

July 29, 2019

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  
**2019 Q2 Quarterly Report**

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Dear Mr. Hampston:

We are submitting herewith our Quarterly Report for the period of April 1, 2019 through June 30, 2019.

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>John Domenica</i> <i>Jane Houdek</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>Cathy Haas</i> <i>Katie French</i> <i>Paul Harding</i> <i>Brian Lee</i> <i>Josh Lin</i>
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# DEC Agreement Q2 2019 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, 2019 through June 30, 2019.

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 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, 2019 through June 30, 2019 (“Reporting Quarter”).

The key personnel change to report this quarter is the addition of John Domenica as DPW Project Manager.

I.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 Facility NTP	12/3/2018	8/24/2018	5/15/2019	9/12/2018	<i>5/15/2019</i>
Raw Sewage Pumping Facility NTP	5/15/2019	5/3/2019	11/23/2019	7/1/2019	<b>11/23/2019</b>
Raw Sewage Pumping Facility CC	12/1/2020	8/24/2018	2/27/2022	9/12/2018	<b>2/27/2022</b>
Effluent Screening Facility NTP	8/21/2018	8/24/2018	2/21/2019	9/12/2018	<i>2/21/2019</i>
Effluent Screening Facility NTP	2/21/2019	5/3/2019	10/5/2019	7/1/2019	<b>10/5/2019</b>
Effluent Screening Facility CC	7/29/2020	8/24/2018	10/14/2021	9/12/2018	<b>10/14/2021</b>
Secondary Flood Protection NTP	6/5/2018	8/24/2018	2/15/2019	9/12/2018	<i>2/15/2019</i>
Secondary Flood Protection NTP	2/15/2019	5/3/2019	7/20/2019	7/1/2019	<b>7/20/2019</b>
Secondary Flood Protection CC	7/26/2020	8/24/2018	8/15/2021	9/12/2018	<b>8/15/2021</b>
Stormwater Pump Stations CC	3/31/2018	8/24/2018	3/31/2019	9/12/2018	<b>3/31/2019</b>
3 Generator Operation	11/30/2018	8/24/2018	3/31/2019	9/12/2018	<i>3/31/2019</i>
3 Generator Operation	3/31/2019	1/10/2019 <sup>2</sup>	5/19/2019	2/22/2019	<b>5/19/2019</b>
3 Generator Operation		5/6/2019 <sup>2</sup>		7/1/2019	
Hot Water Piping System Design, NTP, CC	Multiple	8/24/2018	Removal from Agreement	9/12/2018	Project Removed
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 CC	12/28/2019	8/24/2018	2/13/2021	9/12/2018	<b>2/13/2021</b>
Sidestream Deammonification NTP	6/12/2018	8/24/2018	3/25/2019	9/12/2018	<i>3/25/2019</i>
Sidestream Deammonification NTP	3/25/2019	5/3/2019	7/20/2019	7/1/2019	<b>7/20/2019</b>
Sidestream Deammonification CC	12/28/2019	8/24/2018	9/25/2021	9/12/2018	<b>7/8/2021</b>
Effluent Tide Pumping Facilities CC	5/28/2020	10/19/2018*	1/15/2021	12/20/2018	<b>1/15/2021</b>
Level 1 BNR CC		5/3/2019 <sup>2</sup>		7/1/2019	

1. <sup>1</sup> Bold denotes current date, italic superseded

2. <sup>2</sup> Force Majeure

## II.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.

## III.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**

<b>Milestone</b>	<b>Agreement Date</b>	<b>Actual/Forecast</b>
Raw Sewage Pumping Facility	11/23/2019	11/23/2019
Effluent Screening and Disinfection	10/5/2019	10/5/2019
Secondary Flood Protection	7/20/2019	10/5/2019
East Avenue Ejector Station	11/23/2019	11/23/2019
Sidestream Deammonification	7/20/2019	10/5/2019

**Table 4 – Construction Completion Milestones**

<b>Milestone</b>	<b>Agreement Date</b>	<b>Actual/Forecast</b>	<b>% Complete</b>
1 Barnes Avenue – Baldwin	12/31/2019	8/12/2019	98%
2 Raw Sewage Pumping Facility	2/27/2022	5/20/2022	0%
3 Sludge Dewatering Facilities	12/15/2018	10/12/2018 A	100%
4 Effluent Screening and Disinfection	10/14/2021	11/27/2021	0%
5 Effluent Tide Pumping Facilities	1/15/2021	5/4/2020	40%
6 Electrical Distribution Phase E1-E3	9/21/2019	1/23/2020	97%
7 Secondary Flood Protection	8/15/2021	8/28/2021	0%
8 Stormwater Pump Stations	3/31/2019	3/28/2019 A	100%
9 Upgrade To 3 Generator Operation	5/19/2019	8/26/2019	95%
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	5/15/2021	0%
16 Level 1 BNR	4/8/2020	4/23/2020	50%
17 Sidestream Deammonification	7/8/2021	8/28/2021	0%

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

## **Project Notes:**

### **1. Barnes Avenue – Baldwin**

This project is nearing completion is anticipated to be at substantial completion in August 2019, ahead of the milestone date.

#### Progress This Quarter:

Contract #S3P311-09S Hempstead Wastewater Force Main:

- Granted substantial completion May 19, 2019.

Contract #S3P311-09G Hempstead Wastewater Pumping Station:

- Installed groundwater dewatering system at for Weekes Park Connection.

#### Expected Progress Next Quarter:

S3P311-09S

- Contract close out.

S3P311-09G

- Installation of 12” Sanitary line at the HPS site from Weeks Park PS.
- Demobilization from the site.

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

This project did not meet the original NTP milestone date of May 15, 2019. A milestone modification request was submitted by the County to extend the NTP date to 11/23/19 which was accepted by DEC.

#### Progress This Quarter:

The County held the pre-award meeting with the low bid contractor and continued with the award process. The NTP is projected to be ahead of the modified milestone date of November 23, 2019.

#### Expected Progress Next Quarter:

The County will be continuing with the award process with goal of a Q3 2019 NTP.

### **3. Sludge Dewatering Facilities**

This project is nearing completion and is anticipated to achieve substantial completion in early Q3 2019. Substantial completion has been delayed by ongoing coordination with local agencies on the acceptance of the fire alarm system. All process equipment has been accepted for beneficial use and DEC has accepted the County’s milestone certification for construction completion.

