

January 28, 2019

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

Agreement DEC Index No: CO 1-20170626-244

Bay Park Sewage Treatment Plant
2018 Q4 Quarterly Report

Dear Mr. Hampston:

We are submitting herewith our Quarterly Report for the period of October 1, 2018 through December 31, 2018.

Very truly yours,



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

c:	NCDPW <i>Kenneth Arnold</i> <i>Edward Visone</i> <i>Jane Houdek</i>	Hazen and Sawyer <i>Mark Hanson</i> <i>Paul Saurer</i> <i>Eric Mills</i> <i>Tom Zakrzewski</i>	ARCADIS <i>Peter Glus</i> <i>Greg Bazydola</i> <i>Maryanne Dioquino</i>	DEC <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 Q4 2018 Report



TABLE OF CONTENTS

I.0 Executive Summary	3
I.0 Modification Request and Force Majeure Status	4
II.0 Design Milestone Status	5
III.0 Construction Milestone Status	6
IV.0 Inter Municipal Agreement	15
V.0 Nitrogen Interim Limit Schedule of Compliance	16
VI.0 Diversion Project	17
VII.0 Environmental Benefit Projects	18
VIII.0 Certification of Completed Activities	19
IX.0 Community Relations	20
X.0 Attachments	21
XI.0 Glossary	22

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 October 1, 2018 through December 31, 2018.

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

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 October 1, 2018 through December 31, 2018 (“Reporting Quarter”).

Key personnel changes to report this quarter are the retirements of DPW Project Managers Damon Urso and Thomas Immerso. They have been replaced by DPW Project Manager Edward Visone with support from the Joint Venture.

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
Raw Sewage Pumping Facility NTP	12/3/2018	8/24/2018	5/15/2019	9/12/2018	5/15/2019
Raw Sewage Pumping Facility CC	12/1/2020	8/24/2018	2/27/2022	9/12/2018	2/27/2022
Effluent Screening Facility NTP	8/21/2018	8/24/2018	2/21/2019	9/12/2018	2/21/2019
Effluent Screening Facility CC	7/29/2020	8/24/2018	10/14/2021	9/12/2018	10/14/2021
Secondary Flood Protection NTP	6/5/2018	8/24/2018	2/15/2019	9/12/2018	2/15/2019
Secondary Flood Protection CC	7/26/2020	8/24/2018	8/15/2021	9/12/2018	8/15/2021
Stormwater Pump Stations CC	3/31/2018	8/24/2018	3/31/2019	9/12/2018	3/31/2019
3 Generator Operation	11/30/2018	8/24/2018	3/31/2019	9/12/2018	3/31/2019
3 Generator Operation	3/31/2019	1/10/2019*	5/19/2019	pending	pending
Hot Water Piping System Design, NTP, CC	Multiple	8/24/2018	Removal from Agreement	9/12/2018	Project Removed
East Avenue Ejector Station NTP	8/19/2018	8/24/2018	4/15/2019	9/12/2018	4/15/2019
East Avenue Ejector Station CC	12/28/2019	8/24/2018	2/13/2021	9/12/2018	2/13/2021
Sidestream Deammonification NTP	6/12/2018	8/24/2018	3/25/2019	9/12/2018	3/25/2019
Sidestream Deammonification CC	12/28/2019	8/24/2018	9/25/2021	9/12/2018	7/8/2021
Effluent Tide Pumping Facilities CC	5/28/2020	10/19/2018*	1/15/2021	12/20/2018	1/15/2021

**Force Majeure*

II.0

Design Milestone Status

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

Table 2 – Design Completion Milestones

Milestone	Agreement Date	Actual/Forecast
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 met 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

Milestone	Agreement Date	Actual/Forecast
Raw Sewage Pumping Facility	5/15/2019	9/1/2019
Effluent Screening and Disinfection	2/27/2019	7/7/2019
Secondary Flood Protection	2/21/2019	2/15/2019
East Avenue Ejector Station	4/15/2019	9/2/2019
Sidestream Deammonification	3/25/2019	3/25/2019

