

November 2, 2020

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

Agreement DEC Index No: CO 1-20170626-244

Bay Park Sewage Treatment Plant  
**2020 Q3 Quarterly Report**

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Dear Mr. Hampston:

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

Very truly yours,



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

<b>c:</b>	<b>NCDPW</b> <i>Kenneth Arnold</i> <i>Edward Visone</i> <i>Jane Houdek</i> <i>Karen Fay</i> <i>Elisa Picca</i>	<b>Hazen and Sawyer</b> <i>Mark Hanson</i> <i>Paul Saurer</i> <i>Eric Mills</i> <i>Tom Zakrzewski</i>	<b>ARCADIS</b> <i>Peter Glus</i> <i>Greg Bazydola</i> <i>Maryanne Dioquino</i>	<b>DEC</b> <i>Anthony Leung</i> <i>Katie French</i> <i>Paul Harding</i> <i>Brian Lee</i> <i>Josh Lin</i> <i>Ryan Waldman</i>
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# DEC Agreement Q3 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 July 1, 2020 through September 30, 2020.

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

## I.0

## Executive Summary

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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 July 1, 2020 through September 30, 2020 (“Reporting Quarter”).

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

## II.0

## Modification Request and Force Majeure Status

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

**Table 1 – Modification Requests and Force Majeure Notifications**

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

1. Bold denotes current date, italic superseded
2. Force Majeure

### III.0

## Notice of Violation Status

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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) were granted Notice to Proceed in December, 2019, and the third (Effluent Screening Facility Improvements) was notified of Notice to Proceed in October, 2020.

## IV.0

## Design Milestone Status

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

**Table 2 – Design Completion Milestones**

<b>Milestone</b>	<b>Agreement Date</b>	<b>Actual/Forecast</b>
Effluent Screening and Disinfection	4/8/2018	1/5/2018 *
East Avenue Ejector Station	2/8/2018	3/2/2018 *

*\*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.

**Table 3 – Construction NTP Milestones**

Milestone	Agreement Date	Actual/Forecast
Raw Sewage Pumping Facility	11/23/2019	1/25/2021
Effluent Screening and Disinfection	10/5/2019	11/4/2020 A
Secondary Flood Protection	7/20/2019	12/18/2019 A
East Avenue Ejector Station	11/23/2019	11/2/2020 A
Sidestream Deammonification	7/20/2019	12/31/2019 A

**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	12/27/2022	0%
5 Effluent Tide Pumping Facilities	1/15/2021	5/5/2020 A	100%
6 Electrical Distribution Phase E1-E3	9/21/2019	9/1/2020 A	100%
7 Secondary Flood Protection	8/15/2021	8/11/2021	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	4/25/2022	0%
16 Level 1 BNR	5/14/2020	4/30/2020 A	100%
17 Sidestream Deammonification	7/8/2021	2/8/2022	20%

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



## **Project Notes:**

### **1. Barnes Avenue – Baldwin**

This project has been completed and milestone certification accepted.

### **2. Raw Sewage Pumping Facility**

#### Progress This Quarter:

The County continued with the award process with the second low bidder.

#### 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 has been completed and milestone certification accepted.

### **4. Effluent Screening and Disinfection**

#### Progress This Quarter:

Notice to proceed was issued to the contractor for a kickoff date of November 4, 2020.

#### Expected Progress Next Quarter

The contractor will mobilize and commence work.

### **5. Effluent Tide Pumping Facilities**

The project achieved substantial completion April 30, 2020, before the milestone date. Certification was accepted October 29, 2020.

### **6. Electrical Distribution System Phases E1-E3**

Phases E1 and E2 were completed 10/19/2016 and 9/29/2017, respectively, and substantial completion for Phase E3 was achieved 9/1/2020.

#### Progress This Quarter:

- Continued to process Contractor's submittals including as-built drawings.
- Completed installation of conduit labels and Arc Flash labels.
- Continued to turn over keys for MSS building and equipment.
- Continued Spare Parts turn-over.
- Continued O&M Manual turnover
- Continued to work on punch list for Plumbing, HVAC and Electrical.

#### Expected Progress Next Quarter:

- Complete punch list work.
- Turn over outstanding Spare Parts.
- Complete & turn over outstanding O&M Manuals.
- Complete & turn over outstanding as-built drawings

## **7. Secondary Flood Protection**

### Progress This Quarter:

- Completed concrete for exterior flood walls at the Primary Pump Station No. 1.
- Demolished existing masonry for the installation of the coping stone at Primary Pump Station No. 1.
- Completed the installation of the exterior brick at the Dechlorination Building.
- Completed the installation of the exterior brick at the Fire Protection Building.
- Re-installed the hot water piping on the east and west exterior walls of the Fire Protection Building.
- Installed reinforcing steel and placed concrete for the Sludge Control Building exterior flood wall on the south, west and east sides of the building.
- Began the reinstallation of the electrical equipment inside the Tunnel Access Structure.
- Re-installed the temporary hot water supply and return piping between Digestor Nos. 3 and 4 on the east side of the Sludge Control Building.
- Re-installed conduits, cables, and panels in the electrical room of the Aeration Building No. 1.
- Began the re-installation of electrical equipment, wiring and conduit on the exterior south wall of the Return Activated Sludge Building.
- Demolished railings, curbs, and windows at Primary Pump Stations Nos. 2 and 3.
- Installed reinforcing steel bars and placed concrete for the flood walls at Primary Pump Station No. 2.
- Began the installation of the exterior brick at Primary Pump Station No. 1.
- Continued to submit shop drawings, RFI's and subcontractor/vendors for approval.