#### Progress This Quarter:

- Continued MCC testing.
- Continued demobilization.
- Continued general punch list work.



Expected Progress Next Quarter:

- Conveying system repairs.
- Door hardware installation.
- General punch list work items.

**4. Effluent Screening and Disinfection**

The County is continuing with the award process for the construction and construction management contracts. A milestone modification request was submitted by the County to extend the NTP date to 10/5/19 and was accepted by DEC.

Progress This Quarter:

Proposals for construction management services were received.

Expected Progress Next Quarter

The County will continue with the award process for the construction and construction management contracts. The construction NTP date is currently forecasted to occur by the modified milestone date of October 5, 2019 based on receiving Nassau County Legislative approval on August 5, 2019.

**5. Effluent Tide Pumping Facilities**

The project is proceeding and is projected to be complete before the milestone date.

Progress This Quarter:

- Installed Conduits for New Air Conditioning Unit on the New Electrical Annex Building Roof.
- Installed Electrical Grounding in the First Floor Slab of the New Electrical Annex Building.
- Installed Electrical Conduit Rack for ATS and Power Panel Equipment.
- Performed lightning Protection at the New Electrical Annex Building.
- Pulled Wires for Lighting Fixtures in Electrical Room.
- Removed Existing Electrical Equipment & Conduit/Wire within EPF Building.
- Demolished CMU Wall in EPF Electrical Room.
- Core Drilled and Installed Conduits for EPF PLC.
- Continued with Interior Painting in the New Electrical Annex Building.
- Core Drilled and Installed Pull Box and Conduits in the existing EPF.
- Performed Miscellaneous Demolition in EPF for Equipment Support Beam Installation.
- Performed Roofing Installation Work at the new Electrical Annex Building.
- Continued to install Electrical Conduit within the New Electrical Annex Building.
- Performed Expansion/Control Joints work in the New Electrical Annex Building.
- Performed installation of Firestopping in the new Electrical Annex Building.
- Installed VFDs, Transformers, & ATS in the new Electrical Annex Building.
- Installed Automatic Transfer Switch FA and 2 Fused Disconnect.
- Installed Under Structure Metal Soffit System Annex Building.
- Started the Installation of New Window on the North Side of the EPF

### Expected Progress Next Quarter

- Layout and Install Exterior Stairs and Railings at the new Electrical Annex Building.
- Install Linear Metal Ceilings in the New Electrical Annex Building.
- Perform Asbestos Removal and Demolition of the existing EPF Roof.
- Install Roof Drains at Existing EPF.
- Install Electrical Conduit Within Communication Room.
- Install Conduit Racks in Electrical Room.
- Install Lighting Fixtures in Communication Room.
- Install Backup Level Control Panel EFP BLVL CP.
- Install EFP PLC.
- Pull & Terminate Wire to Backup Level Control Panel EFP BLVL CP.
- Pull & Terminate Wire To 5kv Electrical Switchgear Equipment.
- Install Unit Heaters.
- Install Battery Bank and Cabinet Equipment in the Electrical Room.
- Install New Air Conditioner Units on the New Annex Building Roof.
- Continue Soffit System Installation in the New Electrical Annex Building.
- Install Structural Support for Control Panels.
- Install Effluent Water Pump No. 1.
- Install Effluent Water Pump No. 1 Discharge Valve & Piping.

### **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 has taken more time than anticipated due to complexity of the task and criticality of the system to maintain plant operations, issues related to the functionality of existing breakers, and a lack of contractor performance. The project is currently projecting beyond the milestone. The County's consultants continue to work with the contractor in an effort to improve upon the plan and reduce activity duration.

### Progress This Quarter:

- Completed sunshade installation on the North side of the building, MSS.
- Completed Fans and Unit Heater Startup, MSS.
- Performed Elevator Startup and Inspection, MSS.
- Continued Installation of Curtain Wall Systems, MSS.
- Started Installation of Flood Doors and Hardware, MSS.
- Completed Commissioning of EMCS, MSS.
- Continued HVAC Control Work and Testing.
- Completed Generator Load Bank Testing.
- Completed installation of Duct Banks for Site Lighting.
- Continuing Curbing and Sidewalk Restoration following Site Lighting.
- Continued Asphalt Paving and Patching.
- Started First Seven MOPOs.
- Continued Pulling Wire for Site Lighting.

- Continued Installation of Communications Conduits in the Tunnel and Operations Building

Expected Progress Next Quarter:

- Complete Installation of the Canopy and Punch List Items.
- Complete Installation of Curtain Wall Systems.
- Complete Installation of Flood Doors and Associated Hardware.
- Complete HVAC Controls and Building Automation.
- Complete Site Lighting wiring in NW & SW quadrants.
- Start Generator Migration MOPOs.
- Continue Site Restoration, Sidewalks, Curbing and throughout Plant.
- Generator Fire Suppression System Inspection.
- Complete Fire Alarm System Installation and Testing.
- Complete Installation of Phones and Network Equipment.

## **7. Secondary Flood Protection**

The County is continuing with the award process for the construction and construction management contracts. A milestone modification request was submitted by the County to extend the NTP date to 7/20/19 and was accepted by DEC.

Progress This Quarter:

The County is progressing the award and NTP. The modified NTP date of 7/20/19 was predicated on receiving Nassau County Legislature approval of the contracts on May 20, 2019. There have been delays due to the implementation of new compliance procedures which has delayed the approval of the contracts past the May 20<sup>th</sup> date.

Expected Progress Next Quarter:

The County will continue with the award process for the construction and construction management contracts. The forecast construction NTP date is dependent on receiving Nassau County Legislature approval on August 5, 2019.

## **8. Stormwater Pump Stations**

The work has been delayed by contractor performance issues and is currently projected to be substantially complete July 29, 2019, beyond the agreement milestone date of March 31, 2019. However, the pump stations achieved full storm water pumping functionality on March 28, 2019 and the DEC accepted the County's certification of completion April 19, 2019.