Table 4 – Construction Completion Milestones

Milestone	Agreement Date	Actual/Forecast	% Complete
1 Barnes Avenue – Baldwin	12/31/2019	6/30/2019	90%
2 Raw Sewage Pumping Facility	2/27/2022	2/26/2022	0%
3 Sludge Dewatering Facilities	12/15/2018	10/12/2018 A	100%
4 Effluent Screening and Disinfection	10/14/2021	8/29/2021	0%
5 Effluent Tide Pumping Facilities	1/15/2021	4/8/2020	24%
6 Electrical Distribution Phase E1-E3	9/21/2019	9/6/2019	95%
7 Secondary Flood Protection	8/15/2021	2/13/2021	0%
8 Stormwater Pump Stations	3/31/2019	5/17/2019	80%
9 Upgrade To 3 Generator Operation	3/31/2019	4/25/2019	70%
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	3/22/2019	87%
14 Lawrence & Sage Lake PS	8/30/2018	8/13/2018 A	100%
15 East Avenue Ejector Station	2/13/2021	2/22/2021	0%
16 Level 1 BNR	4/8/2020	4/3/2020	35%
17 Sidestream Deammonification	7/8/2021	3/23/2021	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 and is anticipated to be at substantial completion in late Q2 2019, ahead of the milestone date.

Progress This Quarter:

Contract #S3P311-09S Hempstead Wastewater Force Main:

- Completed installation & tested remaining 30” FM from Jerusalem Ave. & Duryea Ave. to Jerusalem Ave. & Clark Pl.
- Completed pipe jacking 39.25 ID steel casing pipe from west to east under Uniondale Ave.
- Pushed 30” DIP through steel casing pipe and grouted annular space.
- Completed Installation of MH SDA-07 at the Jacking Pit Location
- Completed installation of 8’ dia. drop MH assembly at Jerusalem Ave. & West Dr.
- Paved final top course asphalt at Front Street from South Franklin St. to Ingraham Blvd.
- Backfilled, compacted & paved base & binder asphalt for remaining 30” FM trenches near Uniondale Ave.

Contract #S3P311-09G Hempstead Wastewater Pumping Station:

- Graded site & installed bollards
- Installed top course asphalt at northern portion of the site.
- Installed permanent ornamental fence at northern portion of the site.

Expected Progress Next Quarter:

Hempstead WWFM Project (S3P311-09S)

- Installation of 16” to 14” Bypass Interconnection at Newmans Ct. & South Franklin St. intersection.

Hempstead WWPS Project (S3P311-09G)

- Perform five-day “live sewage test” of pump station system.

2. Raw Sewage Pumping Facility

Progress This Quarter:

The designer progressed with revisions to the bid documents in preparation for bid. The County encountered some delays in the pre-solicitation process and was unable to bid the project this quarter.

Expected Progress Next Quarter:

The County projects advertisement of this construction project for bid in January, 2019.

3. Sludge Dewatering Facilities

This project is nearing completion and is anticipated to achieve substantial completion in Q1 2019. All process equipment has been accepted for beneficial use and DEC has accepted the County's milestone certification for construction completion.

Progress This Quarter:

- Turned over centrifuge operation to Suez.
- Removed temporary dewatering facility services feeds.
- Continued fire alarm, and control conduit and wire installations.
- Continued Power, lighting, fire alarm, and control conduit and wire installations.
- Continued start-up of Motor Control Centers.
- Continued misc. painting.
- Continued PMCS integration.
- Continued misc. patching.
- Continue cleaning of existing stainless-steel doors & frames.
- Continued installation of interior stainless-steel doors and frames.
- Continued installation of roof fans.
- Continued installation of HVAC devices and controls.
- Continued flood plank installations.
- Continued replacements of the digested sludge pumps and grinder.
- Fire Marshal inspection of Fire Suppression, Fire Alarm, and FM-200 Systems.

Expected Progress Next Quarter:

- Continue PMCS and HMCS integration.
- Continue HVAC & Fan installations and testing.
- Electric conduit labeling.
- Conveying system repairs.
- Replacement of exterior and installation of new interior doors.
- FM-200, Fire Suppression, and Fire Alarm System installations.
- General punch list work items.

4. Effluent Screening and Disinfection

Progress This Quarter:

The construction project was advertised and bids received. The County is continuing with the award process.

Expected Progress Next Quarter

The County will continue with the award process for the construction contract and will advertise the services contract for the construction manager. The construction NTP date is currently forecasted beyond the milestone date but the County is taking steps to accelerate the advertisement and award of the construction services contract. The forecasted construction completion remains ahead of the milestone date.

