter the RFP was issued, proposals received, and the selection process is ongoing. The County will advance the selection and award of this consultant in the next quarter.

As per discussion with the State, the County anticipates connecting the City collection system to Bay Park in advance of the Long Beach administrative consent order date in June of 2024. Milestones regarding the connection of Long Beach to Bay Park will be proposed after the connection route has been approved.

Nitrogen Interim Limit Schedule of Compliance

The milestones for the Interim Nitrogen Limits are listed in the following table.

Description of Work for Nitrogen Removal Project	Completion Date
Submit an approvable BNR Operation and Maintenance (O&M) Plan	1/8/2020
Begin operation of the 6-month start-up period	6/1/2020
Begin the 12-month performance period	1/1/2021
End 12-month performance period	1/1/2022
Submit performance data	4/1/2022

These milestones will be reviewed as the Sidestream Deammonification and Level 1 BNR projects progress through the construction phase. The milestones in Table 5 reflect those for the Level 1 BNR Improvements and a separate program will be developed for the Sidestream Project upon commencement of construction for that project.

The BNR O&M Plan was submitted to DEC on the January 8, 2020 milestone. Comments were received from DEC and upon resolution the plan was accepted April 13, 2020. The startup period was initiated on June 1, 2020 as per the schedule.

Diversion Project

The milestones for the Diversion Project are listed in the following table:

Description of Work	Completion Date
Slip lining of aqueduct along Sunrise Highway	November 2019
Diversion Project Report	January 2018
Design Start	TBD
DesignCompletion	TBD
Impact Report	TBD
Notice to Proceed to Construction	TBD
Construction Completion and Commence Diversion of Influent Wastewater from Bay Park WWTP to Cedar Creek WWTP	June 2024

Table 6 – Diversion Project Milestones

Progress This Quarter:

RFP was issued to the three teams selected from the qualifications review process. Alternative Technical Concepts (ATCs) were presented by each proposer and reviewed by the County and the State. Addenda were issued in response to questions from the proposers. Community outreach was developed and conducted virtually.

Expected Progress Next Quarter:

Meetings will continue with the proposers through August as they develop their proposals. Technical and price proposals are to be submitted September 14, 2020.

Project Milestones:

Proposed milestones were issued by the County to DEC on March 27, 2020 and are currently under review.

Environmental Benefit Projects

The County's Cedar Creek Program Manager has engaged a design sub consultant and a technical design report presenting options was produced and received by DPW. It is currently under review.

x.0 Certification of Completed Activities

The following table lists the activities for which certification of compliance were submitted.

Table 7 – Comp			
Milestone	Date	Certification	Certification
	Completed	Submitted	Accepted
Effluent Screening and Disinfection - Design	1/5/2018	7/5/2018	9/13/2018
Completion			
East Avenue Ejector Station - Design Comple-	3/2/2018	7/5/2018	9/13/2018
tion			
Cedar Dr, Roosevelt et al PS - Construction	1/12/2018	7/5/2018	11/27/2018
Completion			
Wantagh, Newbridge et al PS – Construction	2/12/2018	7/5/2018	11/27/2018
Completion			
Sage Lake and Lawrence PS – Construction Completion	8/13/2018	8/24/2018	11/27/2018
Ocean Ave, Mill Road et al PS – Construction			
Completion	8/17/2018	9/19/2018	11/27/2018
Sludge Dewatering Facilities – Construction	10/10/2010		1/1/2010
Completion	10/12/2018	10/24/2018	1/4/2019
Inwood, Doughty et al PS – Construction Com-	2/19/2019	2/28/2019	5/1/2010
pletion	2/19/2019	2/28/2019	5/1/2019
Stormwater Pump Stations – Construction Com-	3/28/2019	4/3/2019	4/19/2019
pletion	5/20/2017	4/3/2017	4/1//2017
Upgrade to 3 Generator Operation – Construc-	8/30/2019	9/12/2019	11/7/2019
tion Completion		, , _ , _ , _ , _ , _ , , , , , , , , ,	
Barnes Ave-Baldwin	11/22/2019	11/25/2019	2/25/2020
Secondary Flood Protection – Notice to Proceed	12/18/19	12/31/19	
Sidestream Deammonification – Notice to Pro-	12/31/19	12/31/19	
ceed	12/31/17	12/31/17	
Level 1 BNR – Construction Complete	4/30/20	5/5/20	
Effluent Pumping Facility – Construction Com-	5/5/20	6/10/20	
plete	5/5/20	0/10/20	
Submit Approvable BNR O&M Plan	1/8/2020	1/8/2020	4/13/2020
Begin operation of the 6-month start-up period	6/1/2020	7/22/2020	
			1

Table 7 – Completed Activities	5
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Community Relations

No community meetings were held this quarter. The community outreach plan for the Bay Park Conveyance Project has been developed and engagement with municipalities has begun. Virtual project information sessions were initiated in July 2020 and outreach to property owners where easements may be required began in June 2020.

The NEPA Environmental Assessment (EA) outreach has been initiated, where the County is coordinating with Towns and Villages to direct their constituents to the Bay Park Conveyance project website to view the documents. Notification and start of 30-day public comment period for the EA was July 3, 2020.