Progress This Quarter:

- Completed South MCC Lightning Protection.
- Installed South MCC Building Flood Lights.
- Placed Concrete Valve Supports in the South Pump Station Valve Chamber.
- Installed the Roof Coping for the South MCC Building.
- Installed Ladder Safety Rails at the South Valve Chamber.

- Completed Pavement for South Pump Station Restoration.
- Completed Pavement for Miscellaneous Improvement #5.
- Completed Miscellaneous Stormwater Improvement No. 7 Structures and Piping Installations.
- Completed Testing for the South MCC Building Grounding Loop.
- Replaced North MCC Sump Pump Breakers.
- Completed Operational Testing of The North Pump Station.
- Completed Operational Testing of the South Pump Station.
- Installed the Refrigerant Piping for the North and South Air Conditioner Systems.
- Pulled and Terminated Control Wiring for the North and South Air Conditioner Systems.
- Completed Start-up and Testing of Air Conditioner Systems in the North and South MCC Buildings.

Expected Progress Next Quarter:

- Install Signage and Equipment Tags.
- Test Flood Doors.
- Continue site restoration & paving.
- Complete Exterior Lighting
- Install Deck Spray Foam Insulation
- Demolish Existing and Install New Piping and Structures for Misc. Improvement No. 6

### **9. Upgrade to 3 Simultaneous Generator Operation**

The project is currently projected to be substantially complete by August 19, 2019, beyond the current milestone date. Issues have occurred with connected service air infrastructure that was not part of the project scope. The County is working with the contractor to expedite the completion of the project though a Force Majeure notification was submitted regarding this issue. Per discussions with DEC, the County will provide monthly updates on this project.

Progress This Quarter:

- Started and ran Natural Gas Compressor No. 2 for 2-weeks.
- Start-up ECL heat exchanger.
- Installed new Natural Gas Compressor No. 1.
- Start-up and Tested Natural Gas Compressor No. 1.
- Demolished Existing Natural Gas Compressor No. 5.
- Installed new Natural Gas Compressor No. 5.
- Completed installation of all Starting Air Compressors.
- Installed Service Air Compressor No. 1
- Troubleshoot Service Air Compressor Control Panel.

Expected Progress Next Quarter:

- Continue installation of Natural Gas Compressors.
- Continue installation of Service Air Compressors.

### **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**

The County has accepted all pump stations for beneficial use and milestone certification was submitted on February 28, 2019, ahead of the July 4, 2019 milestone date.

#### Progress This Quarter:

- Progressed Punch List Work (gas detection and lighting spare parts turned over, completed post construction photographs, completed Bayview Ave. PS FO Tank Leak Level field test).
- Granted substantial completion on May 13, 2019.

#### Expected Progress Next Quarter:

- Final punch list work and contract close out.

### **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 is proceeding with the award process. The milestone date for NTP to 4/15/2019 was not met. A milestone modification request was submitted by the County and accepted by DEC. The County anticipates an NTP prior to the modified date of November 23, 2019.

### **16. Level 1 BNR**

The project is currently projected to finish two weeks behind the milestone date. As noted in the Q1 209 report, Aeration Tanks No. 1, 2 and 3 all have been found to have frozen drain gates and water is infiltrating into AT No.3 through the bottom slab expansion joints. A Force Majeure notification was issued to DEC regarding this issue on May 3, 2019. The lessons learned in the work in AT No. 3 will be applied if necessary in the final two tanks in order to maintain the current schedule.

#### Progress This Quarter:

- Completed Installation of the Mixer, Baffle Walls, and Diffusers in Aeration Tank No. 3.

- Completed Installation of 12” SWAS Pipe in Pass No. 3A.
- Completed Testing and Placed Aeration Tank No. 3 In Service.
- Completed Replacement of the Sluice Gate in Underdrain Manhole for Aeration Tank No. 2.
- Started Replacement of the sluice gate in Underdrain Manhole for Aeration Tank No. 1.
- Started the Structural Repair Work in RAS Box No. 9 and No.10.
- Continue Installation of the MCC and Power Panels in Aeration Building No. 2.
- Continue Installation of the Instrumentation in all Five Aeration Tanks.

Expected Progress Next Quarter:

- Continue Installation of the MCC and Sub-Panels in Aeration Building No. 2.
- Continue Installation of Instrumentation in All Five Aeration Tanks.
- Continue the structural repair work in RAS Box No. 9 and No. 10.
- Remove Aeration Tank No. 2 from Service and Clean.
- Remove the existing diffuser equipment from Aeration Tank No. 2.
- Perform Structural repair work in Aeration Tank No. 2.

**17. Sidestream Deammonification**

The County is continuing with the award process for the construction and construction management contracts. A milestone modification request was submitted by the County to extend the NTP date to 7/20/19 and was accepted by DEC.

Progress This Quarter:

The County is progressing the award and NTP. The modified NTP date of 7/20/19 was predicated on receiving Nassau County Legislature approval of the contracts on May 20, 2019. There have been delays due to the implementation of new compliance procedures which has delayed the approval of the contracts past the May 20<sup>th</sup> date.

Expected Progress Next Quarter:

The County will continue with the award process for the construction and construction management contracts. The forecast construction NTP date is dependent on receiving Nassau County Legislature approval on August 5, 2019.

## IV.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 approved by the County Legislative Committees and the full legislature. The City of Long Beach Council will approve the agreement in the next Quarter.

V.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. Per the discussion at the 2019 Q1 meeting, separate milestones will be established for the two projects due to Level 1 BNR finishing prior to Sidestream Deammonification.



## VI.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 preliminary designer has started work and submitted the Draft Design Criteria Package on June 7, 2019. This is the second milestone of their contract. It was reviewed and comments returned to the designer.

Expected Progress Next Quarter:

Design workshops will be held and the designer will proceed towards the production of the Final Design Criteria Package to be submitted in October, 2019.

Project Milestones:

NYSDEC is considering adjusting the milestones to better align with the current project delivery methodology which is utilizing Design-Build project delivery.

VII.0

## Environmental Benefit Projects

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A designer has been selected and the County is currently in the process of finalizing a design agreement under which the Kayak Dock design task will be assigned. This process includes encumbrance of all necessary funds outlined in the EBP Plan.