### Expected Progress Next Quarter:

- Continue electrical work at the Tunnel Access Structure.
- Continue electrical work at the RAS Building.
- Continue working on the flood walls at the Sludge Control Building.
- Finish masonry for the flood walls at Fire Protection Building.
- Continue installing bricks for the flood walls at the Primary Pump Station No. 1.
- Continue working on concrete for the interior flood walls at the Primary Pump Station No. 3.
- Start painting inside the Sludge Thickening Building.
- Offset the H/C water piping in the Main Building Basement.
- Install coping stone for the exterior flood walls at the RAS Building, Fire Protection and Dechlor Buildings.
- Continue to submit shop drawings, RFI's and subcontractor/vendors for approval.

## **8. Stormwater Pump Stations**

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

**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.

**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**

Notice to proceed was issued in October for a November 2, 2020 kickoff.

**16. Level 1 BNR**

The project was granted substantial completion on April 30, 2020, and milestone certification was submitted last quarter and accepted by DEC this quarter.

**17. Sidestream Deammonification**

Progress This Quarter:

- Continued underground utility relocation.
- Continued submission of general conditions items and technical submittals.
- Continued site excavation.
- Continued chemical and process air piping installation within the Sludge Dewatering Building.
- Continued electric conduit installation within the Sludge Dewatering Building.
- Continued formwork and rebar installation for Deammonification Tank. Placed Pile cap slab for Deammonification Tank.
- Started Excavation for EQ Tank.
- Activated dewatering system.

Expected Progress Next Quarter:

- Continue site layout.
- Continue submittals.
- Continue mechanical, plumbing, and electric work within the Sludge Dewatering Building.
- Continue EQ Tank excavation.
- Place mud slab for EQ Tank.
- Start reinforcement and concrete for EQ Tank pile cap slab.
- Continue reinforcement and concrete placement for Deammonification Tank walls.

## VI.0

# Inter Municipal Agreement

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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 was completed, was advertised and bids received October 26, 2020. The force main design is approaching the 90% stage and is projected to advertise in February of 2021.

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 was made. The County will advance the award of this contract 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.

## VII.0

## Nitrogen Interim Limit Schedule of Compliance

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

**Table 5 – Bay Park WPCP Interim Nitrogen Limits**

<b>Description of Work for Nitrogen Removal Project</b>	<b>Completion Date</b>
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 start-up period was initiated on June 1, 2020 as per the schedule and has continued through the quarter. The startup period will conclude in December, 2020 and the performance period will begin January 1, 2021.

## VIII.0

## Diversion Project

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

**Table 6 – Diversion Project Milestones**

<b>Description of Work</b>	<b>Completion Date</b>
Slip lining of aqueduct along Sunrise Highway	November 2019
Diversion Project Report	January 2018
Design Start	TBD
Design Completion	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

Progress This Quarter:

The DEC released the final decision on alternative technical concepts (ATCs) to Proposers. Final addendum was issued. Technical and price proposals were submitted. Ongoing public and local stakeholders (legislators, etc.) outreach continued.

Expected Progress Next Quarter:

The State and County will undergo negotiations with the Best Value Proposer. The Design-Builder is anticipated to sign the contract on November 6, 2020 which will start the County and State approval processes.

Project Milestones:

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

## IX.0

# Environmental Benefit Projects

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The County's designer submitted the scope application to DEC for review. DEC responded with comments. The designer is in the process of acquiring all necessary information for response to DEC. The only outstanding information pertains to naming the plant species that will be impacted by the project. The arborist will need to visit the site again to complete the list. In the next quarter, approval of the plan is anticipated and design will continue.



X.0

## Certification of Completed Activities

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

**Table 7 – Completed Activities**

Milestone	Date Completed	Certification Submitted	Certification Accepted
Effluent Screening and Disinfection – Design	1/5/2018	7/5/2018	9/13/2018
East Avenue Ejector Station - Design	3/2/2018	7/5/2018	9/13/2018
Cedar Dr, Roosevelt et al PS - CC	1/12/2018	7/5/2018	11/27/2018
Wantagh, Newbridge et al PS – CC	2/12/2018	7/5/2018	11/27/2018
Sage Lake and Lawrence PS – CC	8/13/2018	8/24/2018	11/27/2018
Ocean Ave, Mill Road et al PS – CC	8/17/2018	9/19/2018	11/27/2018
Sludge Dewatering Facilities – CC	10/12/2018	10/24/2018	1/4/2019
Inwood, Doughty et al PS – CC	2/19/2019	2/28/2019	5/1/2019
Stormwater Pump Stations – CC	3/28/2019	4/3/2019	4/19/2019
Upgrade to 3 Generator Operation – CC	8/30/2019	9/12/2019	11/7/2019
Barnes Ave-Baldwin - CC	11/22/2019	11/25/2019	2/25/2020
Electrical Distribution Upgrades – CC	9/1/2020	10/23/2020	
Secondary Flood Protection – NTP	12/18/19	12/31/19	
Sidestream Deammonification – NTP	12/31/19	12/31/19	
East Avenue PS NTP	10/29/20	10/29/20	
Effluent Screening and Disinfection NTP	10/29/20	10/29/20	
Level 1 BNR – CC	4/30/20	5/5/20	10/30/2020
Effluent Pumping Facility – CC	5/5/20	6/10/20	10/30/2020
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	