XII.0 Attachments

1. Program Master Schedule

Park Master Schedule 200630	Orig Dur	Rem Dur	Start	Master Sch Finish	nedule % Comp	2013	2014		2015	201	16	2017	-	2018	20)19	202	0	2021	20)22	AS 0	of 30-	Jun-
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ay Park Master Schedule 200630																								
Existing Capital Projects																								
S3B119-05G - Generator Controls										++														
Design																								
Design - Generator Controls	74	0	21-Oct-13 A	22-Apr-14 A	100														111					
Procurement						۷																		
Procurement - Generator Controls	121	0	28-Oct-13 A	25-Feb-14 A	100																			
Construction							-			•••														
Temp Generators Off-line / Plant Power on House Generators	0	0		18-Nov-14 A	100			•																
Construction - Generator Controls	533	0	15-Nov-13 A	24-Jun-16 A	100																			
S3B120-01G - Influent Screening Facility Improvements																								
CM Contract							•																	
RFP / Advertise CM Services - Influent Screening	30	0	20-Apr-13 A	24-May-13 A	100																			
Award / NTP CMServices - h fluent Screening	40	0	25-May-13 A	06-Jan-14 A	100	÷													111					
Construction Contract											-													
Bid / Advertise - Influent Screening	40	0	14-Oct-13 A	26-Nov-13 A	100				[]].		71]								[]]]]
Award / NTP - Influent Screening	90	0	27-Nov-13 A	27-May-14 A	100																			
Construction - Influent Screening	913	0	27-May-14 A	09-Jun-17 A	100																			
S3B120-02G - Grit Removal Facility Improvements						•																		
CM Contract						-																		
RFP / Advertise CM Services - Grit Removal	30	0	07-Oct-13 A	25-Oct-13 A	100	1																		
Award / NTP CMServices - Grit Removal	40	0	26-Oct-13 A	26-May-14 A	100																			
Construction Contract						-																		
75% to 100% Design / Bid Documents - Grit Removal	236	0	06-May-13 A	12-Feb-14 A	100																			
County Prepare Bid for Advertisement - Grit Removal	7	0	13-Feb-14 A	23-Feb-14 A	100		1																	
Bid / Advertise - Grit Removal	56	0	24-Feb-14 A	21-Mar-14 A	100		E .							* -										
Bid Opening - Grit Removal	1	0	25-Mar-14 A	25-Mar-14 A	100														111					
Award / NTP - Grit Removal	63	0	26-Mar-14 A	20-Apr-15 A	100			: .																
Construction - Grit Removal	821	0	20-Apr-15 A	18-Jul-17 A	100																			
S35100-01G - Cleaning & Repair of Digesters & Storage Tanks						•			7															
Construction						<u> </u>			▼															
Construction - Digester Cleaning	720	0	20-May-13 A	16-Apr-15 A	100																			
S35114-03G - Sludge Thickening Facility Improvements								1 1			•													
CM Contract						-																		
RFP / Advertise CM Services - Sludge Thickening	30	0	21-Aug-13 A	09-Sep-13 A	100																			
Award / NTP CMServices - Sludge Thickening	30	0	10-Sep-13 A	25-Mar-14 A	100			1-1-1			11		1		-	ii			111		i i i			titt
Construction Contract						-					•													
Award / NTP - Sludge Thickening	64	0	21-Aug-13 A	24-Oct-13 A	100																			
Construction - Sludge Thickening	730	0	28-Oct-13 A	30-Aug-16 A	100														111					
S35116-01G - Odor Control at Bay Park & Cedar Creek						-																		
CM Contract						-																		1
RFP / Advertise CM Services - Odor Control BP & CC WPCPs	20	0	21-Aug-13 A	09-Sep-13 A	100														111					
Award / NTP CMServices - Odor Control BP & CC WPCPs	30	0	10-Sep-13 A	10-Mar-14 A	100																			
Construction Contract																			111					
Award / NTP - Odor Control BP & CC WPCPs	64	0	21-Aug-13 A	23-Oct-13 A	100																			
Construction - Odor Control BP & CC WPCPs	730	0	28-Oct-13 A	07-Nov-15 A	100																			
Hurricane Sandy Projects						-																		÷÷
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FEMAApproval Process			10.4 10.1	01.0 : : : : :																				
FEMA 404 Grants	60	0	12-Aug-13 A	31-Oct-13 A	100																			
FEMA Finalize Damage Scope and Cost	45	0	12-Aug-13 A	19-Dec-13 A	100						-+													
Submit 406 HMP	45	0	12-Aug-13 A	19-Dec-13 A	100																			
FEMA 406 HMP Negotiation	90	0	06-Jan-14 A	15-Jan-14 A	100		•																	
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Remaining Level of Effort Actual Wo	ork			Page 1 c	of 11									TI					Λ Γ					
Actual Level of Effort Remaining	Work			5										П	d/	ze	11		Æ	くし	٩L	SIC		
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FEMA Scope and Cost Negotiation	90	0	20-Dec-13 A	15-Jan-14 A	100																					
S35121-01G/E - Final Settling Tank Rehabilitation						-		-	+ + +										111				11			
Construction Contract						-													111							
Award / NTP - Final Tank Rehabilitation	64	0	21-Aug-13 A	23-Oct-13 A	100	-					÷			+					r÷÷							!
Construction - Final Tank Rehabilitation	730	0	21-Aug-13 A 28-Oct-13 A	13-May-16 A	100	17.		1	1 1 1										11							
	730	0	20-001-13 A	13-IVIAy-16 A	100														111							
CM Contract		0	01.0.10.0	00.0 40.4	100		TH																			
RFP / Advertise CM Services - Final Tank Rehabilitation	30	0	21-Aug-13 A	09-Sep-13 A	100														111				11			
Award / NTP CMServices - Final Tank Rehabilitation	30	0	10-Sep-13 A	10-Feb-14 A	100																	<u></u>	<u></u>			
S35121-03G - Raw Sewage Pumping Facility								-					-													
CM Contract																										
RFP / Advertise CM Services - Raw Sewage Pumping Facility	29	0	01-Feb-19 A	01-Mar-19 A	100														11							
Award / NTP CMServices - Raw Sewage Pumping Facility	180	93	02-Mar-19 A	30-Sep-20	48											÷			111							
Design Process				,				+	+ + +	+	÷								111			1	111			:
Finalize Technical Memorandum - Influent Screens & RPS	45	0	21-Apr-14 A	30-Jun-14 A	100	1.1.										1						117				
Preliminary Design - Raw Sewage Pumping Facility	88	0	01-Jul-14 A	23-Feb-15 A	100			i																		
RFP / Advertise Final Design - Raw Sewage Pumping Facility	29	0	27-Feb-15 A	27-Mar-15 A	100														111							
Award / NTP Final Design - Raw Sewage Pumping Facility	90	0	30-Mar-15 A	01-Mar-16 A	100																					
Final Design - Raw Sewage Pumping Facility	210	0	01-Mar-16 A	26-Sep-16 A	100						-															
Bid / Construction	210		or mar rort	2000001011	100						<u>-</u>				-				<u></u>			<u>in tri</u>	÷.			
County Prepare Bid for Advertisement - Raw Sewage Pumping Facility	1	0	01-Feb-19 A	01-Feb-19 A	100																					
Bid / Advertise - Raw Sewage Pumping Facility	29	0	01-Feb-19 A	08-Mar-19 A	100														11							
Bid Opening - Raw Sewage Pumping Facility	1	0	12-Mar-19 A	12-Mar-19 A	100																					
Award / NTP - Raw Sewage Pumping Facility	180	0	13-Mar-19 A	12-Jun-20 A	100			4			Ļ. ļ			<u> </u>					<u></u>				<u>i. . </u>			
Award / NTP - Raw Sewage Pumping Facility to 2nd Low Bidder	180	175	13-Jun-20 A	21-Dec-20	3														111							
Construction - Raw Sewage Pumping Facility	899	899	22-Dec-20	08-Jun-23*	0													1		-			-			
S35121-09G - Sludge Dewatering						-									•	1			111							
CM Contract							+	•																		
RFP / Advertise CM Services - Dewatering Demo & Improvement	22	0	04-Apr-14 A	25-Apr-14 A	100		1																			
Award / NTP CMServices - Dewatering Dem o & Improvement	90	0	29-Apr-14 A	22-Sep-14 A	100						÷		· • • • • • •	†	1	4		t	111			r tri	(
Design Process						-		-	¥ 🗄				1						111			1	111			
Finalize Technical Memoran dum - De watering	45	0	12-Aug-13 A	22-Nov-13 A	100	1													111							
Preliminary Design - Dewatering	85	0	26-Sep-13 A	31-Dec-13 A	100																					
RFP / Advertise Final Design - Dewatering	16	0	10-Jan-14 A	07-Feb-14 A	100	1													11				11			
Award / NTP Final Design - Dewatering	80	0	08-Feb-14 A	07-Jul-14 A	100						÷			<u></u> <u>+</u> -					r÷÷			ŀ <u></u> ŀ∳				
	200	0	07-Jul-14 A		100																					
Final Design - Dewatering	200	0	07-Jul-14 A	03-Apr-15 A	100														11							
Centrifuge Pilot Testing	-	0	00 1 111		400																					
Alfa Laval Centrifuge Pilot	5		02-Jun-14 A	11-Jun-14 A	100														111				11			
GEA Westfalia Centrifuge Pilot	5		23-Jun-14 A	27-Jun-14 A	100														ŀ				(
Andritz Centrifuge Pilot	5		07-Jul-14 A	11-Jul-14 A	100																					
Flottweg Centrifuge Pilot	5		14-Jul-14 A	18-Jul-14 A	100		1												111							
Centrisys Centrifuge Pilot	5	0	21-Jul-14 A	25-Jul-14 A	100																					
Bid / Construction									*						-	11			11							
County Prepare Bid for Advertisement - Dewatering	7	0	03-Apr-15 A	09-Apr-15 A	100				1										111							
Bid / Advertise - Dewatering	29	0	10-Apr-15 A	15-May-15 A	100	111					177			1777		1	1				1111		1111		111	
Bid Opening - Dewatering	1	0	19-May-15 A	19-May-15 A	100														111							
Award / NTP - Dewatering	90	0	20-May-15 A	07-Dec-15 A	100														111				111			
Construction - Dewatering	913	0	07-Dec-15 A	21-May-19A	100						1				1				111				111			
S35121-09R - Sludge Dewatering Demolition				, , ,					•										111							
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Design Process 100% Design - Dewatering Demolition	00	0	02-Jan-14 A	31-Mar-14 A	100																					
	89	U	02-Jail-14 A	J I-IVIAI-14 A	100																		11			
Bid / Construction	-			00 A					•																	
County Prepare Bid for Advertisement - Dewatering Demolition	7		01-Apr-14 A	03-Apr-14 A	100																					
Bid / Advertise - Dewatering Demolition	29	0	04-Apr-14 A	09-May-14 A	100						ļ			ļ		ļ	ļļ						<u> </u>			
Bid Opening - Dewatering Demolition	1	0	13-May-14 A	13-May-14 A	100			1					1													
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Remaining Level of Effort Actual Work				Page 2 o	f 11									L		70		C	•		CA	D'	IC			
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Award / NTP - Dewatering Demolition	90	0	14-May-14 A	22-Sep-14 A	100																						
Construction - Dewatering Demolition	180	0	22-Sep-14 A	20-Mar-15 A	100			i de la companya de l																			
S35121-11G - Effluent Screening & Disinfection								1			1 1	1	1 1						1				• •				
CM Contract																₹.			-								
RFP / Advertise CM Services - Effluent Screening & Disinfection	29	0	01-Feb-19 A	01-Mar-19 A	100													1								11	
Award / NTP CMServices - Effluent Screening & Disinfection	180	93	02-Mar-19 A	30-Sep-20	48											ļ 📫											
Design Process								:					1 1	V													
Finalize Technical Memoran dum - Effluent Screening & Disinfection	45	0	15-Nov-13 A	13-Feb-14 A	100																						
Prepare Design RFP - Effluent Screening & Disinfection	85	0	30-Dec-13 A	29-Jan-16 A	100			-		-																	
RFP / Advertise Final Design - Effluent Screening & Disinfection	29	0	29-Jan-16 A	26-Feb-16 A	100													1								111	
Award / NTP Final Design - Effluent Screening & Disinfection	90	0	06-May-16 A	09-Jan-17 A	100						÷																
Final Design - Effluent Screening & Disinfection	300	0	09-Jan-17 A	05-Jan-18 A	100							<u> </u>															
Bid / Construction																											Ì
County Prepare Bid for Advertisement - Effluent Screening & Disinfection	7	0	01-Jul-18 A	07-Jul-18 A	100																						
Bid / Advertise - Effluent Screening & Disinfection	29	0	13-Jul-18 A	10-Aug-18 A	100																						
Bid Opening - Effluent Screening & Disinfection	1	0	14-Aug-18 A	14-Aug-18 A	100										ų.												
Award / NTP - Effluent Screening & Disinfection	180	93	15-Aug-18 A	30-Sep-20	48										—												
Construction - Effluent Screening & Disinfection	784	784	30-Sep-20	22-Nov-22*	0														i 📛	L.			÷				
S35121-12G - Effluent Pumping Facility Improvements						-		1										-									
CM Contract							111		-	÷			-	<u>;</u>			i i i				1.1.		ΤT	n i i		TT.	
RFP / Advertise CM Services - Effluent Tide PB	29	0	01-May-15 A	29-May-15 A	100																						
Award / NTP CMServices - Effluent Tide PB	90	0	30-May-15 A	24-Aug-17 A	100																						
Design Process						-		-	++																		į
Finalize Technical Memoran dum - Effluent Tide PB	45	0	12-Aug-13 A	22-Nov-13 A	100																						
Preliminary Design - Effluent Tide PB	85	0	26-Sep-13 A	27-Feb-14 A	100				111				1-1	:			i-i-	1			i-i-		T T	rtt		ŤŤ	ij
RFP / Advertise Final Design - Effluent Tide PB	30	0	28-Feb-14 A	28-Mar-14 A	100																						
Award / NTP Final Design - Effluent Tide PB	90	0	31-Mar-14 A	08-Dec-14 A	100			-																			
Final Design - Effluent Tide PB	210	0	08-Dec-14 A	07-Jul-15 A	100																						
Bid / Construction										-			+ +		-												ł
County Prepare Bid for Advertisement - Effluent Tide PB	7	0	08-Jul-15 A	14-Jul-15 A	100				11		ŤŤ		1-1	<u>-</u>		1	i-i-				i-i-		ti	rtt		ŤŤ	- 1
Bid / Advertise - Effluent Tide PB	29	0	31-Jul-15 A	11-Sep-15 A	100																						
Bid Opening - Effluent Tide PB	1	0	15-Sep-15 A	15-Sep-15 A	100	11				i i														111			Ì
Award / NTP - Effluent Tide PB	90	0	16-Sep-15 A	24-Aug-17 A	100																						
Construction - Effluent Pumping Facility Improvements	820	0	24-Aug-17 A	05-May-20 A	100								1 📥	1		1	: :							111			
S35121-13E - Phase E1 Electrical Distribution Systems Improvement	nts					-						-	1-1	:		1.7	i i i			1	1-1-		ttr	riti		TT:	i
CM Contract																											
RFP / Advertise CM Services - Phase E1 EDS	30	0	02-Jan-14 A	24-Jan-14 A	100																						
Award / NTP CMServices - Phase E1 EDS	90		25-Jan-14 A	07-Jul-14 A	100																						
Design Process		Ŭ	20 0411 1171	of our first	100	-																					ł
Phase E1 Design	119	0	15-Aug-13 A	11-Dec-13 A	100		-		++++				1-1				1-1-			1.1.1				rtt		÷÷	-
Finalize Technical Memorandum - Phase 1 EDS	45		12-Aug-13 A	03-Jan-14 A	100																						
Bid / Construction		Ŭ	127 ag 107 t	oo dan mit	100							,															
County Prepare Bid for Advertisement - Phase E1 EDS	7	0	12-Dec-13 A	19-Dec-13 A	100						11																
Bid /Advertise - Phase E1 EDS	30	-	20-Dec-13 A	31-Jan-14 A	100		1																				
Bid Opening - Phase E1 EDS	1	0	06-Feb-14 A	06-Feb-14 A	100		fit:t									 	<u></u>			+'		+	+	rtt		·†-+·	- 4
Award / NTP - Phase E1 EDS	76		07-Feb-14 A	27-May-14 A	100																						
Construction - Phase E1 EDS	670		27-May-14 A	19-Oct-16 A	100				111																		
S35121-14E - Phase E2 Unit Substation No. 2 & Electrical Distribution		J	21 TVICIY- 14 A	13-00-10 A	100				; ; ;																		į
	//										16		Ī														
Design Process	455		04 4= 44 4	19 41- 44 4	400				+								-							<u>}-</u> ∔-∔-		·	- {
Phase E2 Design - EDS - USS No. 2	155	0	04-Apr-14 A	18-Aug-14 A	100																						
Bid / Construction	-		01 Au- 11 A	07 41 44 4	400																						į
County Prepare Bid for Advertisement - EDS Phase E2 - USS No. 2	7		-	27-Aug-14 A	100		1 1 1	<u> </u>																			į
Bid / Advertise - EDS Phase E2 - USS No. 2	29		29-Aug-14 A	10-Oct-14 A	100																						
Bid Opening - EDS Phase E2 - USS No. 2	1	0	14-Oct-14 A	14-Oct-14 A	100	11		1			11	i					i i				: i		11			<u> </u>	_
Remaining Level of Effort Actual Work Actual Level of Effort Remaining V				Page 3 c	of 11]	H	az	ze	n	9	۸ (٨R		40	SIS	5		