## VIII.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 Completion	1/5/2018	7/5/2018	9/13/2018
East Avenue Ejector Station - Design Completion	3/2/2018	7/5/2018	9/13/2018
Cedar Dr, Roosevelt et al PS - Construction Completion	1/12/2018	7/5/2018	11/27/2018
Wantagh, Newbridge et al PS – Construction Completion	2/12/2018	7/5/2018	11/27/2018
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 Completion	10/12/2018	10/24/2018	1/4/2019
Inwood, Doughty et al PS – Construction Completion	2/19/2019	2/28/2019	pending
Stormwater Pump Stations – Construction Completion	3/28/2019	4/3/2019	4/19/2019

IX.0

## Community Relations

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A meeting was held April 3, 2019 and meeting minutes are attached herein.

X.0

## Attachments

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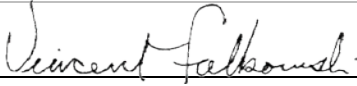
1. Program Master Schedule
2. Community Meeting Minutes

## XI.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
		7/29/2019
Signature		Date Signed

Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	Year																																															
						2013				2014				2015				2016				2017				2018				2019				2020				2021				2022				2023				2024			
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q								
<b>Existing Capital Projects</b>																																																					
<b>S3B119-05G - Generator Controls</b>																																																					
<b>Design</b>																																																					
Design - Generator Controls	74	0	21-Oct-13 A	22-Apr-14 A	100	[Gantt bar: 21-Oct-13 A to 22-Apr-14 A]																																															
<b>Procurement</b>																																																					
Procurement - Generator Controls	121	0	28-Oct-13 A	25-Feb-14 A	100	[Gantt bar: 28-Oct-13 A to 25-Feb-14 A]																																															
<b>Construction</b>																																																					
Temp Generators Off-line / Plant Power on House Generabis	0	0		18-Nov-14 A	100	[Gantt bar: 18-Nov-14 A to 18-Nov-14 A]																																															
Construction - Generator Controls	533	0	15-Nov-13 A	24-Jun-16 A	100	[Gantt bar: 15-Nov-13 A to 24-Jun-16 A]																																															
<b>S3B120-01G - Influent Screening Facility Improvements</b>																																																					
<b>CM Contract</b>																																																					
RFP / Advertise CM Services - Influent Screening	30	0	20-Apr-13 A	24-May-13 A	100	[Gantt bar: 20-Apr-13 A to 24-May-13 A]																																															
Award / NTP CM Services - Influent Screening	40	0	25-May-13 A	06-Jan-14 A	100	[Gantt bar: 25-May-13 A to 06-Jan-14 A]																																															
<b>Construction Contract</b>																																																					
Bid / Advertise - Influent Screening	40	0	14-Oct-13 A	26-Nov-13 A	100	[Gantt bar: 14-Oct-13 A to 26-Nov-13 A]																																															
Award / NTP - Influent Screening	90	0	27-Nov-13 A	27-May-14 A	100	[Gantt bar: 27-Nov-13 A to 27-May-14 A]																																															
Construction - Influent Screening	913	0	27-May-14 A	09-Jun-17 A	100	[Gantt bar: 27-May-14 A to 09-Jun-17 A]																																															
<b>S3B120-02G - Grit Removal Facility Improvements</b>																																																					
<b>CM Contract</b>																																																					
RFP / Advertise CM Services - Grit Removal	30	0	07-Oct-13 A	25-Oct-13 A	100	[Gantt bar: 07-Oct-13 A to 25-Oct-13 A]																																															
Award / NTP CM Services - Grit Removal	40	0	26-Oct-13 A	26-May-14 A	100	[Gantt bar: 26-Oct-13 A to 26-May-14 A]																																															
<b>Construction Contract</b>																																																					
75% to 100% Design / Bid Documents - Grit Removal	236	0	06-May-13 A	12-Feb-14 A	100	[Gantt bar: 06-May-13 A to 12-Feb-14 A]																																															
County Prepare Bid for Advertisement - Grit Removal	7	0	13-Feb-14 A	23-Feb-14 A	100	[Gantt bar: 13-Feb-14 A to 23-Feb-14 A]																																															
Bid / Advertise - Grit Removal	56	0	24-Feb-14 A	21-Mar-14 A	100	[Gantt bar: 24-Feb-14 A to 21-Mar-14 A]																																															
Bid Opening - Grit Removal	1	0	25-Mar-14 A	25-Mar-14 A	100	[Gantt bar: 25-Mar-14 A to 25-Mar-14 A]																																															
Award / NTP - Grit Removal	63	0	26-Mar-14 A	20-Apr-15 A	100	[Gantt bar: 26-Mar-14 A to 20-Apr-15 A]																																															
Construction - Grit Removal	821	0	20-Apr-15 A	18-Jul-17 A	100	[Gantt bar: 20-Apr-15 A to 18-Jul-17 A]																																															
<b>S35100-01G - Cleaning &amp; Repair of Digesters &amp; Storage Tanks</b>																																																					
<b>Construction</b>																																																					
Construction - Digester Cleaning	720	0	20-May-13 A	16-Apr-15 A	100	[Gantt bar: 20-May-13 A to 16-Apr-15 A]																																															
<b>S35114-03G - Sludge Thickening Facility Improvements</b>																																																					
<b>CM Contract</b>																																																					
RFP / Advertise CM Services - Sludge Thickening	30	0	21-Aug-13 A	09-Sep-13 A	100	[Gantt bar: 21-Aug-13 A to 09-Sep-13 A]																																															
Award / NTP CM Services - Sludge Thickening	30	0	10-Sep-13 A	25-Mar-14 A	100	[Gantt bar: 10-Sep-13 A to 25-Mar-14 A]																																															
<b>Construction Contract</b>																																																					
Award / NTP - Sludge Thickening	64	0	21-Aug-13 A	24-Oct-13 A	100	[Gantt bar: 21-Aug-13 A to 24-Oct-13 A]																																															
Construction - Sludge Thickening	730	0	28-Oct-13 A	30-Aug-16 A	100	[Gantt bar: 28-Oct-13 A to 30-Aug-16 A]																																															
<b>S35116-01G - Odor Control at Bay Park &amp; Cedar Creek</b>																																																					
<b>CM Contract</b>																																																					
RFP / Advertise CM Services - Odor Control BP & CC WPCPs	20	0	21-Aug-13 A	09-Sep-13 A	100	[Gantt bar: 21-Aug-13 A to 09-Sep-13 A]																																															
Award / NTP CM Services - Odor Control BP & CC WPCPs	30	0	10-Sep-13 A	10-Mar-14 A	100	[Gantt bar: 10-Sep-13 A to 10-Mar-14 A]																																															
<b>Construction Contract</b>																																																					
Award / NTP - Odor Control BP & CC WPCPs	64	0	21-Aug-13 A	23-Oct-13 A	100	[Gantt bar: 21-Aug-13 A to 23-Oct-13 A]																																															
Construction - Odor Control BP & CC WPCPs	730	0	28-Oct-13 A	07-Nov-15 A	100	[Gantt bar: 28-Oct-13 A to 07-Nov-15 A]																																															
<b>Hurricane Sandy Projects</b>																																																					
<b>FEMA Approval Process</b>																																																					
FEMA 404 Grants	60	0	12-Aug-13 A	31-Oct-13 A	100	[Gantt bar: 12-Aug-13 A to 31-Oct-13 A]																																															
FEMA Finalize Damage Scope and Cost	45	0	12-Aug-13 A	19-Dec-13 A	100	[Gantt bar: 12-Aug-13 A to 19-Dec-13 A]																																															
Submit 406 HMP	45	0	12-Aug-13 A	19-Dec-13 A	100	[Gantt bar: 12-Aug-13 A to 19-Dec-13 A]																																															
FEMA 406 HMP Negotiation	90	0	06-Jan-14 A	15-Jan-14 A	100	[Gantt bar: 06-Jan-14 A to 15-Jan-14 A]																																															