5. Effluent Tide Pumping Facilities

As reported previously, significant delays have been incurred during initial construction of the facility due to unanticipated subsurface conditions which have required a redesign of the

pile foundation system. Schedule recovery efforts were implemented to mitigate schedule delays encountered to date, however a Force Majeure notification was issued by the County and a revised construction complete date was issued by DEC. The project is now projected to complete prior to the new date of 1/15/2021.

Progress This Quarter:

- Placed Concrete & Cure the Foundation Walls Annex Building
- Installed Form & Rebar for New Electrical Annex Building Slab.
- Installed Structural Steel & Cross Bracing for the New Electrical Annex Building.
- Installed Metal Decking Roof for the New Electrical Annex Building
- Installed Electric Grounding in Slab on the 1st Floor of the New Electrical Annex Building.
- Placed concrete & Cure the 1st Floor of the New Electrical Annex Building.

Expected Progress Next Quarter

- Install Electric Grounding in Slab on the Roof of the New Electrical Annex Building.
- Pour Roof Slabs of the New Electrical Annex Building.
- Paint the New Electrical Annex Building Steel.
- Install New Air Conditioner Units on New Annex Building Roof.

6. Electrical Distribution System Phases E1-E3

Phases E1 and E2 were completed 10/19/2016 and 9/29/2017, respectively. Phase E3 completion continues to project ahead of the milestone. The later portions of Phase E3 are related to site lighting and do not impact treatment levels or plant capacity, therefore actual achievement of the consent agreement milestone may be earlier than the substantial completion date for the project.

Progress This Quarter:

- Completed installation of canopy upper panels, MSS.
- Completed Stonehard floor installation at EL. 41.25 rooms and corridor, MSS.
- Completed installation of breakroom appliances & furniture, MSS.
- Continued installation of Substation Room signage, MSS.
- Completed installation of interior doors and associated hardware, MSS.
- Continued installation of lightning protection system on canopy, (approx. 95% complete), MSS
- Continued Emergency Generator control wiring, MSS.
- Continued installation of Substation, EMCS, MIMIC panels, electrical power and control wiring conduits, panels and pull boxes at MSS.
- Continued Switchgear and cable testing, MSS.
- Completed layout of supports, conduit and boxes for Switchgear Room lighting system.
- Completed hanging cable supports and prepping lighting fixtures for installation in Switchgear Room.
- Continuing installation of lighting fixtures in Switchgear Room and wiring same.
- Continued termination of branch circuits at various lighting and emergency panels.
- Continued pulling control wiring to Generator Parallelism control panel, MSS.

- Equipment checks and relay settings at SE-1, S1, EG and USS-1
- Completed pulling quick pull control wiring from EMCS panels to MCC-MSS in Electrical room.
- Began terminating control wiring for EMCS system at various MCC-MSS equipment buckets.
- Continued installation of contract handholes and duct banks for Site Lighting in Grids 4, 8, 10 & 12.
- Completed installation of conduit from SE-1 / S1 Annunciator CP to Switchgear S1.
- Completed pulling control wiring from SE-1 / S1 Annunciator CP to Switchgear S1.
- Mounted EG Annunciator panel and started conduit from same to EG Switchgear.
- Completed installation of conduit, boxes and wiring for elevator pit receptacle and light.
- Pulled control wiring (60 No. 10 quick pulls) from S1 to Generator Bldg for P-115.
- Continued conduit and box installation in existing Substation No.1 for 480V feeds to existing MCC's.
- Began Site Lighting (CO No 97), HH test pits.
- Completed energization of PSE&G interim 13.2 KV service to MSS.
- Completed installation of Generator Parallelism control panel, MSS.
- Completed installation of battery racks and batteries, MSS

Expected Progress Next Quarter:

- Installation of external lights, EL. 18.25, MSS.
- Installation of stairwell lighting, north and south sides, MSS.
- Installation of canopy lower panels, MSS.
- Install of curtain wall Mock up, MSS.
- Install remaining top five sunshades, MSS.
- Install South-side Flood doors, MSS.
- Continue conduit and wire installation in MSS.
- Continue installation of Substation, EMCS, MIMIC panels, electrical power and control wiring conduits, panels and pull boxes at MSS.
- Continue to pull and terminate control wiring at Generator Parallelism control panel.
- Continue terminating EMCS control wiring at various MCC-MSS buckets.
- Siemens continue check-out of SE-1, S1, EG, USS-1 and MCC-MSS.
- Energize SE1, Utility Load Break Switch, MCC-MSS, CC transformers and USS1.
- Complete conduit from EG Annunciator CP to EG Switchgear.
- Continue control wiring from SE-1 / S1 to Switchgear cubicles.
- Continue conduit install for 480V conduit feeds to existing MCC's in Existing Substation No.1.
- Continue to install Contract site lighting handholes and associated duct banks.
- Pull fiber optic cable for P-115 from the MSS Bldg to the Generator Bldg.

7. Secondary Flood Protection

Progress This Quarter:

The County is progressing the award and NTP.

Expected Progress Next Quarter:

This project is expected to be awarded and NTP will be issued upon final procurement of a Construction Management consultant. NTP is anticipated in Q1 2019.

8. Stormwater Pump Stations

The work has been delayed by contractor performance issues and is currently projected to be complete 45 days beyond the agreement milestone date of March 31, 2019. The County has requested a recovery schedule and it has not been received. The County will seek its contractual recourse for the delay, including liquidated damages unless recovery is achieved.

Progress This Quarter:

- Completed Miscellaneous Stormwater Improvement No 5.
- Completed Miscellaneous Stormwater Improvement No. 2
- Placed Reinforced Concrete Deck for South MCC Slab.
- Completed Installation of the South Pump Station Cable Tray.
- Completed Painting of the North Pump Station Piping.
- Completed Installation of Communication and Feeder Duct Banks for the South MCC.
- Completed Installation of the South Pump Station Stop Logs.
- Completed installation of the Catch Basins for Miscellaneous Improvement #2.
- Completed the HVAC Ductwork for the North MCC Building.
- Set all Wet Well Float Switches at South Pump Station
- Installed South MCC Building Support Posts and Interior and Exterior Metal Siding Panels.
- Placed Reinforced Concrete Roof Slab and Parapet for South MCC Building Roof.
- Dismantled the North Interim Pumping System.
- Installed Gas Detection System Instruments in South Pump Station.
- Placed Diversion Chamber Reinforced Concrete Infill for the South Pump Station.
- Restored Curbs for Miscellaneous Stormwater Improvement No. 5.

Expected Progress Next Quarter:

North Pump Station:

- Install stop log frame at North Gate Chamber.
- Start up and test wet well submersible pumps.
- Install equipment/pipe ID tags.
- Start up and test gas detection system.
- Start up and test sump pumps.
- Start up and test SCADA system

North Pump Station MCC Building:

- Complete main pumps control cable change order work.
- Acceptance test of MCC-Z3.
- Energize MCC-Z3.
- Test flood door.
- Start up and test MCC and transformers.
- Start up and test CRAC units and ACCU Units.

South Pump Station:

- Complete Plant chlorine analyzer signal wire temporary relocation change order work.
- Continue RCP placement to diversion chamber.
- Install SCADA conduit.
- Install exterior lighting conduit and fixtures.
- Terminate pump cables.
- Pull and terminate SCADA wire.
- Complete underground conduit duct bank to South Pump Station.

South MCC Building:

- Install grounding
- Install stairs to MCC platform.
- Continue painting building steel.
- Install building siding.
- Install building sun screen system.
- Install roofing.
- Install MCC-Y3.
- Set ACCU units.
- Install ATS.
- Install transformer.
- Install SCADA panel.
- Install HVAC ductwork.
- Set CRAC units.
- Install unit heaters.
- Install exhaust fans.
- Install gas monitoring panel.
- Install electrical conduit.
- Install exterior door.

9. Upgrade to 3 Simultaneous Generator Operation

The project is currently projected to complete a month behind the revised milestone date. A Force Majeure notification has been submitted reflecting manufacturing issues related to suppliers affected by hurricanes. The County has attributed 49 days of delay to the hurricanes.

Progress This Quarter:

- Continued insulation of TCL and ECL piping.
- Installed one Natural Gas Compressors.
- Wired and installed two Automatic Transfer Switches.

Expected Progress Next Quarter:

- Continue installation of Natural Gas Compressors.
- Install conduits for Natural Gas Compressors.
- Startup Automatic Transfer Switches.