Park Master Schedule	200030	Orig Dur	Rem Dur	Start	Master Scl	% Comp	2013	2014	2015	201	16	2017	201	8	2019	202	20	2021	2022		As of 2023	202		
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Award / NTP - EDS Phase	E2 - USS No. 2	90	0	15-Oct-14 A	11-May-15 A	100																		-
Construction - Phase E2 -	USS No. 2	660	0	11-May-15 A	29-Sep-17 A	100																		
S35121-14F - Phase E3 Ma	in Substation & Electrical Distribution							X				1 1 1					7							
Design Process								X	•															
Phase E3 Design - EDS - I	Main Substation	285	0	01-Apr-14 A	09-Feb-15 A	100																		
Bid / Construction									V							1	7							,
County Prepare Bid for Adv	vertisement - EDS Phase E3 - MSS	7	0	10-Feb-15 A	12-Feb-15 A	100			1															
Bid / Advertise - EDS Phas	e E3 - Main Substation	36	0	13-Feb-15 A	17-Apr-15 A	100																		
Bid Opening - EDS Phase		1	0	21-Apr-15 A	21-Apr-15 A	100																		
Award / NTP - EDS Phase		90	0	22-Apr-15 A	05-Oct-15 A	100																		
Construction - Phase E3 -	Main Substation	1095	26	05-Oct-15 A	25-Jul-20*	98					: 1	1 1 1	1 1 1	:										
S35121-14M - Phase E2 &	E3 Construction Management																							
CM Contract								-																
RFP / Advertise CM Service	es - Electrical Phase E2 & E3	29	0	25-Jul-14 A	22-Aug-14 A	100																		
Award / NTP CMServices	Electrical Phase E2 & E3	90	0	23-Aug-14 A	08-Jun-15 A	100																		
S35123-L33E - Phase E4 E	lectrical Utility Connections						-														¥			
Design Process	-						-					+ + +						+ + +		¥				
Preliminary Design - Phase	E4 Electrical Utility Connections	90	0	15-Dec-17 A	04-Jun-18 A	100																		
RFP / Advertise - Final Des	ign - Phase E4 Electrical Utility Connections	29	0	12-Oct-18 A	09-Nov-18 A	100																		
Award / NTP Final Design -	Phase E4 Electrical Utility Connections	120	0	09-Nov-18 A	22-Jan-20 A	100										• i								
Final Design - Phase E4 E	lectrical Utility Connections	180	51	22-Jan-20 A	19-Aug-20	72		1111				111								1-1-		111		,
PSE&G Coordination		5	819	12-Aug-13 A	26-Sep-22	0	-																	
Bid / Construction																	+++			:	*			
County Prepare Bid for Adv	vertisement - Phase E4 Electrical Utility Connection	7	7	20-Aug-20	26-Aug-20	0																		
Bid / Advertise - Phase E4	Electrical Utility Connections	29	29	28-Aug-20	25-Sep-20	0											d l							
Bid Opening - Phase E4 E	lectrical Utility Connections	1	1	29-Sep-20	29-Sep-20	0						† † †					1	$\pm\pm\pm$		trt	111	111		
Award / NTP - Phase E4 E	lectrical Utility Connections	180	180	30-Sep-20	28-Mar-21	0											È.							
Construction - Phase E4 E	lectrical Utility Connections	548	548	28-Mar-21	26-Sep-22*	0													1 : :					
Energize & Commission P	•	184	184	27-Sep-22	29-Mar-23*	0																		
S35121-16A- Engine Facili	ty Auxiliary Upgrades		,									+ + +												
Design Process										V	-									111				
Final Design - Engine Facil	ity Auxiliary Upgrades	195	0	01-Nov-15 A	30-Sep-16 A	100																		
Bid / Construction											÷+													
County Prepare Bid for Adv	vertisement - Engine Facility Auxiliary Upgrades	21	0	30-Sep-16 A	20-Oct-16 A	100																		
Bid / Advertise - Engine Fa		29		21-Oct-16 A	18-Nov-16 A	100																		
Bid Opening - Engine Faci	lity Auxiliary Upgrades	1	0	22-Nov-16 A	22-Nov-16 A	100														1				
Award / NTP - Engine Faci	ity Auxiliary Upgrades	90	0	23-Nov-16 A	05-Jul-17 A	100																		
Construction - Engine Faci	lity Auxiliary Upgrades	365	0	05-Jul-17 A	30-Aug-19 A	100						1												
S35121-16G - Secondary F	Flood Protection & Hardening of Critical Fa	cilities																	•					
CM Contract												-												
	es - Secondary Flood Protection	29	0	28-Jul-17 A	25-Aug-17 A	100				·								*-†-†-	·	† †			t de la	
Award / NTP CMServices	Secondary Flood Protection	90	0	26-Aug-17 A	02-Dec-19 A	100						1	1 1											
Design Process				-							;							111						
Preliminary Design - Secor	ndary Flood Protection	90	0	01-Dec-14 A	29-Oct-15 A	100																		
	ndum - Se condary Flood Protection	45	0	21-Apr-14 A	29-Oct-15 A	100			: :															
	n - Secondary Flood Protection	29		30-Oct-15 A	04-Dec-15 A	100		++++++				÷	+-+-+			1-1-1				i-t-		111	i i i	
	Secondary Flood Protection	90		05-Dec-15 A	08-Nov-16 A	100					-													
Final Design - Secondary F		210		09-Nov-16 A	07-Jul-17 A	100																		
Bid / Construction			,									+					+ +	+ + +	•					
	vertisement - Secondary Flood Protection	7	0	10-Jul-17 A	27-Jul-17 A	100						1												
Bid / Advertise - Secondary		29		27-Oct-17 A	01-Dec-17 A	100					+-+-	+				†-†- †				††		+-+		
Bid Opening - Secondary I		1		05-Dec-17 A	05-Dec-17 A	100																		
Award / NTP - Secondary F		90		06-Dec-17 A	18-Dec-19 A	100																		
Construction - Secondary I		730	535	18-Dec-19 A	16-Dec-21*	27								T			:	111						
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Park Master Schedule 200630	Orig Dur	Rem Dur	Start	Master Sch Finish	% Comp	2013	2014	2015	20	016	2017	2018	2019	202	20 2021	2022	2023	of 30)24
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S35121-16P - Heating Hot Water Piping Permanent System								_	•									•	
CM Contract																7			
RFP / Advertise CM Services - Heating Hot Water Piping Perman ent System	29	29	31-Mar-21	28-Apr-21	0										P				
Award / NTP CMServices - Heating Hot Water Piping Permanent System	190	190	29-Apr-21	04-Nov-21	0														
Design Process									-										
Preliminary Design - Heating Hot Water Piping Permanent System	90	0	02-Nov-15 A	09-Sep-16 A	100														
RFP / Advertise - Final Design - Heating Hot Water Piping Permanent System	29	0	19-Oct-18 A	16-Nov-18 A	100														
Award / NTP Final Design - Heating Hot Water Piping Permanent System	159	93	16-Nov-18 A	30-Sep-20	42										■				
Final Design - Heating Hot Water Piping Permanent System	210	210	01-Oct-20	28-Apr-21	0														
Bid / Construction														1				-	
County Prepare Bid for Advertisement - Hot/Chilled Water System Upgrades	7	7	29-Apr-21	05-May-21	0														
Bid / Advertise - Heating Hot Water Piping Permanent System	29	29	07-May-21	04-Jun-21	0														[]]
Bid Opening - Heating Hot Water Piping Permanent System	1	1	08-Jun-21	08-Jun-21	0														
Award / NTP - Heating Hot Water Piping Permanent System	180	180	09-Jun-21	05-Dec-21	0														
Construction - Heating Hot Water Piping Permanent System	730	730	05-Dec-21	04-Dec-23*	0														
S35121-16TR - Vehicle Fueling & Tanks Reconstruction											1 1 1	V							
Design Process																	+		
Design - Vehicle Fueling	53	0	10-Mar-14 A	02-May-14 A	100														
Bid / Construction				,					-			V		1					1
County Prepare Bid for Advertisement - Vehicle Fueling	7	0	02-May-14 A	08-May-14 A	100														
Bid / Advertise - Vehide Fueling	29	0	09-May-14 A	06-Jun-14 A	100														
Bid Opening - Vehicle Fueling	1	0	10-Jun-14 A	10-Jun-14 A	100													()	
Re-Bid / Advertise - Vehicle Fueling	29	0	27-Mar-15 A	24-Apr-15 A	100			i i i											: :
Bid Opening - Vehicle Fueling	1	0	28-Apr-15 A	28-Apr-15 A	100														
Award / NTP - Vehicle Fueling	90	0	29-Apr-15 A	12-Jun-16 A	100														1
Construction - Vehicle Fueling	274	0	13-Jun-16 A	30-Jan-18 A	100														
	2/4	0	13-5011-10 A	30-3alf-18 A	100														
S35121-16V - Dechlorination Vault Storm Mitigation									-										
Design Process	180	0	27-Mar-15 A	22-Oct-15 A	100														
Design - Dechlor Sample Vault Hardening Bid / Construction	100	0	27-IVIAI-15 A	22-00-15 A	100														
County Prepare Bid for Advertisement - Dechlor Sample Vault Hardening	7	0	23-Oct-15 A	29-Oct-15 A	100														
Bid / Advertise - Dechlor Sample Vault Hardening	36	0	30-Oct-15 A	04-Dec-15 A	100				.										
	1	0	08-Dec-15 A	04-Dec-15 A	100														
Bid Opening - Dechlor Sample Vault Hardening	90	0							<u> </u>										
Award / NTP - Dechlor Sample Vault Hardening			12-Dec-15 A	11-May-16 A	100														
Construction - Dechlor Sample Vault Hardening	270	0	11-May-16 A	11-Aug-17 A	100														
S35121-17G - Perimeter Flood Protection																			
CM Contract	20	0	40 Jan 44 4	07 5-6 44 4	400														
RFP / Advertise CM Services - Perimeter Flood Protection	30		10-Jan-14 A	07-Feb-14 A	100		•												
Award / NTP CM Services - Perimeter Flood Protection	90	0	08-Feb-14 A	30-Jun-14 A	100														
Design Process	05		10.4 10.4	17.0 10.4	100														
Geotech Borings - Perimeter Flood Protection	85		0	17-Dec-13 A	100					ļ									
Permitting (EAS) - Perimeter Flood Protection	125	0	12-Aug-13 A	17-Dec-13 A	100														
Berm Design - Perimeter Flood Protection	83		26-Sep-13 A	17-Dec-13 A	100														
Finalize Technical Memorandum - Perimeter Flood Protection	45		12-Aug-13 A	17-Dec-13 A	100														
Public Review/Comment Period	30	0	17-Dec-13 A	16-Jan-14 A	100														
Bid / Construction																			
County Prepare Bid for Advertisement - Perimeter Flood Protection	7		17-Jan-14 A	23-Jan-14 A	100		•												
Bid / Advertise - Perimeter Flood Protection	29	0	24-Jan-14 A	14-Mar-14 A	100														
Bid Opening - Perimeter Flood Protection	1	0	18-Mar-14 A	18-Mar-14 A	100														
Award / NTP - Perimeter Flood Protection	76	0	19-Mar-14 A	27-May-14 A	100														
Eastern Park Open	0	0		07-Oct-15 A	100														
Construction - Perimeter Flood Protection	740	0	27-May-14 A	09-Jun-17 A	100					: : [
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Remaining Level of Effort Actual Work				Page 5 c	of 11							L	3774				סור		
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S35121-18G - Flood Protection Phase 1 Stormwater Pumping Stations							-								7								
CM Contract									-		-												
RFP / Advertise CM Services - Flood Protection Phase 1 Stormwater PS	29	0	31-Jul-15 A	28-Aug-15 A	100																		
Award / NTP CMServices - Flood Protection Phase 1 Stormwater PS	90	0	29-Aug-15 A	17-Jun-16 A	100								Li.	Шi	J.L.			L.					
Design Process							-		•														
Preliminary Design Flood Protection Phase 1 Stormwater PS	97	0	18-Dec-13 A	17-Apr-14 A	100		-																
RFP / Advertise Final Design Flood Protection Phase 1 Stormwater PS	29	0	18-Apr-14 A	16-May-14 A	100																		
Award / NTP Final Design Flood Protection Phase 1 Stormwater PS	90	0	17-May-14 A	10-Nov-14 A	100																		
Final Design Flood Protection Phase 1 Stormwater PS	210	0	10-Nov-14 A	28-Aug-15 A	100													LJ.,					
Bid / Construction									V						₹ .								
County Prepare Bid for Advertisement - Flood Protection Phase 1 Stormwater	7	0	28-Aug-15 A	03-Sep-15 A	100				1														
Bid / Advertise - Flood Protection Phase 1 Stormwater PS	29	0	04-Sep-15 A	02-Oct-15 A	100				1														
Bid Opening - Flood Protection Phase 1 Stormwater PS	1	0	06-Oct-15 A	06-Oct-15 A	100																		
Award / NTP - Flood Protection Phase 1 Stormwater PS	90	0	30-Sep-15 A	31-May-16 A	100									<u>i Li</u>									
Construction - Flood Protection Phase 1 Stormwater PS	760	0	31-May-16 A	24-Jun-19 A	100						<u> </u>			: :									
S35121-18S - Flood Protection Phase 2 Stormwater Green Infrastruct	ure									-	-												
Design Process										-	-												
Preliminary Design - Flood Protection Phase 2 Stormwater GI	96	0	31-Jan-16 A	26-May-16 A	100																		
RFP / Advertise - Final Design Flood Protection Phase 2 Stormwater GI	29	0	27-May-16 A	24-Jun-16 A	100																		
S35123-L37 - Miscellaneous Storm Repairs, Mitigation & Site Restorat	ion						·				ŤŤ			TIT	V	-							-
CM Contract																							
RFP / Advertise CM Services - Misc Storm Repairs, Mitigation & Restoration	29	29	25-Nov-21	23-Dec-21	0																		
Award / NTP CM Services - Misc Storm Repairs, Mitigation & Restoration	180	180	24-Dec-21	21-Jun-22	0																		
Design Process					-										-		<u> </u>		-				
Conceptual Design - Misc Storm Repairs, Mitigation & Site Restoration	90	87	05-Jul-19 A	24-Sep-20	3		·	÷			· † · † ·			<u>†</u>						÷			
RFP / Advertise - Final Design - Misc Storm Repairs, Mitigation & Site Restoral	29	29	25-Sep-20	23-Oct-20	0												<u> </u>						
Award / NTP Final Design - Misc Storm Repairs, Mitigation & Site Restoration	180	180	24-Oct-20	21-Apr-21	0												- ī	-					
Final Design - Misc Storm Repairs, Mitigation & Site Restoration	270	270	21-Apr-21	15-Jan-22	0																		
Bid / Construction					-																	÷	.
County Prepare Bid for Advertisement - Misc Storm Repairs, Mitigation & Site	7	7	15-Jan-22	21-Jan-22	0		·							+++	· † - † -					1-1-1			
Bid / Advertise - Misc Storm Repairs, Mitigation & Site Restoration	29	29	21-Jan-22	18-Feb-22	0																		
Bid Opening - Misc Storm Repairs, Mitigation & Site Restoration	1	1	22-Feb-22	22-Feb-22	0																		
Award / NTP - Misc Storm Repairs, Mitigation & Site Restoration	180	180	23-Feb-22	21-Aug-22	0																		
Construction - Misc Storm Repairs, Mitigation & Site Restoration	731	731	21-Aug-22	20-Aug-24*	0																		<u>-</u>
S3B119-06G - Bay Park STP Heating Hot Water Piping Temporary Sys			g				·	+++-			-			<u>+</u> ++	+++			+ + -		1-1-1			Firt
Design Process																							
Final Design - Heating Hot Water Piping Temporary System	90	0	01-May-15 A	17-Jun-15 A	100																		
Bid / Construction	50	0	of May 1071	IT built fork	100				-		-												
County Prepare Bid for Advertisement - Heating Hot Water Piping Temporary	7	0	12-Jun-15 A	18-Jun-15 A	100																		
Bid / Advertise - Heating Hot Water Piping Temporary System	8	0	19-Jun-15 A	26-Jun-15 A	100		·	·			·+·+·			÷									
Bid / Adventise - Heating Hot Water Piping Temporary System Bid Opening - Heating Hot Water Piping Temporary System	0 1	0	30-Jun-15 A	30-Jun-15 A	100																		
Award / NTP - Heating Hot Water Piping Temporary System	13	0	01-Jul-15 A	13-Jul-15 A	100																		
Construction - Heating Hot Water Piping Temporary System	124	0	13-Jul-15 A	04-Aug-16 A	100						-												
	124	0	13-Jui-13 A	04-Aug-10 A	100																		
S35121-06G - Aeration Blower Facility																							
CM Contract			00.0 1.01	05 N 01	0																		
RFP / Advertise CM Services - Aeration Blower Facility	29	29	28-Oct-21	25-Nov-21	0																		
Award / NTP CMServices - Aeration Blower Facility	180	180	26-Nov-21	24-May-22	0																		
Design Process	100				100									-									
Preliminary Design - Aeration Blower Facility	180	0	01-Nov-16 A	15-Dec-16 A	100											<u> </u>				<u>.</u>			<u> </u>
Resolve Power Availability Issue for Aeration Blower Building / PSEG	147	0	01-Jul-18 A	30-Jun-20 A	100									: :	: :	:							
RFP / Advertise - Final Design - Aeration Blower Facility	29	29	25-Sep-20*	23-Oct-20	0																		
Award / NTP Final Design - Aeration Blower Facility	180	180	24-Oct-20	21-Apr-21	0												1						
Final Design - Aeration Blower Facility	240	240	21-Apr-21	16-Dec-21	0																		
Remaining Level of Effort Actual Work				Doro C -		_							-	-									
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Actual Level of Effort Remaining Wo																	- 1		\sim				