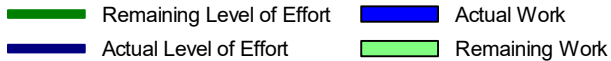
█ Remaining Level of Effort     █ Actual Work  
█ Actual Level of Effort     █ Remaining Work



Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013												2014												2015												2016												2017												2018												2019												2020												2021												2022												2023												2024											
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q																																																																																
FEMA Scope and Cost Negotiation						[Gantt bar: 2013 Q4 - 2014 Q1]																																																																																																																																															
<b>S35121-01G/E - Final Settling Tank Rehabilitation</b>						[Gantt bar: 2013 Q4 - 2014 Q4]																																																																																																																																															
<b>Construction Contract</b>						[Gantt bar: 2013 Q4 - 2014 Q4]																																																																																																																																															
Award / NTP - Final Tank Rehabilitation	64	0	21-Aug-13 A	23-Oct-13 A	100	[Gantt bar: 2013 Q4 - 2014 Q1]																																																																																																																																															
Construction - Final Tank Rehabilitation	730	0	28-Oct-13 A	13-May-16 A	100	[Gantt bar: 2013 Q4 - 2016 Q2]																																																																																																																																															
<b>CM Contract</b>						[Gantt bar: 2013 Q4 - 2014 Q4]																																																																																																																																															
RFP / Advertise CM Services - Final Tank Rehabilitation	30	0	21-Aug-13 A	09-Sep-13 A	100	[Gantt bar: 2013 Q4 - 2014 Q1]																																																																																																																																															
Award / NTP CM Services - Final Tank Rehabilitation	30	0	10-Sep-13 A	10-Feb-14 A	100	[Gantt bar: 2013 Q4 - 2014 Q2]																																																																																																																																															
<b>S35121-03G - Raw Sewage Pumping Facility</b>						[Gantt bar: 2014 Q1 - 2019 Q4]																																																																																																																																															
<b>CM Contract</b>						[Gantt bar: 2014 Q1 - 2019 Q4]																																																																																																																																															
RFP / Advertise CM Services - Raw Sewage Pumping Facility	29	0	01-Feb-19 A	01-Mar-19 A	100	[Gantt bar: 2019 Q1 - 2019 Q2]																																																																																																																																															
Award / NTP CM Services - Raw Sewage Pumping Facility	180	146	02-Mar-19 A	23-Nov-19	19	[Gantt bar: 2019 Q2 - 2020 Q3]																																																																																																																																															
<b>Design Process</b>						[Gantt bar: 2014 Q1 - 2016 Q2]																																																																																																																																															
Finalize Technical Memorandum - Influent Screens & RPS	45	0	21-Apr-14 A	30-Jun-14 A	100	[Gantt bar: 2014 Q1 - 2014 Q2]																																																																																																																																															
Preliminary Design - Raw Sewage Pumping Facility	88	0	01-Jul-14 A	23-Feb-15 A	100	[Gantt bar: 2014 Q2 - 2014 Q3]																																																																																																																																															
RFP / Advertise Final Design - Raw Sewage Pumping Facility	29	0	27-Feb-15 A	27-Mar-15 A	100	[Gantt bar: 2015 Q1 - 2015 Q1]																																																																																																																																															
Award / NTP Final Design - Raw Sewage Pumping Facility	90	0	30-Mar-15 A	01-Mar-16 A	100	[Gantt bar: 2015 Q1 - 2015 Q2]																																																																																																																																															
Final Design - Raw Sewage Pumping Facility	210	0	01-Mar-16 A	26-Sep-16 A	100	[Gantt bar: 2015 Q2 - 2016 Q3]																																																																																																																																															
<b>Bid / Construction</b>						[Gantt bar: 2019 Q1 - 2019 Q4]																																																																																																																																															
County Prepare Bid for Advertisement - Raw Sewage Pumping Facility	1	0	01-Feb-19 A	01-Feb-19 A	100	[Gantt bar: 2019 Q1 - 2019 Q1]																																																																																																																																															
Bid / Advertise - Raw Sewage Pumping Facility	29	0	01-Feb-19 A	08-Mar-19 A	100	[Gantt bar: 2019 Q1 - 2019 Q2]																																																																																																																																															
Bid Opening - Raw Sewage Pumping Facility	1	0	12-Mar-19 A	12-Mar-19 A	100	[Gantt bar: 2019 Q2 - 2019 Q2]																																																																																																																																															
Award / NTP - Raw Sewage Pumping Facility	180	146	13-Mar-19 A	23-Nov-19	19	[Gantt bar: 2019 Q2 - 2020 Q3]																																																																																																																																															
Construction - Raw Sewage Pumping Facility	910	910	23-Nov-19	20-May-22*	0	[Gantt bar: 2020 Q3 - 2022 Q2]																																																																																																																																															
<b>S35121-09G - Sludge Dewatering</b>						[Gantt bar: 2014 Q1 - 2019 Q4]																																																																																																																																															
<b>CM Contract</b>						[Gantt bar: 2014 Q1 - 2019 Q4]																																																																																																																																															