## XI.0

# Community Relations

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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 been ongoing. Virtual project information sessions were initiated in July 2020 and outreach to property owners where easements may be required began in June 2020 and has been ongoing.

The NEPA Environmental Assessment (EA) outreach was initiated, where the County coordinated 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. A Final EA was completed and posted to the FEMA and County websites on October 14, 2020. FEMA approved the Finding of No Significant Impact (FONSI) on October 29, 2020, thereby concluding the NEPA process.

XII.0

## Attachments





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1. Program Master Schedule

Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Bay Park Master Schedule 201031</b>																		
<b>Existing Capital Projects</b>																		
<b>S3B119-05G - Generator Controls</b>																		
Design																		
Design - Generator Controls	74	0	21-Oct-13 A	22-Apr-14 A	100													
Procurement																		
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													
<b>S3B120-01G - Influent Screening Facility Improvements</b>																		
CM Contract																		
RFP / Advertise CM Services - Influent Screening	30	0	20-Apr-13 A	24-May-13 A	100													
Award / NTP CM Services - Influent Screening	40	0	25-May-13 A	06-Jan-14 A	100													
Construction Contract																		
Bid / Advertise - Influent Screening	40	0	14-Oct-13 A	26-Nov-13 A	100													
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													
<b>S3B120-02G - Grit Removal Facility Improvements</b>																		
CM Contract																		
RFP / Advertise CM Services - Grit Removal	30	0	07-Oct-13 A	25-Oct-13 A	100													
Award / NTP CM Services - 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													
Bid / Advertise - Grit Removal	56	0	24-Feb-14 A	21-Mar-14 A	100													
Bid Opening - Grit Removal	1	0	25-Mar-14 A	25-Mar-14 A	100													
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													
<b>S35100-01G - Cleaning &amp; Repair of Digesters &amp; Storage Tanks</b>																		
Construction																		
Construction - Digester Cleaning	720	0	20-May-13 A	16-Apr-15 A	100													
<b>S35114-03G - Sludge Thickening Facility Improvements</b>																		
CM Contract																		
RFP / Advertise CM Services - Sludge Thickening	30	0	21-Aug-13 A	09-Sep-13 A	100													
Award / NTP CM Services - Sludge Thickening	30	0	10-Sep-13 A	25-Mar-14 A	100													
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													
<b>S35116-01G - Odor Control at Bay Park &amp; Cedar Creek</b>																		
CM Contract																		
RFP / Advertise CM Services - Odor Control BP & CC WPCPs	20	0	21-Aug-13 A	09-Sep-13 A	100													
Award / NTP CM Services - Odor Control BP & CC WPCPs	30	0	10-Sep-13 A	10-Mar-14 A	100													
Construction Contract																		
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													
<b>Hurricane Sandy Projects</b>																		
<b>FEMA Approval Process</b>																		
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													
FEMA Scope and Cost Negotiation	90	0	20-Dec-13 A	15-Jan-14 A	100													

■ Remaining Level of Effort    ■ Actual Work  
■ Actual Level of Effort    ■ Remaining Work

Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>S35121-01G/E - Final Settling Tank Rehabilitation</b>																		
<b>Construction Contract</b>																		
Award / NTP - Final Tank Rehabilitation	64	0	21-Aug-13 A	23-Oct-13 A	100													
Construction - Final Tank Rehabilitation	730	0	28-Oct-13 A	13-May-16 A	100													
<b>CM Contract</b>																		
RFP / Advertise CM Services - Final Tank Rehabilitation	30	0	21-Aug-13 A	09-Sep-13 A	100													
Award / NTP CM Services - Final Tank Rehabilitation	30	0	10-Sep-13 A	10-Feb-14 A	100													
<b>S35121-03G - Raw Sewage Pumping Facility</b>																		
<b>CM Contract</b>																		
RFP / Advertise CM Services - Raw Sewage Pumping Facility	29	0	01-Feb-19 A	01-Mar-19 A	100													
Award / NTP CM Services - Raw Sewage Pumping Facility	180	93	02-Mar-19 A	31-Jan-21	48													
<b>Design Process</b>																		
Finalize Technical Memorandum - Influent Screens & RPS	45	0	21-Apr-14 A	30-Jun-14 A	100													
Preliminary Design - Raw Sewage Pumping Facility	88	0	01-Jul-14 A	23-Feb-15 A	100													
RFP / Advertise Final Design - Raw Sewage Pumping Facility	29	0	27-Feb-15 A	27-Mar-15 A	100													
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													
<b>Bid / Construction</b>																		
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													
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													
Award / NTP - Raw Sewage Pumping Facility to 2nd Low Bidder	180	93	13-Jun-20 A	31-Jan-21	48													
Construction - Raw Sewage Pumping Facility	899	899	01-Feb-21	19-Jul-23*	0													
<b>S35121-09G - Sludge Dewatering</b>																		
<b>CM Contract</b>																		
RFP / Advertise CM Services - Dewatering Demo & Improvement	22	0	04-Apr-14 A	25-Apr-14 A	100													
Award / NTP CM Services - Dewatering Demo & Improvement	90	0	29-Apr-14 A	22-Sep-14 A	100													
<b>Design Process</b>																		
Finalize Technical Memorandum - Dewatering	45	0	12-Aug-13 A	22-Nov-13 A	100													
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													
Award / NTP Final Design - Dewatering	80	0	08-Feb-14 A	07-Jul-14 A	100													
Final Design - Dewatering	200	0	07-Jul-14 A	03-Apr-15 A	100													
<b>Centrifuge Pilot Testing</b>																		
Alfa Laval Centrifuge Pilot	5	0	02-Jun-14 A	11-Jun-14 A	100													
GEA Westfalia Centrifuge Pilot	5	0	23-Jun-14 A	27-Jun-14 A	100													
Andritz Centrifuge Pilot	5	0	07-Jul-14 A	11-Jul-14 A	100													
Flottweg Centrifuge Pilot	5	0	14-Jul-14 A	18-Jul-14 A	100													
Centrisys Centrifuge Pilot	5	0	21-Jul-14 A	25-Jul-14 A	100													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Dewatering	7	0	03-Apr-15 A	09-Apr-15 A	100													
Bid / Advertise - Dewatering	29	0	10-Apr-15 A	15-May-15 A	100													
Bid Opening - Dewatering	1	0	19-May-15 A	19-May-15 A	100													
Award / NTP - Dewatering	90	0	20-May-15 A	07-Dec-15 A	100													
Construction - Dewatering	913	0	07-Dec-15 A	21-May-19 A	100													
<b>S35121-09R - Sludge Dewatering Demolition</b>																		
<b>Design Process</b>																		
100% Design - Dewatering Demolition	89	0	02-Jan-14 A	31-Mar-14 A	100													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Dewatering Demolition	7	0	01-Apr-14 A	03-Apr-14 A	100													
Bid / Advertise - Dewatering Demolition	29	0	04-Apr-14 A	09-May-14 A	100													
Bid Opening - Dewatering Demolition	1	0	13-May-14 A	13-May-14 A	100													
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													

 Remaining Level of Effort	 Actual Work
 Actual Level of Effort	 Remaining Work

Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>S35121-11G - Effluent Screening &amp; Disinfection</b>																		
<b>CM Contract</b>																		
RFP / Advise CM Services - Effluent Screening & Disinfection	29	0	01-Feb-19 A	01-Mar-19 A	100													
Award / NTP CM Services - Effluent Screening & Disinfection	180	0	02-Mar-19 A	27-Oct-20 A	100													
<b>Design Process</b>																		
Finalize Technical Memorandum - 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 / Advise Final Design - Effluent Screening & Disinfection	29	0	29-Jan-16 A	26-Feb-16 A	100													
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													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Effluent Screening & Disinfection	7	0	01-Jul-18 A	07-Jul-18 A	100													
Bid / Advise - 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													
Award / NTP - Effluent Screening & Disinfection	180	5	15-Aug-18 A	04-Nov-20	97													
Construction - Effluent Screening & Disinfection	784	784	04-Nov-20	27-Dec-22*	0													
<b>S35121-12G - Effluent Pumping Facility Improvements</b>																		
<b>CM Contract</b>																		
RFP / Advise CM Services - Effluent Tide PB	29	0	01-May-15 A	29-May-15 A	100													
Award / NTP CM Services - Effluent Tide PB	90	0	30-May-15 A	24-Aug-17 A	100													
<b>Design Process</b>																		
Finalize Technical Memorandum - 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													
RFP / Advise 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													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Effluent Tide PB	7	0	08-Jul-15 A	14-Jul-15 A	100													
Bid / Advise - 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													
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													
<b>S35121-13E - Phase E1 Electrical Distribution Systems Improvements</b>																		
<b>CM Contract</b>																		
RFP / Advise CM Services - Phase E1 EDS	30	0	02-Jan-14 A	24-Jan-14 A	100													
Award / NTP CM Services - Phase E1 EDS	90	0	25-Jan-14 A	07-Jul-14 A	100													
<b>Design Process</b>																		
Phase E1 Design	119	0	15-Aug-13 A	11-Dec-13 A	100													
Finalize Technical Memorandum - Phase 1 EDS	45	0	12-Aug-13 A	03-Jan-14 A	100													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Phase E1 EDS	7	0	12-Dec-13 A	19-Dec-13 A	100													
Bid / Advise - Phase E1 EDS	30	0	20-Dec-13 A	31-Jan-14 A	100													
Bid Opening - Phase E1 EDS	1	0	06-Feb-14 A	06-Feb-14 A	100													
Award / NTP - Phase E1 EDS	76	0	07-Feb-14 A	27-May-14 A	100													
Construction - Phase E1 EDS	670	0	27-May-14 A	19-Oct-16 A	100													
<b>S35121-14E - Phase E2 Unit Substation No. 2 &amp; Electrical Distribution</b>																		
<b>Design Process</b>																		
Phase E2 Design - EDS - USS No. 2	155	0	04-Apr-14 A	18-Aug-14 A	100													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - EDS Phase E2 - USS No. 2	7	0	21-Aug-14 A	27-Aug-14 A	100													
Bid / Advise - EDS Phase E2 - USS No. 2	29	0	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													
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													
<b>S35121-14F - Phase E3 Main Substation &amp; Electrical Distribution</b>																		