Park Master Schedule 200630	Orig Dur	Rem Dur	Start	Master Scl	% Comp	0012	2014	20	15	2016		017	201	0	2010		020	2021	_	2022	2023	 Jun	
ine	Ong Dur	Relif Dur	Start	Finish							_	_	Q Q 0		2019 QQQ	_			_				Q
Bid / Construction																			-				Ē
County Prepare Bid for Advertisement - Aeration Blower Facility	7	7	16-Dec-21	22-Dec-21	0																		
Bid / Advertise - Aeration Blower Facility	29	29	24-Dec-21	21-Jan-22	0														i 🛛 i				
Bid Opening - Aeration Blower Facility	1	1	25-Jan-22	25-Jan-22	0																		
Award / NTP - Aeration Blower Facility	180	180	26-Jan-22	24-Jul-22	0																		
Construction - Aeration Blower Facility	1095	1095	24-Jul-22	22-Jul-25*	0																	<u> </u>	
S3P311 - Pump Stations						-													-				
S3P311-01G - Dock Place & Southland Drive								-															
Construction								-															
Construction - Dock Place & Southland Drive Pump Stations	240	0	28-Oct-13 A	31-Oct-14 A	100																		
S3P311-02G - Cedar, Roosevelt, Whitewood, Biltmore & Alhambra						-																	
Design Process								<u>.</u>		+												 +-+	• •• •
Finalize Technical Memorandum - Pump Station 2	140	0	12-Aug-13 A	22-Nov-13 A	100			1		111													
Preliminary Design - Pump Station 2	67	0	23-Nov-13 A	28-Jan-14 A	100																		
RFP / Advertise Final Design - Pump Station 2	30	0	31-Jan-14 A	28-Feb-14 A	100		T.																
Award / NTP Final Design - Pump Station 2	90	0	01-Mar-14 A	23-Sep-14 A	100																		
Final Design - Pump Station 2	90		23-Sep-14 A	23-Sep-14 A 26-Mar-15 A	100			i de la composición d		+				-+-+-			+-+-					 	
Bid / Construction	90	J	20-00p-14 A	20-Ividi-10 A	100				1														
County Prepare Bid for Advertisement - Pump Station 2	7	0	27-Mar-15 A	09-Apr-15 A	100																		
Bid / Advertise - Pump Station 2	29		10-Apr-15 A	09-Api-15 A 08-May-15 A	100																		
	1			12-May-15 A	100																		
Bid Opening - Pump Station 2	90	0	12-May-15 A	,				÷														 	
Award / NTP - Pump Station 2		0	13-May-15 A	03-Mar-16 A	100																		
Construction - Pump Station 2	548	0	03-Mar-16 A	12-Jan-18 A	100					: : :	:	: :											
S3P311-03G - Wantagh, Newbridge, Merrick & Ray																							
Design Process				1																			
Finalize Technical Memorandum - Pump Station 3	140	0	12-Aug-13 A	22-Nov-13 A	100		<u> </u>			↓↓↓-		. i i										 	
Preliminary Design - Pump Station 3	67	0	23-Nov-13 A	28-Jan-14 A	100																		
RFP / Advertise Final Design - Pump Station 3	30	0	31-Jan-14 A	28-Feb-14 A	100																		
Award / NTP Final Design - Pump Station 3	90	0	01-Mar-14 A	23-Sep-14 A	100		1 1																
Final Design - Pump Station 3	90	0	23-Sep-14 A	13-Apr-15 A	100																		
Bid / Construction				1						÷			.									 	
County Prepare Bid for Advertisement - Pump Station 3	7		14-Apr-15 A	30-Apr-15 A	100																		
Bid / Advertise - Pump Station 3	29		01-May-15 A	29-May-15 A	100										111								
Bid Opening - Pump Station 3	1	0	02-Jun-15 A	02-Jun-15 A	100																		
Award / NTP - Pump Station 3	90	0	03-Jun-15 A	03-Mar-16 A	100				-														
Construction - Pump Station 3	540	0	03-Mar-16 A	12-Feb-18 A	100					+												 	
S3P311-02M - PS2 & PS3 Construction Management																							
CM Contract																							
RFP / Advertise CM Services - PS2 & PS3	29	0	03-Oct-14 A	31-Oct-14 A	100																		
Award / NTP CM Services - PS2 & PS3	90	0	01-Nov-14 A	03-Mar-16 A	100																		
S3P311-04G - Felix, Fox, Northern & Grand						-						-											
Design Process						-																	
Finalize Technical Memorandum - Pump Station 4	140	0	12-Aug-13 A	22-Nov-13 A	100																		
Preliminary Design - Pump Station 4	67	0	23-Dec-13 A	27-Feb-14 A	100																		
RFP / Advertise Final Design - Pump Station 4	30	0	28-Feb-14 A	28-Mar-14 A	100																		
Award / NTP Final Design - Pump Station 4	90	0	30-Mar-14 A	17-Sep-14 A	100																		
Final Design - Pump Station 4	90	0	17-Sep-14 A	13-Mar-15 A	100			 :									TT						-
Bid / Construction												-											
County Prepare Bid for Advertisement - Pump Station 4	7	0	13-Mar-15 A	19-Mar-15 A	100			1															
Bid / Advertise - Pump Station 4	29	0	20-Mar-15 A	17-Apr-15 A	100																	1	
Bid Opening - Pump Station 4	1	0	21-Apr-15 A	21-Apr-15 A	100																		
Award / NTP - Pump Station 4	90	0	22-Apr-15 A	15-Nov-15 A	100										111							11-	-
Construction - Pump Station 4	420	0	16-Nov-15 A	29-Aug-17 A	100																		
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	Ong Dui	North Dur	Otdit	T INOT	, comp												<u>a</u> aaa					
S3P311-05G - Millar, Mott, Long Beach, Royal & Lido						-		-		:												1
Design Process						-		i	-													ł
Finalize Technical Memorandum - Pump Station 5	140	0	12-Aug-13 A	22-Nov-13 A	100	. i 📫																
Preliminary Design - Pump Station 5	67	0	23-Jan-14 A	27-Mar-14 A	100										T T T							1
RFP / Advertise Final Design - Pump Station 5	30	0	28-Mar-14 A	25-Apr-14 A	100																	
Award / NTP Final Design - Pump Station 5	94	0	26-Apr-14 A	01-Dec-14 A	100																	
Final Design - Pump Station 5	90	0	01-Dec-14 A	01-May-15 A	100																	
Bid / Construction				. , .					-													Ì
County Prepare Bid for Advertisement - Pump Station 5	7	0	02-May-15 A	21-May-15 A	100																	
Bid / Advertise - Pump Station 5	29	0	22-May-15 A	19-Jun-15 A	100																	
Bid Opening - Pump Station 5	1	0	23-Jun-15 A	23-Jun-15 A	100																	
Award / NTP - Pump Station 5	90	0	24-Jun-15 A	15-Nov-15 A	100					1												Ì
Construction - Pump Station 5	540	0	16-Nov-15 A	29-Aug-17 A	100																	
	540	0	10-110V-15 A	29-Aug-17 A	100																	
S3P311-04M - PS4 & PS5 Construction Management										1												
CM Contract										1												
RFP / Advertise CM Services - PS4 & PS5	29	0	07-Nov-14 A	05-Jan-15 A	100				11	1												
Award / NTP CMServices - PS4 & PS5	90	0	06-Jan-15 A	16-Nov-15 A	100				1.1.													
S3P311-06G - Ocean, Mill, Woodmere & Longacre														₹;								
Design Process						-		1	1 1	¥												
Finalize Technical Memoran dum - Pump Station 6	140	0	12-Aug-13 A	22-Nov-13 A	100	i 📫	I			1												
Preliminary Design - Pump Station 6	67	0	23-Feb-14 A	25-Apr-14 A	100																	
RFP / Advertise Final Design - Pump Station 6	29	0	09-May-14 A	30-May-14 A	100					1												
Award / NTP Final Design - Pump Station 6	90	0	31-May-14 A	15-Apr-15 A	100			-														
Final Design - Pump Station 6	90	0	15-Apr-15 A	17-Sep-15 A	100					; ;					****							
Bid / Construction										÷ –				7								1
County Prepare Bid for Advertisement - Pump Station 6	7	0	18-Sep-15 A	24-Sep-15 A	100					i I												
Bid / Advertise - Pump Station 6	29	0	25-Sep-15 A	23-Oct-15 A	100					i l												1
Bid Opening - Pump Station 6	1	0	27-Oct-15 A	27-Oct-15 A	100																	į.
Award / NTP - Pump Station 6	90	0	28-Oct-15 A	15-Mar-17 A	100							- 									+	
Construction - Pump Station 6	550	0	15-Mar-17 A	17-Aug-18 A	100																	
S3P311-07G - Inwood, Doughty, Bayview & Roslyn		-		5 -		-		1		-					-							
								i														÷.
Design Process Finalize Technical Memorandum - Pump Station 7	140	0	12-Aug-13 A	22-Nov-13 A	100																	
· · · · ·	67	0	23-Mar-14 A	22-Nov-13 A 28-May-14 A	100					·												
Preliminary Design - Pump Station 7	29	0		-	100																	
RFP / Advertise Final Design - Pump Station 7			30-May-14 A	27-Jun-14 A																		÷.
Award / NTP Final Design - Pump Station 7	90	0	28-Jun-14 A	13-May-15 A	100					1												
Final Design - Pump Station 7	90	0	13-May-15 A	16-Nov-15 A	100					1												
Bid / Construction		0	10.01 15.4	10.11 15.4	400																	
County Prepare Bid for Advertisement - Pump Station 7	7		16-Nov-15 A	19-Nov-15 A	100																	
Bid / Advertise - Pump Station 7	29	0	20-Nov-15 A	18-Dec-15 A	100																	
Bid Opening - Pump Station 7	1	0	22-Dec-15 A	22-Dec-15 A	100																	ł
Award / NTP - Pump Station 7	90	0	23-Dec-15 A	15-Mar-17 A	100																	
Construction - Pump Station 7	540	0	15-Mar-17 A	13-May-19 A	100																	
S3P311-06M - PS6 & PS7 Construction Management																						
CM Contract									V	1												
RFP / Advertise CM Services - PS6, PS7 & PS8	29	0	22-May-15 A	19-Jun-15 A	100																	
Award / NTP CM Services - PS6, PS7 & PS8	90	0	20-Jun-15 A	15-Mar-17 A	100																	
S3P311-08G - East Avenue										-								┿:::				
CM Contract														T I					i-†-†			Ť
RFP / Advertise CM Services - East Avenue Pump Station	29	0	08-Mar-19 A	05-Apr-19 A	100																	
Award / NTP CMServices - East Avenue Pump Station	180	32	06-Apr-19 A	31-Jul-20	82																	
Design Process	.50			2. 54 20	52																	
Prepare Flow Study & Technical Memorandum - Pump Station 8	27	0	18-Dec-15 A	14-Jul-16 A	100					1												
RFP / Advertise - Pump Station 8										· • • •					÷							
NEF / Auvenuse - Pump Station 6	29	0	15-Jul-16 A	12-Aug-16 A	100	<u></u>		1		1					111				: []			<u> </u>
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Actual Level of Effort Remaining	n Work										1			10			T VENT	~~~				