RFP / Advertise CM Services - Dewatering Demo & Improvement	22	0	04-Apr-14 A	25-Apr-14 A	100	[Gantt bar: 2014 Q1 - 2014 Q1]																																																																																																																																															
Award / NTP CM Services - Dewatering Demo & Improvement	90	0	29-Apr-14 A	22-Sep-14 A	100	[Gantt bar: 2014 Q1 - 2014 Q2]																																																																																																																																															
<b>Design Process</b>						[Gantt bar: 2014 Q1 - 2015 Q2]																																																																																																																																															
Finalize Technical Memorandum - Dewatering	45	0	12-Aug-13 A	22-Nov-13 A	100	[Gantt bar: 2013 Q4 - 2014 Q1]																																																																																																																																															
Preliminary Design - Dewatering	85	0	26-Sep-13 A	31-Dec-13 A	100	[Gantt bar: 2013 Q4 - 2014 Q1]																																																																																																																																															
RFP / Advertise Final Design - Dewatering	16	0	10-Jan-14 A	07-Feb-14 A	100	[Gantt bar: 2014 Q1 - 2014 Q1]																																																																																																																																															
Award / NTP Final Design - Dewatering	80	0	08-Feb-14 A	07-Jul-14 A	100	[Gantt bar: 2014 Q1 - 2014 Q2]																																																																																																																																															
Final Design - Dewatering	200	0	07-Jul-14 A	03-Apr-15 A	100	[Gantt bar: 2014 Q2 - 2015 Q1]																																																																																																																																															
<b>Centrifuge Pilot Testing</b>						[Gantt bar: 2014 Q2 - 2015 Q2]																																																																																																																																															
Alfa Laval Centrifuge Pilot	5	0	02-Jun-14 A	11-Jun-14 A	100	[Gantt bar: 2014 Q2 - 2014 Q2]																																																																																																																																															
GEA Westfalia Centrifuge Pilot	5	0	23-Jun-14 A	27-Jun-14 A	100	[Gantt bar: 2014 Q2 - 2014 Q2]																																																																																																																																															
Andritz Centrifuge Pilot	5	0	07-Jul-14 A	11-Jul-14 A	100	[Gantt bar: 2014 Q2 - 2014 Q2]																																																																																																																																															
Flottweg Centrifuge Pilot	5	0	14-Jul-14 A	18-Jul-14 A	100	[Gantt bar: 2014 Q2 - 2014 Q2]																																																																																																																																															
Centrisys Centrifuge Pilot	5	0	21-Jul-14 A	25-Jul-14 A	100	[Gantt bar: 2014 Q2 - 2014 Q2]																																																																																																																																															
<b>Bid / Construction</b>						[Gantt bar: 2015 Q2 - 2016 Q2]																																																																																																																																															
County Prepare Bid for Advertisement - Dewatering	7	0	03-Apr-15 A	09-Apr-15 A	100	[Gantt bar: 2015 Q2 - 2015 Q2]																																																																																																																																															
Bid / Advertise - Dewatering	29	0	10-Apr-15 A	15-May-15 A	100	[Gantt bar: 2015 Q2 - 2015 Q3]																																																																																																																																															
Bid Opening - Dewatering	1	0	19-May-15 A	19-May-15 A	100	[Gantt bar: 2015 Q3 - 2015 Q3]																																																																																																																																															
Award / NTP - Dewatering	90	0	20-May-15 A	07-Dec-15 A	100	[Gantt bar: 2015 Q3 - 2016 Q1]																																																																																																																																															
Construction - Dewatering	913	31	07-Dec-15 A	31-Jul-19*	97	[Gantt bar: 2016 Q1 - 2019 Q4]																																																																																																																																															
<b>S35121-09R - Sludge Dewatering Demolition</b>						[Gantt bar: 2014 Q1 - 2015 Q2]																																																																																																																																															
<b>Design Process</b>						[Gantt bar: 2014 Q1 - 2015 Q2]																																																																																																																																															
100% Design - Dewatering Demolition	89	0	02-Jan-14 A	31-Mar-14 A	100	[Gantt bar: 2014 Q1 - 2014 Q1]																																																																																																																																															
<b>Bid / Construction</b>						[Gantt bar: 2014 Q1 - 2015 Q2]																																																																																																																																															
County Prepare Bid for Advertisement - Dewatering Demolition	7	0	01-Apr-14 A	03-Apr-14 A	100	[Gantt bar: 2014 Q1 - 2014 Q1]																																																																																																																																															
Bid / Advertise - Dewatering Demolition	29	0	04-Apr-14 A	09-May-14 A	100	[Gantt bar: 2014 Q1 - 2014 Q2]																																																																																																																																															
Bid Opening - Dewatering Demolition	1	0	13-May-14 A	13-May-14 A	100	[Gantt bar: 2014 Q2 - 2014 Q2]																																																																																																																																															
Award / NTP - Dewatering Demolition	90	0	14-May-14 A	22-Sep-14 A	100	[Gantt bar: 2014 Q2 - 2014 Q3]																																																																																																																																															