■ Remaining Level of Effort    ■ Actual Work  
■ Actual Level of Effort       ■ Remaining Work

Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Design Process</b>																		
Phase E3 Design - EDS - Main Substation	285	0	01-Apr-14 A	09-Feb-15 A	100		■	■										
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - EDS Phase E3 - MSS	7	0	10-Feb-15 A	12-Feb-15 A	100			■										
Bid / Advertise - EDS Phase E3 - Main Substation	36	0	13-Feb-15 A	17-Apr-15 A	100		■											
Bid Opening - EDS Phase E3 - Main Substation	1	0	21-Apr-15 A	21-Apr-15 A	100													
Award / NTP - EDS Phase E3 - Main Substation	90	0	22-Apr-15 A	05-Oct-15 A	100			■										
Construction - Phase E3 - Main Substation	1095	0	05-Oct-15 A	01-Sep-20 A	100				■	■	■	■	■	■	■	■	■	■
<b>S35121-14M - Phase E2 &amp; E3 Construction Management</b>																		
<b>CM Contract</b>																		
RFP / Advertise CM Services - Electrical Phase E2 & E3	29	0	25-Jul-14 A	22-Aug-14 A	100		■											
Award / NTP CM Services - Electrical Phase E2 & E3	90	0	23-Aug-14 A	08-Jun-15 A	100		■											
<b>S35123-L33E - Phase E4 Electrical Utility Connections</b>																		
<b>Design Process</b>																		
Preliminary Design - Phase E4 Electrical Utility Connections	90	0	15-Dec-17 A	04-Jun-18 A	100						■							
RFP / Advertise - Final Design - 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								■					
Final Design - Phase E4 Electrical Utility Connections	180	0	22-Jan-20 A	16-Sep-20 A	100									■				
PSE&G Coordination	5	724	12-Aug-13 A	24-Oct-22	0													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Phase E4 Electrical Utility Connection	7	0	17-Sep-20 A	24-Sep-20 A	100													
Bid / Advertise - Phase E4 Electrical Utility Connections	29	0	25-Sep-20 A	23-Oct-20 A	100													
Bid Opening - Phase E4 Electrical Utility Connections	1	0	27-Oct-20 A	27-Oct-20 A	100													
Award / NTP - Phase E4 Electrical Utility Connections	180	177	28-Oct-20 A	25-Apr-21	2													
Construction - Phase E4 Electrical Utility Connections	548	548	25-Apr-21	24-Oct-22*	0													
Energize & Commission PSEGLI Power	184	184	25-Oct-22	26-Apr-23*	0													
<b>S35121-16A - Engine Facility Auxiliary Upgrades</b>																		
<b>Design Process</b>																		
Final Design - Engine Facility Auxiliary Upgrades	195	0	01-Nov-15 A	30-Sep-16 A	100													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Engine Facility Auxiliary Upgrades	21	0	30-Sep-16 A	20-Oct-16 A	100													
Bid / Advertise - Engine Facility Auxiliary Upgrades	29	0	21-Oct-16 A	18-Nov-16 A	100													
Bid Opening - Engine Facility Auxiliary Upgrades	1	0	22-Nov-16 A	22-Nov-16 A	100													
Award / NTP - Engine Facility Auxiliary Upgrades	90	0	23-Nov-16 A	05-Jul-17 A	100													
Construction - Engine Facility Auxiliary Upgrades	365	0	05-Jul-17 A	30-Aug-19 A	100													
<b>S35121-16G - Secondary Flood Protection &amp; Hardening of Critical Facilities</b>																		
<b>CM Contract</b>																		
RFP / Advertise CM Services - Secondary Flood Protection	29	0	28-Jul-17 A	25-Aug-17 A	100													
Award / NTP CM Services - Secondary Flood Protection	90	0	26-Aug-17 A	02-Dec-19 A	100													
<b>Design Process</b>																		
Preliminary Design - Secondary Flood Protection	90	0	01-Dec-14 A	29-Oct-15 A	100													
Finalize Technical Memorandum - Secondary Flood Protection	45	0	21-Apr-14 A	29-Oct-15 A	100													
RFP / Advertise Final Design - Secondary Flood Protection	29	0	30-Oct-15 A	04-Dec-15 A	100													
Award / NTP Final Design - Secondary Flood Protection	90	0	05-Dec-15 A	08-Nov-16 A	100													
Final Design - Secondary Flood Protection	210	0	09-Nov-16 A	07-Jul-17 A	100													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Secondary Flood Protection	7	0	10-Jul-17 A	27-Jul-17 A	100													
Bid / Advertise - Secondary Flood Protection	29	0	27-Oct-17 A	01-Dec-17 A	100													
Bid Opening - Secondary Flood Protection	1	0	05-Dec-17 A	05-Dec-17 A	100													
Award / NTP - Secondary Flood Protection	90	0	06-Dec-17 A	18-Dec-19 A	100													
Construction - Secondary Flood Protection	730	341	18-Dec-19 A	06-Oct-21*	53													
<b>S35121-16P - Heating Hot Water Piping Permanent System</b>																		
<b>CM Contract</b>																		
RFP / Advertise CM Services - Heating Hot Water Piping Permanent System	29	29	16-Mar-21	13-Apr-21	0													
Award / NTP CM Services - Heating Hot Water Piping Permanent System	190	190	14-Apr-21	20-Oct-21	0													