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 & Rav 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

This project has achieved substantial completion and has met the milestone this quarter. Certificate of completion has been submitted.

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

This project is on schedule to meet the milestone.

Progress This Quarter:

- Completed installation of peak flow pumps at Inwood P.S.
- Completed 5-day pump test for the Doughty Blvd. P.S. new submersible pumps.
- Completed flood door installation at Roslyn Rd. P.S.
- Completed access hatch installation at Bayview Ave. P.S.
- Commenced platform installation work at Inwood P.S.
- Commenced Inwood P.S. Generator Electrical MOPO work.
- Completed electrical MOPO at Roslyn PS (electrical service cabinet & generator connection).
- Progressed Fire Alarm installation work at Inwood, Roslyn, and Doughty P.S.
- Completed field testing of sump pump installation at Inwood and Doughty P.S.
- Completed submersible pump training.
- Completed painting all pump stations.
- Progressed preliminary punch list work items.
- Completed valve training.

Expected Progress Next Quarter:

- Complete Inwood P.S. Generator Electrical MOPO
- Progress Inwood P.S. platform installations
- Progress Fire Alarm installations at all Pump Stations
- Commence gas detection system installation
- Progress preliminary punch list work items
- Schedule training for peak flow pumps, odor control, and sump pumps.

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 to be advertised in Q4 2018, however, the resolution to delays in procuring a construction manager for this project were longer than anticipated last quarter. The union objections have been addressed and the County will advertise the construction management and construction contracts in Q1 2019. The milestone date for NTP to 4/15/2019 will not be met, however the County will

take steps to meet the construction completion milestone. Additional information will be provided in the Q4 report as it becomes available.

16. Level 1 BNR

In Q3, the forecast was 12 days beyond the milestone date. The execution of the temporary power change order has expedited work and the project is now projected to finish ahead of the milestone date.

Progress This Quarter:

- Installed FRP effluent troughs in Final Settling Tank No. 8.
- Conducted Field Tests for the Invent Mixers and Sanitaire Diffusers.
- Restored Influent Flow in Aeration Tank No. 5.
- Took Aeration Tank No. 4 out of operation & Completed tank cleaning & demolition of the diffusers
- Installed 12” SS SWAS pipe in Pass A in Aeration Tank No. 4.
- Completed MIC Coating in Aeration Tank No.4.
- Started the installation of baffle wall, diffuser piping and mixer supports in Aeration Tank No.4.
- Continued to install SWAS Piping in Pipe Gallery.
- Installed FRP Effluent Troughs in Final Settling Tank No.7.

Expected Progress Next Quarter:

- Replace the defoamant dilution valve after the Plant isolates the effluent water loop.
- Install the standpipe in the pipe gallery.
- Continue to install SWAS Piping in Pipe Gallery.
- Continue the installation of baffle wall, diffuser piping and mixer supports in Aeration Tank No. 4.

17. Sidestream Deammonification

Not yet in the construction phase. The NTP is currently projected to be issued in time to achieve the revised milestone date of 3/25/2019.

IV.0

Inter Municipal Agreement

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

The City of Long Beach had been slow to respond to requests for information necessary to analyze the financial impact of the possible consolidation the County and City sewer systems. The County has begun to receive information from the City. Additionally, the County continues to explore acquisition financing through EFC and grant funding opportunities at the state and federal level.

While the County continues to work with the City of Long Beach to develop an economically viable agreement, the County continues to move forward with components of the interconnection, such as the Austin Blvd force main, for which the County has made a WQIP grant application. The construction contract for the force main was advertised on September 8, 2018 and bids were received November 13, 2018. The low bid was more than double the engineer's estimate and a value engineering analysis is currently being performed to determine the next course of action.

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

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

These milestones will be reviewed as the Sidestream Deammonification and Level 1 BNR projects progress through the construction phase.

VI.0

Diversion Project

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

Table 6 – Diversion Project Milestones

Description of Work	Completion Date
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 County has selected a consultant for the preliminary design phase and is proceeding with the award process.

Expected Progress Next Quarter:

The County issued Notice to Proceed to the preliminary design consultant on December 12, 2018. The first milestone of the contract is to provide a preliminary engineering report and environmental/permitting work plan by March 11, 2019.

Project Milestones:

NYSDEC is considering adjusting the milestones.