■ 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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Construction - Dewatering Demolition	180	0	22-Sep-14 A	20-Mar-15 A	100												
<b>S35121-11G - Effluent Screening &amp; Disinfection</b>																	
<b>CM Contract</b>																	
RFP / Advertise CM Services - Effluent Screening & Disinfection	29	0	01-Feb-19 A	01-Mar-19 A	100												
Award / NTP CM Services - Effluent Screening & Disinfection	180	97	02-Mar-19 A	05-Oct-19	46												
<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 / Advertise 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 / 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												
Award / NTP - Effluent Screening & Disinfection	180	97	15-Aug-18 A	05-Oct-19	46												
Construction - Effluent Screening & Disinfection	785	785	05-Oct-19	27-Nov-21*	0												
<b>S35121-12G - Effluent Pumping Facility Improvements</b>																	
<b>CM Contract</b>																	
RFP / Advertise 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 / 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												
<b>Bid / Construction</b>																	
County Prepare Bid for Advertisement - Effluent Tide PB	7	0	08-Jul-15 A	14-Jul-15 A	100												
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												
Award / NTP - Effluent Tide PB	90	0	16-Sep-15 A	24-Aug-17 A	100												
Construction - Effluent Pumping Facility Improvements	820	309	24-Aug-17 A	04-May-20*	62												
<b>S35121-13E - Phase E1 Electrical Distribution Systems Improvements</b>																	
<b>CM Contract</b>																	
RFP / Advertise 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 / Advertise - 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 / Advertise - 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												



Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
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>																	
<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	207	05-Oct-15 A	23-Jan-20*	81												
<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>CM Contract</b>																	
RFP / Advertise CM Services - Phase E4 Electrical Utility Connections	29	29	12-Mar-20	09-Apr-20	0												
Award / NTP CM Services - Phase E4 Electrical Utility Connections	180	180	10-Apr-20	06-Oct-20	0												
<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	124	09-Nov-18 A	01-Nov-19	0												
Final Design - Phase E4 Electrical Utility Connections	180	180	02-Nov-19	29-Apr-20	0												
PSE&G Coordination	5	1072	12-Aug-13 A	06-Jun-22	0												
<b>Bid / Construction</b>																	
County Prepare Bid for Advertisement - Phase E4 Electrical Utility Connections	7	7	30-Apr-20	06-May-20	0												
Bid / Advertise - Phase E4 Electrical Utility Connections	29	29	08-May-20	05-Jun-20	0												
Bid Opening - Phase E4 Electrical Utility Connections	1	1	09-Jun-20	09-Jun-20	0												
Award / NTP - Phase E4 Electrical Utility Connections	180	180	10-Jun-20	06-Dec-20	0												
Construction - Phase E4 Electrical Utility Connections	548	548	06-Dec-20	06-Jun-22*	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	57	05-Jul-17 A	26-Aug-19*	84												
<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	20	26-Aug-17 A	20-Jul-19	78												
<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	61	06-Dec-17 A	30-Aug-19	32												

■ 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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Construction - Secondary Flood Protection	730	730	30-Aug-19	28-Aug-21*	0												
<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	10-Mar-20	07-Apr-20	0												
Award / NTP CM Services - Heating Hot Water Piping Permanent System	190	190	08-Apr-20	14-Oct-20	0												
<b>Design Process</b>																	
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	73	16-Nov-18 A	11-Sep-19	54												
Final Design - Heating Hot Water Piping Permanent System	210	210	11-Sep-19	07-Apr-20	0												
<b>Bid / Construction</b>																	
County Prepare Bid for Advertisement - Hot/Chilled Water System Upgrades	7	7	08-Apr-20	14-Apr-20	0												
Bid / Advertise - Heating Hot Water Piping Permanent System	29	29	17-Apr-20	15-May-20	0												
Bid Opening - Heating Hot Water Piping Permanent System	1	1	19-May-20	19-May-20	0												
Award / NTP - Heating Hot Water Piping Permanent System	180	180	20-May-20	15-Nov-20	0												
Construction - Heating Hot Water Piping Permanent System	730	730	15-Nov-20	14-Nov-22*	0												
<b>S35121-16TR - Vehicle Fueling &amp; Tanks Reconstruction</b>																	
<b>Design Process</b>																	
Design - Vehicle 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 / Advertise - Vehicle 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												
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												
Construction - Vehicle 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 / Advertise - 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 / Advertise 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 / 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												
Eastem Park Open	0	0		07-Oct-15 A	100												
Construction - Perimeter Flood Protection	740	0	27-May-14 A	09-Jun-17 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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>S35121-18G - Flood Protection Phase 1 Stormwater Pumping Stations</b>																	
<b>CM Contract</b>																	
RFP / Advertise 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>																	
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												
<b>Bid / Construction</b>																	
County Prepare Bid for Advertisement - Flood Protection Phase 1 Stormwater PS	7	0	28-Aug-15 A	03-Sep-15 A	100												
Bid / Advertise - Flood Protection Phase 1 Stormwater PS	29	0	04-Sep-15 A	02-Oct-15 A	100												
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												
Construction - Flood Protection Phase 1 Stormwater PS	760	29	31-May-16 A	29-Jul-19*	96												
<b>S35121-18S - Flood Protection Phase 2 Stormwater Green Infrastructure</b>																	
<b>CM Contract</b>																	
<b>Design Process</b>																	
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												
<b>Bid / Construction</b>																	
<b>S35123-L37 - Miscellaneous Storm Repairs, Mitigation &amp; Site Restoration</b>																	
<b>CM Contract</b>																	
RFP / Advertise CM Services - Misc Storm Repairs, Mitigation & Restoration	29	29	03-Dec-20	31-Dec-20	0												
Award / NTP CM Services - Misc Storm Repairs, Mitigation & Restoration	180	180	01-Jan-21	29-Jun-21	0												
<b>Design Process</b>																	
Conceptual Design - Misc Storm Repairs, Mitigation & Site Restoration	90	90	05-Jul-19*	02-Oct-19	0												
RFP / Advertise - Final Design - Misc Storm Repairs, Mitigation & Site Restoration	29	29	03-Oct-19	31-Oct-19	0												
Award / NTP Final Design - Misc Storm Repairs, Mitigation & Site Restoration	180	180	01-Nov-19	28-Apr-20	0												
Final Design - Misc Storm Repairs, Mitigation & Site Restoration	270	270	28-Apr-20	22-Jan-21	0												
<b>Bid / Construction</b>																	
County Prepare Bid for Advertisement - Misc Storm Repairs, Mitigation & Site Restoration	7	7	22-Jan-21	28-Jan-21	0												
Bid / Advertise - Misc Storm Repairs, Mitigation & Site Restoration	29	29	29-Jan-21	26-Feb-21	0												
Bid Opening - Misc Storm Repairs, Mitigation & Site Restoration	1	1	02-Mar-21	02-Mar-21	0												
Award / NTP - Misc Storm Repairs, Mitigation & Site Restoration	180	180	03-Mar-21	29-Aug-21	0												
Construction - Misc Storm Repairs, Mitigation & Site Restoration	731	731	29-Aug-21	29-Aug-23*	0												
<b>S3B119-06G - Bay Park STP Heating Hot Water Piping Temporary System</b>																	
<b>Design Process</b>																	
Final Design - Heating Hot Water Piping Temporary System	90	0	01-May-15 A	17-Jun-15 A	100												
<b>Bid / Construction</b>																	
County Prepare Bid for Advertisement - Heating Hot Water Piping Temporary System	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 Opening - Heating Hot Water Piping Temporary System	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												
<b>S35121-06G - Aeration Blower Facility</b>																	
<b>CM Contract</b>																	
RFP / Advertise CM Services - Aeration Blower Facility	29	29	31-Dec-20	28-Jan-21	0												
Award / NTP CM Services - Aeration Blower Facility	180	180	29-Jan-21	27-Jul-21	0												
<b>Design Process</b>																	
Preliminary Design - Aeration Blower Facility	180	0	01-Nov-16 A	15-Dec-16 A	100												
Resolve Power Availability Issue for Aeration Blower Building	147	147	01-Jul-18 A	24-Nov-19	0												
RFP / Advertise - Final Design - Aeration Blower Facility	29	29	25-Nov-19	23-Dec-19	0												
Award / NTP Final Design - Aeration Blower Facility	180	180	24-Dec-19	20-Jun-20	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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
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												
<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	146	06-Apr-19 A	23-Nov-19	19												
<b>Design Process</b>																	
Prepare Flow Study & Technical Memorandum - Pump Station 8	27	0	18-Dec-15 A	14-Jul-16 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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
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	146	09-Apr-19 A	23-Nov-19	19												
Construction - East Avenue Pump Station	540	540	23-Nov-19	15-May-21*	0												
<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 Station	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	43	25-Apr-16 A	12-Aug-19*	91												
<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	61	03-Nov-18 A	30-Aug-19	66												