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Name	Orig Dur	Rem Dur	Start	Finish	% Comp		2014 QQQ		015 QQQ	2016 QQQC	2017 QQQQ	2018 2 Q Q Q				2021 2 Q Q Q	202 Q Q Q I	_	2023 q Q Q Q	202 2 Q Q	24 : Q Q 9
Award / NTP Final Design - Pump Station 8	90	0	13-Aug-16 A	29-Mar-17 A	100																
Final Design - East Avenue Pump Station	270	0	29-Mar-17 A	23-Dec-17 A	100																
Bid / Construction																	-				
County Prepare Bid for Advertisement - East Avenue Pump Station	7	0	24-Dec-17 A	07-Mar-19 A	100																
Bid / Advertise - East Avenue Pump Station	29	0	08-Mar-19 A	05-Apr-19 A	100																
Bid Opening - East Avenue Pump Station	1	0	09-Apr-19 A	09-Apr-19 A	100																
Award / NTP - East Avenue Pump Station	180	32	09-Apr-19 A	31-Jul-20	82																
Construction - East Avenue Pump Station	540	540	31-Jul-20	21-Jan-22*	0												-				
S3P311-09G - Hempstead Wastewater Pumping Station										-											
Design Process								*****	*									- 1 1-			
RFP / Advertise Final Design - Hempstead Wastewater Pumping Station	29	0	22-Nov-13 A	20-Dec-13 A	100																
Award / NTP Final Design - Hempstead Wastewater Pumping Station	90		21-Dec-13 A	29-May-14 A	100																
Final Design - Hempstead Wastewater Pumping Station	185		18-Jun-14 A	24-Jun-15 A	100																
Bid / Construction	100	, in the second se	io dan init	2 roun rove	100																
County Prepare Bid for Advertisement - Hempstead Wastewater Pumping Si	7	0	25-Jun-15 A	30-Jun-15 A	100											• • • • • • • • • •					
Bid / Advertise - Hempstead Wastewater Pumping Station	29		23-Jul-15 A 03-Jul-15 A	14-Aug-15 A	100																
	1		18-Aug-15 A	18-Aug-15 A	100																
Bid Opening - Hempstead Wastewater Pumping Station	90		-	-	100																
Award / NTP - Hempstead Wastewater Pumping Station			19-Aug-15 A	25-Apr-16 A																	
Construction - Hempstead Wastewater Pumping Station	460	0	25-Apr-16 A	22-Nov-19 A	100								<u></u> .	<u>-</u>						·	
S3P311-09S - Hempstead Wastewater Force Main																					
Design Process									•												
RFP / Advertise Final Design - Hempstead Wastewater Force Main	29		22-Nov-13 A	20-Dec-13 A	100																
Award / NTP Final Design - Hempstead Wastewater Force Main	90	0	21-Dec-13 A	29-May-14 A	100																
Final Design - Hempstead Wastewater Force Main	185	0	18-Jun-14 A	24-Jun-15 A	100																
Bid / Construction																					
County Prepare Bid for Advertisement - Hempstead Wastewater Force Main	7	0	25-Jun-15 A	30-Jun-15 A	100				1												
Bid / Advertise - Hempstead Wastewater Force Main	29	0	03-Jul-15 A	14-Aug-15 A	100																
Bid Opening - Hempstead Wastewater Force Main	1	0	18-Aug-15 A	18-Aug-15 A	100				11												
Award / NTP - Hem pstead Wastewater Force Main	90	0	19-Aug-15 A	25-Apr-16 A	100																
Construction - Hempstead Wastewater Force Main	450	0	25-Apr-16 A	01-May-19 A	100			ii	1									-11-			it-
S3P311-09M - Hempstead Wastewater Pumping Station & Force Ma	in CM							-		7											
CM Contract								_		,											.
RFP / Advertise CM Services - Hempstead Wastewater Pump Sta & FM	29	0	17-Oct-14 A	14-Nov-14 A	100																
Award / NTP CMServices - Hempstead Wastewater Pump Sta & FM	90			01-Feb-16 A	100				11												
S3P311-10G - Lawrence PS (STP) & Sage Lake PS	00	0	101101147	orreprieve	100														-+-+-+		
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CM Contract			05 1 40 4	00 E 10 A	100																
RFP / Advertise CM Services - Lawrence STP & Sage Lake PS	28			22-Feb-16 A	100																
Award / NTP CMServices - Lawrence STP & Sage Lake PS	90	0	23-Feb-16 A	22-Mar-17 A	100																.
Design Process				100						◀	<u> </u>	+-i		-							
Preliminary Design - Lawrence STP & Sage Lake PS	75			12-Sep-14 A	100																
RFP / Advertise Final Design - Lawrence STP & Sage Lake PS	29		12-Sep-14 A	10-Oct-14 A	100																
Award / NTP Final Design - Lawrence STP & Sage Lake PS	61	0	11-Oct-14 A	15-Sep-15 A	100																
Final Design - Lawrence STP & Sage Lake PS	180	0	15-Sep-15 A	08-Mar-16 A	100				1												
Bid / Construction																					L.L.
County Prepare Bid for Advertisement - Lawrence STP & Sage Lake PS	7	0	09-Apr-16 A	14-Apr-16 A	100									11							. I T
Bid / Advertise - Lawrence STP & Sage Lake PS	29	0	15-Apr-16 A	13-May-16 A	100																
Bid Opening - Lawrence STP & Sage Lake PS	1	0	17-May-16 A	17-May-16 A	100																
Award / NTP - Lawrence STP & Sage Lake PS	90	0	18-May-16 A	22-Mar-17 A	100																
Construction - Lawrence STP & Sage Lake PS	550	0	22-Mar-17 A	13-Aug-18 A	100																
S3P311-11G - Roslyn Village, Morgan Park & Shore Road								1-1	1	V	•>i							11			, intr
CM Contract															┿╇┿						
RFP / Advertise CM Services - Roslyn Village, Morgan Park & Shore Rd	47	0	05-Oct-18 A	02-Nov-18 A	100																.
Award / NTP CM Services - Roslyn Village, Morgan Park & Shore Rd	180		03-Nov-18 A	30-Sep-20	48									: :							
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Remaining Level of Effort Actual Work				Dama								-	-								
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Actual Level of Effort Remaining \																7 / 1	~ ~ /-				