■ Remaining Level of Effort    ■ Actual Work  
■ Actual Level of Effort       ■ Remaining Work



Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Design Process</b>																		
Preliminary Design - Heating Hot Water Piping Permanent System	90	0	02-Nov-15 A	09-Sep-16 A	100													
RFP / Advetise - 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	0	16-Nov-18 A	16-Sep-20 A	100													
Final Design - Heating Hot Water Piping Permanent System	196	165	16-Sep-20 A	13-Apr-21	16													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Hot/Chilled Water System Upgrades	7	7	14-Apr-21	20-Apr-21	0													
Bid / Advetise - Heating Hot Water Piping Permanent System	29	29	23-Apr-21	21-May-21	0													
Bid Opening - Heating Hot Water Piping Permanent System	1	1	25-May-21	25-May-21	0													
Award / NTP - Heating Hot Water Piping Permanent System	180	180	26-May-21	21-Nov-21	0													
Construction - Heating Hot Water Piping Permanent System	730	730	21-Nov-21	20-Nov-23*	0													
<b>S35121-16TR - Vehicle Fueling &amp; Tanks Reconstruction</b>																		
<b>Design Process</b>																		
Design - Vehide Fueling	53	0	10-Mar-14 A	02-May-14 A	100													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Vehicle Fueling	7	0	02-May-14 A	08-May-14 A	100													
Bid / Advetise - Vehicle Fueling	29	0	09-May-14 A	06-Jun-14 A	100													
Bid Opening - Vehide Fueling	1	0	10-Jun-14 A	10-Jun-14 A	100													
Re-Bid / Advetise - Vehicle Fueling	29	0	27-Mar-15 A	24-Apr-15 A	100													
Bid Opening - Vehide 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													
Construction - Vehide Fueling	274	0	13-Jun-16 A	30-Jan-18 A	100													
<b>S35121-16V - Dechlorination Vault Storm Mitigation</b>																		
<b>Design Process</b>																		
Design - Dechlor Sample Vault Hardening	180	0	27-Mar-15 A	22-Oct-15 A	100													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Dechlor Sample Vault Hardening	7	0	23-Oct-15 A	29-Oct-15 A	100													
Bid / Advetise - Dechlor Sample Vault Hardening	36	0	30-Oct-15 A	04-Dec-15 A	100													
Bid Opening - Dechlor Sample Vault Hardening	1	0	08-Dec-15 A	08-Dec-15 A	100													
Award / NTP - Dechlor Sample Vault Hardening	90	0	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													
<b>S35121-17G - Perimeter Flood Protection</b>																		
<b>CM Contract</b>																		
RFP / Advetise CM Services - Perimeter Flood Protection	30	0	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													
<b>Design Process</b>																		
Geotech Borings - Perimeter Flood Protection	85	0	12-Aug-13 A	17-Dec-13 A	100													
Permitting (EAS) - Perimeter Flood Protection	125	0	12-Aug-13 A	17-Dec-13 A	100													
Berm Design - Perimeter Flood Protection	83	0	26-Sep-13 A	17-Dec-13 A	100													
Finalize Technical Memorandum - Perimeter Flood Protection	45	0	12-Aug-13 A	17-Dec-13 A	100													
Public Review/Comment Period	30	0	17-Dec-13 A	16-Jan-14 A	100													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Perimeter Flood Protection	7	0	17-Jan-14 A	23-Jan-14 A	100													
Bid / Advetise - 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													
<b>S35121-18G - Flood Protection Phase 1 Stormwater Pumping Stations</b>																		
<b>CM Contract</b>																		
RFP / Advetise CM Services - Flood Protection Phase 1 Stormwater PS	29	0	31-Jul-15 A	28-Aug-15 A	100													
Award / NTP CM Services - Flood Protection Phase 1 Stormwater PS	90	0	29-Aug-15 A	17-Jun-16 A	100													
<b>Design Process</b>																		

█ Remaining Level of Effort    █ Actual Work  
█ Actual Level of Effort    █ Remaining Work





Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>S3P311 - Pump Stations</b>																			
<b>S3P311-01G - Dock Place &amp; Southland Drive</b>																			
<b>Construction</b>																			
Construction - Dock Place & Southland Drive Pump Stations	240	0	28-Oct-13 A	31-Oct-14 A	100														
<b>S3P311-02G - Cedar, Roosevelt, Whitewood, Biltmore &amp; Alhambra</b>																			
<b>Design Process</b>																			
Finalize Technical Memorandum - Pump Station 2	140	0	12-Aug-13 A	22-Nov-13 A	100														
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														
Award / NTP Final Design - Pump Station 2	90	0	01-Mar-14 A	23-Sep-14 A	100														
Final Design - Pump Station 2	90	0	23-Sep-14 A	26-Mar-15 A	100														
<b>Bid / Construction</b>																			
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	0	10-Apr-15 A	08-May-15 A	100														
Bid Opening - Pump Station 2	1	0	12-May-15 A	12-May-15 A	100														
Award / NTP - Pump Station 2	90	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														
<b>S3P311-03G - Wantagh, Newbridge, Merrick &amp; Ray</b>																			
<b>Design Process</b>																			
Finalize Technical Memorandum - Pump Station 3	140	0	12-Aug-13 A	22-Nov-13 A	100														
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														
Final Design - Pump Station 3	90	0	23-Sep-14 A	13-Apr-15 A	100														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Pump Station 3	7	0	14-Apr-15 A	30-Apr-15 A	100														
Bid / Advertise - Pump Station 3	29	0	01-May-15 A	29-May-15 A	100														
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														
<b>S3P311-02M - PS2 &amp; PS3 Construction Management</b>																			
<b>CM Contract</b>																			
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														
<b>S3P311-04G - Felix, Fox, Northern &amp; Grand</b>																			
<b>Design Process</b>																			
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														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Pump Station 4	7	0	13-Mar-15 A	19-Mar-15 A	100														
Bid / Advertise - Pump Station 4	29	0	20-Mar-15 A	17-Apr-15 A	100														
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														
Construction - Pump Station 4	420	0	16-Nov-15 A	29-Aug-17 A	100														
<b>S3P311-05G - Millar, Mott, Long Beach, Royal &amp; Lido</b>																			
<b>Design Process</b>																			
Finalize Technical Memorandum - Pump Station 5	140	0	12-Aug-13 A	22-Nov-13 A	100														
Preliminary Design - Pump Station 5	67	0	23-Jan-14 A	27-Mar-14 A	100														
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														

█ Remaining Level of Effort    █ Actual Work  
█ Actual Level of Effort    █ Remaining Work

Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Bid / Construction</b>																		
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													
Construction - Pump Station 5	540	0	16-Nov-15 A	29-Aug-17 A	100													
<b>S3P311-04M - PS4 &amp; PS5 Construction Management</b>																		
<b>CM Contract</b>																		
RFP / Advertise CM Services - PS4 & PS5	29	0	07-Nov-14 A	05-Jan-15 A	100													
Award / NTP CM Services - PS4 & PS5	90	0	06-Jan-15 A	16-Nov-15 A	100													
<b>S3P311-06G - Ocean, Mill, Woodmere &amp; Longacre</b>																		
<b>Design Process</b>																		
Finalize Technical Memorandum - Pump Station 6	140	0	12-Aug-13 A	22-Nov-13 A	100													
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													
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													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Pump Station 6	7	0	18-Sep-15 A	24-Sep-15 A	100													
Bid / Advertise - Pump Station 6	29	0	25-Sep-15 A	23-Oct-15 A	100													
Bid Opening - Pump Station 6	1	0	27-Oct-15 A	27-Oct-15 A	100													
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													
<b>S3P311-07G - Inwood, Doughty, Bayview &amp; Roslyn</b>																		
<b>Design Process</b>																		
Finalize Technical Memorandum - Pump Station 7	140	0	12-Aug-13 A	22-Nov-13 A	100													
Preliminary Design - Pump Station 7	67	0	23-Mar-14 A	28-May-14 A	100													
RFP / Advertise Final Design - Pump Station 7	29	0	30-May-14 A	27-Jun-14 A	100													
Award / NTP Final Design - Pump Station 7	90	0	28-Jun-14 A	13-May-15 A	100													
Final Design - Pump Station 7	90	0	13-May-15 A	16-Nov-15 A	100													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Pump Station 7	7	0	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													
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													
<b>S3P311-06M - PS6 &amp; PS7 Construction Management</b>																		
<b>CM Contract</b>																		
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													
<b>S3P311-08G - East Avenue</b>																		
<b>CM Contract</b>																		
RFP / Advertise CM Services - East Avenue Pump Station	29	0	08-Mar-19 A	05-Apr-19 A	100													
Award / NTP CM Services - East Avenue Pump Station	180	0	06-Apr-19 A	27-Oct-20 A	100													
<b>Design Process</b>																		
Prepare Flow Study & Technical Memorandum - Pump Station 8	27	0	18-Dec-15 A	14-Jul-16 A	100													
RFP / Advertise - Pump Station 8	29	0	15-Jul-16 A	12-Aug-16 A	100													
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													
<b>Bid / Construction</b>																		
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	3	09-Apr-19 A	02-Nov-20	98													
Construction - East Avenue Pump Station	540	540	02-Nov-20	25-Apr-22*	0													