■ 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				
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Bid Opening - Level 1 BNR Improvements	1	0	15-Nov-16 A	15-Nov-16 A	100																
Award / NTP - Level 1 BNR Improvements	90	0	16-Nov-16 A	05-Jul-17 A	100																
Construction - Level 1 BNR Improvements	913	298	05-Jul-17 A	23-Apr-20*	67																
<b>Long Beach WPCP Diversion</b>																					
<b>S35109-01G - Long Beach Pump Station</b>																					
<b>Design Process</b>																					
Pump Station Design - Long Beach Pump Station (PMJV)	186	184	06-May-19 A	31-Dec-19	1																
<b>Bid / Construction</b>																					
County Prepare Bid for Advertisement - Long Beach Pump Station	7	7	03-Jan-20	09-Jan-20	0																
Bid / Advertise - Long Beach Pump Station	29	29	10-Jan-20	07-Feb-20	0																
Bid Opening - Long Beach Pump Station	1	1	11-Feb-20	11-Feb-20	0																
Award / NTP - Long Beach Pump Station	145	145	12-Feb-20	05-Jul-20	0																
Construction - Long Beach Pump Station	909	909	06-Jul-20	31-Dec-22*	0																
<b>S35109-01S - Long Beach HDD Force Main</b>																					
<b>Design Process</b>																					
HDD Design - Long Beach HDD Force Main (PMJV)	186	234	06-May-19 A	19-Feb-20	0																
<b>Bid / Construction</b>																					
County Prepare Bid for Advertisement - Long Beach HDD Force Main	7	7	20-Feb-20	26-Feb-20	0																
Bid / Advertise - Long Beach HDD Force Main	29	29	28-Feb-20	27-Mar-20	0																
Bid Opening - Long Beach HDD Force Main	1	1	31-Mar-20	31-Mar-20	0																
Award / NTP - Long Beach HDD Force Main	174	174	01-Apr-20	21-Sep-20	0																
Construction - Long Beach HDD Force Main	831	831	22-Sep-20	31-Dec-22*	0																
<b>S35109-01M - Long Beach Diversion CM Contract</b>																					
RFP / Advertise CM Services - Long Beach Diversion	29	29	13-Dec-19	10-Jan-20	0																
Award / NTP CM Services - Long Beach Diversion	96	96	11-Jan-20	15-Apr-20	0																
<b>S35109-02G - Austin Boulevard Force Main</b>																					
<b>CM Contract</b>																					
<b>Design Process</b>																					
Prepare RFP - Austin Boulevard Force Main Design	7	0	05-Feb-16 A	10-Feb-16 A	100																
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																
<b>Bid / Construction</b>																					
County Prepare Bid for Advertisement - Austin Boulevard Force Main	7	0	08-Sep-18 A	13-Sep-18 A	100																
Bid / Advertise - Austin Boulevard Force Main	29	0	14-Sep-18 A	09-Nov-18 A	100																
Bid Opening - Austin Boulevard Force Main	1	0	13-Nov-18 A	13-Nov-18 A	100																
<b>Milestones</b>																					
Program Management Award	0	0	12-Aug-13 A		100																
Program Management Complete	0	0		24-Sep-24	0																

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

Action Items from April 3, 2019 Meeting

Item	Description and Responsibility	Status
<b>Planting Plan</b>	Rich Arnedos will be checking with parks and County about plantings in areas the community brought up outside the plantings plan presented.	
<b>PSEG-LI</b>	County will have an update to share at next meeting.	
<b>Plant Name Change</b>	County and JV will follow up with communication channels about using the name “South Shore Water Reclamation Facility”.	During a meeting, 5/7/19, Tom King from DEC stated that based on his conversations internally within DEC, changing the name of the plant can be done in the next SPDES update and submission. There is a line for requesting plant name changed.
<b>Generator Odor Complaints</b>	JV and Suez will address the generator odor (gasoline and smoke) complaints before the next community meeting.	
<b>Odors</b>	JV and Suez will coordinate on communication of odor complaints.	
<b>Diversion Plan</b>	JV informed community about separate meetings regarding the Bay Park to Cedar Creek Diversion project.	
<b>Drainage</b>	County will have update ready of the plans to repave the road.	