VII.0

Environmental Benefit Projects

The County acknowledges DEC's comment in their December 7, 2018 acceptance of the Q3 2018 Report, waiving the requirement for a separate EBP plan. The County will convene the various stakeholders in Q1 2019 to develop the scope, schedule and budget for the kayak launch.

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

IX.0

Community Relations

In the fourth quarter of 2018, a community meeting was held on November 13, 2018. Meeting minutes are attached. The next meeting will be held in the spring of 2019.

X.0

Attachments

1. Program Master Schedule
2. Community Meeting Minutes

Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Bay Park Master Schedule 181231																	
Existing Capital Projects																	
S3B119-05G - Generator Controls																	
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	■	■	■	■	■	■	■	■	■	■	■	■
S3B120-01G - Influent Screening Facility Improvements																	
CM Contract																	
RFP / Advertise CM Services - Influent Screening	30	0	20-Apr-13 A	24-May-13 A	100	■	■	■	■	■	■	■	■	■	■	■	■
Award / NTP 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	■	■	■	■	■	■	■	■	■	■	■	■
S3B120-02G - Grit Removal Facility Improvements																	
CM Contract																	
RFP / Advertise CM Services - Grit Removal	30	0	07-Oct-13 A	25-Oct-13 A	100	■	■	■	■	■	■	■	■	■	■	■	■
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	■	■	■	■	■	■	■	■	■	■	■	■
S35100-01G - Cleaning & Repair of Digesters & Storage Tanks																	
Construction																	
Construction - Digester Cleaning	720	0	20-May-13 A	16-Apr-15 A	100	■	■	■	■	■	■	■	■	■	■	■	■
S35114-03G - Sludge Thickening Facility Improvements																	
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	■	■	■	■	■	■	■	■	■	■	■	■
S35116-01G - Odor Control at Bay Park & Cedar Creek																	
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	■	■	■	■	■	■	■	■	■	■	■	■
Hurricane Sandy Projects																	
FEMA Approval Process																	
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	■	■	■	■	■	■	■	■	■	■	■	■

■ 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
FEMA Scope and Cost Negotiation	90	0	20-Dec-13 A	15-Jan-14 A	100												
S35121-01G/E - Final Settling Tank Rehabilitation																	
Construction Contract																	
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												
CM Contract																	
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												
S35121-03G - Raw Sewage Pumping Facility																	
CM Contract																	
RFP / Advertise CM Services - Raw Sewage Pumping Facility	29	29	25-Jan-19*	22-Feb-19	0												
Award / NTP CM Services - Raw Sewage Pumping Facility	180	180	23-Feb-19	21-Aug-19	0												
Design Process																	
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												
Bid / Construction																	
County Prepare Bid for Advertisement - Raw Sewage Pumping Facility	7	7	25-Jan-19*	31-Jan-19	0												
Bid / Advertise - Raw Sewage Pumping Facility	29	29	01-Feb-19	01-Mar-19	0												
Bid Opening - Raw Sewage Pumping Facility	1	1	05-Mar-19	05-Mar-19	0												
Award / NTP - Raw Sewage Pumping Facility	180	180	06-Mar-19	01-Sep-19	0												
Construction - Raw Sewage Pumping Facility	910	910	01-Sep-19	26-Feb-22*	0												
S35121-09G - Sludge Dewatering																	
CM Contract																	
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												
Design Process																	
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												
Centrifuge Pilot Testing																	
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												
Bid / Construction																	
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	59	07-Dec-15 A	28-Feb-19*	94												
S35121-09R - Sludge Dewatering Demolition																	
Design Process																	
100% Design - Dewatering Demolition	89	0	02-Jan-14 A	31-Mar-14 A	100												
Bid / Construction																	
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												

■ 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												
S35121-11G - Effluent Screening & Disinfection																	
CM Contract																	
RFP / Advertise CM Services - Effluent Screening & Disinfection	29	29	25-Jan-19*	22-Feb-19	0												
Award / NTP CM Services - Effluent Screening & Disinfection	135	135	23-Feb-19	07-Jul-19	0												
Design Process																	
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												
Bid / Construction																	
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	41	15-Aug-18 A	10-Feb-19	77												
Construction - Effluent Screening & Disinfection	785	785	07-Jul-19	29-Aug-21*	0												
S35121-12G - Effluent Pumping Facility Improvements																	
CM Contract																	
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												
Design Process																	
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												
Bid / Construction																	
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 Tide PB	820	464	24-Aug-17 A	08-Apr-20*	43												
S35121-13E - Phase E1 Electrical Distribution Systems Improvements																	
CM Contract																	
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												
Design Process																	
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												
Bid / Construction																	
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												
S35121-14E - Phase E2 Unit Substation No. 2 & Electrical Distribution																	
Design Process																	
Phase E2 Design - EDS - USS No. 2	155	0	04-Apr-14 A	18-Aug-14 A	100												
Bid / Construction																	
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												