█ Remaining Level of Effort    █ Actual Work  
█ Actual Level of Effort    █ Remaining Work

Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>S3P311-09G - Hempstead Wastewater Pumping Station</b>																		
<b>Design Process</b>																		
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	0	21-Dec-13 A	29-May-14 A	100													
Final Design - Hempstead Wastewater Pumping Station	185	0	18-Jun-14 A	24-Jun-15 A	100													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Hempstead Wastewater Pumping Sta	7	0	25-Jun-15 A	30-Jun-15 A	100													
Bid / Advertise - Hempstead Wastewater Pumping Station	29	0	03-Jul-15 A	14-Aug-15 A	100													
Bid Opening - Hempstead Wastewater Pumping Station	1	0	18-Aug-15 A	18-Aug-15 A	100													
Award / NTP - Hempstead Wastewater Pumping Station	90	0	19-Aug-15 A	25-Apr-16 A	100													
Construction - Hempstead Wastewater Pumping Station	460	0	25-Apr-16 A	22-Nov-19 A	100													
<b>S3P311-09S - Hempstead Wastewater Force Main</b>																		
<b>Design Process</b>																		
RFP / Advertise Final Design - Hempstead Wastewater Force Main	29	0	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													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Hempstead Wastewater Force Main	7	0	25-Jun-15 A	30-Jun-15 A	100													
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													
Award / NTP - Hempstead 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													
<b>S3P311-09M - Hempstead Wastewater Pumping Station &amp; Force Main CM</b>																		
<b>CM Contract</b>																		
RFP / Advertise CM Services - Hempstead Wastewater Pump Sta & FM	29	0	17-Oct-14 A	14-Nov-14 A	100													
Award / NTP CM Services - Hempstead Wastewater Pump Sta & FM	90	0	15-Nov-14 A	01-Feb-16 A	100													
<b>S3P311-10G - Lawrence PS (STP) &amp; Sage Lake PS</b>																		
<b>CM Contract</b>																		
RFP / Advertise CM Services - Lawrence STP & Sage Lake PS	28	0	25-Jan-16 A	22-Feb-16 A	100													
Award / NTP CM Services - Lawrence STP & Sage Lake PS	90	0	23-Feb-16 A	22-Mar-17 A	100													
<b>Design Process</b>																		
Preliminary Design - Lawrence STP & Sage Lake PS	75	0	02-Jun-14 A	12-Sep-14 A	100													
RFP / Advertise Final Design - Lawrence STP & Sage Lake PS	29	0	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													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Lawrence STP & Sage Lake PS	7	0	09-Apr-16 A	14-Apr-16 A	100													
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													
<b>S3P311-11G - Roslyn Village, Morgan Park &amp; Shore Road</b>																		
<b>CM Contract</b>																		
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	17	03-Nov-18 A	16-Nov-20	91													
<b>Design Process</b>																		
Preliminary Design - Roslyn Village, Morgan Park & Shore Rd	75	0	01-Mar-16 A	16-Jun-16 A	100													
RFP / Advertise Final Design - Roslyn Village, Morgan Park & Shore Rd	29	0	17-Jun-16 A	15-Jul-16 A	100													
Award / NTP Final Design - Roslyn Village, Morgan Park & Shore Rd	60	0	16-Jul-16 A	02-Feb-17 A	100													
Final Design - Roslyn Village, Morgan Park & Shore Rd	154	0	02-Feb-17 A	02-Aug-17 A	100													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Roslyn Village, Morgan Park & Shore	7	0	13-Oct-17 A	09-Nov-17 A	100													
Bid / Advertise - Roslyn Village, Morgan Park & Shore Rd	29	0	10-Nov-17 A	08-Dec-17 A	100													

█ Remaining Level of Effort    █ Actual Work  
█ Actual Level of Effort    █ Remaining Work



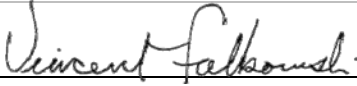


## XIII.0

## 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 Improvements	S35121-03G
Sludge dewatering facilities	Sludge Dewatering Facilities Improvements	S35121-09G
Effluent Screening and disinfection	Effluent Screening and Disinfection Facility Improvements	S35121-11G
Effluent tide pumping facilities	Effluent Pumping Facility Improvements	S35121-12G
Electrical Distribution Phase E1-E3	Phase E3 Main Substation and Electrical Distribution	S35121-14F
Secondary Flood Protection	Secondary Flood Protection and Hardening of Critical Facilities	S35121-16G
Stormwater Pump Stations	Flood Protection Phase I – Stormwater Pumping Stations	S35121-18G
Upgrade to 3 Generator Operation	Engine Generator Facility Auxiliary Improvements	S35121-16A
Hot water piping system	Permanent HW/CW Piping System	S35121-16P
Cedar Dr, Roosevelt et al PS	Cedar Drive, Roosevelt, Whitewood, Biltmore 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 Repairs	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
		11/2/2020
Signature		Date Signed