Park Master Schedule 200630	Orig Dur	Rem Dur	Start	Master Scl Finish	% Comp	013	2014	4	2015	-	2016		2017		2018	3	201	9	20	20	2	021		2022		2023	of 30	2024	
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Design Process													-7																İ
Preliminary Design - Roslyn Village, Morgan Park & Shore Rd	75	0	01-Mar-16 A	16-Jun-16 A	100					ļ																			ł
RFP / Advertise Final Design - Roslyn Village, Morgan Park & Shore Rd	29	0	17-Jun-16 A	15-Jul-16 A	100																								ł.
Award / NTP Final Design - Roslyn Village, Morgan Park & Shore Rd	60	0	16-Jul-16 A	02-Feb-17 A	100																								ł
Final Design - Roslyn Village, Morgan Park & Shore Rd	154	0	02-Feb-17 A	02-Aug-17 A	100																								÷
Bid / Construction													•			;	1 1					++	·						÷.
County Prepare Bid for Advertisement - Roslyn Village, Morgan Park & Shore	7	0	13-Oct-17 A	09-Nov-17 A	100	1.1.			1						1	11						11							1
Bid / Advertise - Roslyn Village, Morgan Park & Shore Rd	29	0	10-Nov-17 A	08-Dec-17 A	100					i																			i.
Bid Opening - Roslyn Village, Morgan Park & Shore Rd	1	0	12-Dec-17 A	12-Dec-17 A	100																								ł
Award / NTP - Roslyn Village, Morgan Park & Shore Rd	90	32	13-Dec-17 A	30-Sep-20	64										: :		1 1	:		n									÷
Construction - Roslyn Village, Morgan Park & Shore Rd	365	365	30-Sep-20	29-Sep-21*	0											1		-	1	Ļ.									į
	505	505	30-0ep-20	28-06p-21	0				+	·						4			·										÷
S80019-03GR - Cedar Point Lake (Doxey Brook) Pump Station																													1
CM Contract																													Ì.
RFP / Advertise CM Services - Cedar Point Lake PS	29	0	01-Dec-16 A	23-Dec-16 A	100																								ł.
Award / NTP CMServices - Cedar Point Lake PS	90	0	24-Dec-16 A	03-Jan-18 A	100							-																	į.
Design Process												▼					L.												1
Final Design - Cedar Point Lake PS	180	0	10-Feb-16 A	28-Oct-16 A	100												11		1	- 1		11			11				-
Bid / Construction																++		++											
County Prepare Bid for Advertisement - Cedar Point Lake PS	7	0	29-Oct-16 A	01-Dec-16 A	100																							. '	
Bid / Advertise - Cedar Point Lake PS	29	0	02-Dec-16 A	06-Jan-17 A	100																								ł
Bid Opening - Cedar Point Lake PS	1	0	10-Jan-17 A	10-Jan-17 A	100																								÷
Award / NTP - Cedar Point Lake PS	90	0	11-Jan-17 A	03-Jan-18 A	100					· +		{;			†	$\dot{\gamma}$			· - †		· • • • •	- 1 		†					i-
Construction - Cedar Point Lake PS	540	0	03-Jan-18 A	20-Dec-19 A	100																								ł
	540	0	03-0an-10 A	20-D60-13 A	100				111	į						1		-				11							÷
litrogen Reduction Projects								Į.																					ł
S35123-L38G - Sidestream Deammonification																		-											ł
CM Contract				1												4													4
RFP / Advertise CM Services - Sidestream Centrate Treatment	29	0	28-Jul-17 A	25-Aug-17 A	100																							. '	ł.
Award / NTP CMServices - Sidestream Centrate Treatment	90	0	26-Aug-17 A	16-Dec-19 A	100											1	: :	:											
RFP Process								Y I	1 1 1		1																		ł.
Develop / Issue RFI - Sidestream Centrate Treatment	60	0	30-Sep-14 A	26-May-15 A	100				-																				
RFI Response Period - Sidestream Centrate Treatment	41	0	26-May-15 A	07-Aug-15 A	100					. l l					1			. L.	İ	j.		.i.i							j.,
RFI Evaluation Period - Sidestream Centrate Treatment	88	0	08-Aug-15 A	29-Feb-16 A	100				1	i i																			ł.
NCDPW Review & Award Sidestream Centrate Treatment	120	0	01-Mar-16 A	26-Sep-16 A	100					Ė	_																		ł
Design Process														-															Ì.
Complete Technical Design Report	60	0	27-Sep-16 A	26-Nov-16 A	100						1																		ł
Detailed Design - Sidestream Centrate Treatment	275	0	27-Sep-16 A	31-Oct-17 A	100						1																		
Bid / Construction									1 1 1	·				V	i	4	-ii.		· - i					,					1
County Prepare Bid for Advertisement - Sidestream Centrate Treatment	17	0	01-Nov-17 A	16-Nov-17 A	100																								
Bid / Advertise - Sidestream Centrate Treatment	29	0	17-Nov-17 A	05-Jan-18 A	100																								į.
Bid Opening - Sidestream Centrate Treatment	1	0	09-Jan-18 A	09-Jan-18 A	100									٦															1
Award / NTP - Sidestream Centrate Treatment - Canceled - Re-bid	90	0	10-Jan-18 A	23-Aug-18 A	100										1														į.
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Re-Bid / Advertise - Sidestream Centrate Treatment	29	0	24-Aug-18 A	21-Sep-18 A	100																								ł
Re-Bid Opening - Sidestream Centrate Treatment	1	0	25-Sep-18 A	25-Sep-18 A	100																								į.
Award / NTP - Sidestream Centrate Treatment	180	0	26-Sep-18 A	31-Dec-19 A	100											-	: :	-											ł
Construction - Sidestream Centrate Treatment	730	625	31-Dec-19 A	16-Mar-22*	14														;	1	1	1.1							
S35123-L39G - Level 1 BNR Improvements										-							1 1		-										i.
CM Contract						1.1.			111	·		;	-		1	11	11	71		1	T	777	1					100	ł
RFP / Advertise CM Services - Level 1 BNR Improvements	31	0	29-Jul-16 A	26-Aug-16 A	100																								
Award / NTP CMServices - Level 1 BNR Improvements	90	0	27-Aug-16 A	05-Jul-17 A	100							i					11												ł
Design Process			5							+		,]																	
Design - Level 1 BNR Improvements	120	0	30-Nov-15 A	23-Sep-16 A	100						: 1																		
Bid / Construction	120	5	001107	20 000 10/1	100					· +					<u>∤</u> }-		-i-i-		į		+	·							÷
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County Prepare Bid for Advertisement - Level 1 BNR Improvements	7		24-Sep-16 A	29-Sep-16 A	100																								1
Bid / Advertise - Level 1 BNR Improvements	29	0	30-Sep-16 A	11-Nov-16 A	100						1						1												<u>i</u>
Remaining Level of Effort Actual Work Actual Level of Effort Common Remaining W	/ork	_		Page 10	of 11	_		_	_	_		_	_	_	ŀ	ła	Z							А	D	S	_	_	_

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ty Nar	ne	Orig Dur	Rem Dur	Start	Finish	% Comp 2		2014 QQQQ	2015		2016	2017		2019			2021 2000	2022 QQQ	2023 2 9 0 0		024	20
	Bid Opening - Level 1 BNR Improvements	1	0	15-Nov-16 A	15-Nov-16 A	100														QQQ		P
	Award / NTP - Level 1 BNR Improvements	90	0	16-Nov-16 A	05-Jul-17 A	100																
	Construction - Level 1 BNR Improvements	913		05-Jul-17 A	30-Apr-20 A	100					-+-+-				·		+++++++++++++++++++++++++++++++++++++++		• • • • • • • • • • • • • • • • • • • •		+	+
	ong Beach WPCP Consolidation									-												
_	S35109-01G - Long Beach Pump Station																					
	Design Process																					
	Pump Station Final Design - Long Beach Pump Station (PMJV)	186	3	06-May-19 A	02-Jul-20	98																
	Bid / Construction	100	0	00 May 10 M	02 001 20	50													┆┼╌┼╌		+	ŀ
	County Prepare Bid for Advertisement - Long Beach Pump Station	7	7	03-Jul-20	09-Jul-20	0																
	Bid / Advertise - Long Beach Pump Station	29	29	17-Jul-20	14-Aug-20	0																
	Bid Opening - Long Beach Pump Station	1		18-Aug-20	18-Aug-20	0																
	Award / NTP - Long Beach Pump Station	185	185	18-Aug-20	18-Feb-21	0																
	Construction - Long Beach Pump Station	627	627	19-Feb-21	07-Nov-22*	0				- 									+			t
	S35109-01S - Long Beach HDD Force Main													-								
	Design Process													-								
	HDD Final Design - Long Beach HDD Force Main (PMJV)	186	106	06-May-19 A	13-Oct-20	43										i						
	Bid / Construction															* +						
	County Prepare Bid for Advertisement - Long Beach HDD Force Main	7	7	14-Oct-20	20-Oct-20	0										1	TTT					t
	Bid / Advertise - Long Beach HDD Force Main	29	29	23-Oct-20	20-Nov-20	0																
	Bid Opening - Long Beach HDD Force Main	1	1	24-Nov-20	24-Nov-20	0																
	Award / NTP - Long Beach HDD Force Main	181	181	25-Nov-20	24-May-21	0											•					
	Construction - Long Beach HDD Force Main	806	806	25-May-21	08-Aug-23*	0																
	S35109-01M - Long Beach Consolidation CM Contract														٦							[
	RFP / Advertise CM Services - Long Beach Consolidation	29	11	12-Jun-20 A	10-Jul-20	62																
	Award / NTP CM Services - Long Beach Consolidation	180	180	11-Jul-20	06-Jan-21	0																
	S35109-02G - Austin Boulevard Force Main									-				▼								
	Design Process									-												
	Prepare RFP - Austin Boulevard Force Main Design	7	0	05-Feb-16 A	10-Feb-16 A	100	11			I							TTT				11	1
	Issue RFP for On-Call Final Design - Austin Boulevard Force Main	15	0	11-Feb-16 A	26-Feb-16 A	100																
	Award / NTP Final Design - Austin Boulevard Fore Main Design	14	0	27-Feb-16 A	01-Jun-16 A	100																
	Final Design - Austin Boulevard Force Main	310	0	01-Jun-16 A	07-Sep-18 A	100																
	Bid / Construction													•								L
	County Prepare Bid for Advertisement - Austin Boulevard Force Main	7	0	08-Sep-18 A	13-Sep-18 A	100							1									
	Bid / Advertise - Austin Boulevard Force Main	29	0	14-Sep-18 A	09-Nov-18 A	100								l 🗄								
	Bid Opening - Austin Boulevard Force Main	1	0	13-Nov-18 A	13-Nov-18 A	100																
Ν	lilestones						-															f
	Program Management Award	0	0	12-Aug-13 A		100	٠															
	Program Management Complete	0	0		22-Jul-25	0	TT										TIT				T T	1

Remaining Level of Effort

Actual Work

Remaining Work

Page 11 of 11



Actual Level of Effort

Project Glossary

Agreement Project Name	County Project Name	County Project Number
Barnes Avenue – Baldwin	Village of Hempstead Wastewater Pump Station	S3P311-09G
	Village of Hempstead Force Main	S3P311-09S
Raw sewage pumping facility	Raw Sewage Pumping Facility Improve- ments	S35121-03G
Sludge dewatering facilities	Sludge Dewatering Facilities Improvements	S35121-09G
Effluent Screening and disinfec- tion	Effluent Screening and Disinfection Facility Improvements	\$35121-11G
Effluent tide pumping facilities	Effluent Pumping Facility Improvements	S35121-12G
Electrical Distribution Phase E1- E3	Phase E3 Main Substation and Electrical Distribution	\$35121-14F
Secondary Flood Protection	Secondary Flood Protection and Hardening of Critical Facilities	\$35121-16G
Stormwater Pump Stations	Flood Protection Phase I – Stormwater Pumping Stations	\$35121-18G
Upgrade to 3 Generator Opera- tion	Engine Generator Facility Auxiliary Im- provements	S35121-16A
Hot water piping system	Permanent HW/CW Piping System	S35121-16P
Cedar Dr, Roosevelt et al PS	Cedar Drive, Roosevelt, Whitewood, Bilt- more and Alhambra Pump Station Repairs	S3P311-02G
Wantagh, Newbridge et al PS	Wantagh, Newbridge Road, Merrick Road and Ray Street Pump Station Repairs	S3P311-03G
Ocean Ave, Mill Rd et al PS	Ocean Avenue, Mill Road, Woodmere Boulevard and Longacre Pump Station Re- pairs	S3P311-06G
Inwood, Doughty et al PS	Inwood, Bayview Avenue and Doughty Boulevard Pump Station Repairs	S3P311-07G
Lawrence & Sage Lake PS	Sage Lake and Lawrence Pump Stations Mitigation and Repair	S3P311-10G
East Avenue Ejector Station	East Avenue Pump Station Repairs	S3P311-08G
Level 1 BNR	Level 1 BNR Improvements	S35123-L39G
Sidestream Deammonification	Sidestream Centrate Treatment	S35123-L38G

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Vincent Falkowski, PE, PMP, CCM	Deputy Commissioner
Permittee (Per CRF 122.22)	Title
Vincent fallound.	7/28/2020
Signature	Date Signed