█ 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	15-Feb-19	13-Feb-21*	0												
S35121-16P - Heating Hot Water Piping Permanent System																	
CM Contract																	
RFP / Advertise CM Services - Heating Hot Water Piping Permanent System	29	29	24-Apr-19	22-May-19	0												
Award / NTP CM Services - Heating Hot Water Piping Permanent System	190	190	23-May-19	28-Nov-19	0												
Design Process																	
Preliminary Design - Heating Hot Water Piping Permanent System	90	0	02-Nov-15 A	09-Sep-16 A	100												
RFP / Advertise - Final Design - Heating Hot Water Piping Permanent System	29	0	19-Oct-18 A	16-Nov-18 A	100												
Award / NTP Final Design - Heating Hot Water Piping Permanent System	159	114	16-Nov-18 A	24-Apr-19	28												
Final Design - Heating Hot Water Piping Permanent System	210	210	24-Apr-19	19-Nov-19	0												
Bid / Construction																	
County Prepare Bid for Advertisement - Hot/Chilled Water System Upgrades	7	7	20-Nov-19	26-Nov-19	0												
Bid / Advertise - Heating Hot Water Piping Permanent System	29	29	29-Nov-19	27-Dec-19	0												
Bid Opening - Heating Hot Water Piping Permanent System	1	1	31-Dec-19	31-Dec-19	0												
Award / NTP - Heating Hot Water Piping Permanent System	180	180	01-Jan-20	28-Jun-20	0												
Construction - Heating Hot Water Piping Permanent System	730	730	28-Jun-20	27-Jun-22*	0												
S35121-16TR - Vehicle Fueling & Tanks Reconstruction																	
Design Process																	
Design - Vehicle Fueling	53	0	10-Mar-14 A	02-May-14 A	100												
Bid / Construction																	
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												
S35121-16V - Dechlorination Vault Storm Mitigation																	
Design Process																	
Design - Dechlor Sample Vault Hardening	180	0	27-Mar-15 A	22-Oct-15 A	100												
Bid / Construction																	
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												
S35121-17G - Perimeter Flood Protection																	
CM Contract																	
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												
Design Process																	
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												
Bid / Construction																	
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												
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												

█ 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
S35121-18G - Flood Protection Phase 1 Stormwater Pumping Stations																	
CM Contract																	
RFP / Advertise CM Services - Flood Protection Phase 1 Stormwater PS	29	0	31-Jul-15 A	28-Aug-15 A	100												
Award / NTP CM Services - Flood Protection Phase 1 Stormwater PS	90	0	29-Aug-15 A	17-Jun-16 A	100												
Design Process																	
Preliminary Design Flood Protection Phase 1 Stormwater PS	97	0	18-Dec-13 A	17-Apr-14 A	100												
RFP / Advertise Final Design Flood Protection Phase 1 Stormwater PS	29	0	18-Apr-14 A	16-May-14 A	100												
Award / NTP Final Design Flood Protection Phase 1 Stormwater PS	90	0	17-May-14 A	10-Nov-14 A	100												
Final Design Flood Protection Phase 1 Stormwater PS	210	0	10-Nov-14 A	28-Aug-15 A	100												
Bid / Construction																	
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	137	31-May-16 A	17-May-19*	82												
S35121-18S - Flood Protection Phase 2 Stormwater Green Infrastructure																	
CM Contract																	
RFP / Advertise CM Services - Flood Protection Phase 2 Stormwater GI	29	29	09-Apr-20	07-May-20	0												
Award / NTP CM Services - Flood Protection Phase 2 Stormwater GI	180	180	08-May-20	03-Nov-20	0												
Design Process																	
Preliminary Design - Flood Protection Phase 2 Stormwater GI	96	0	31-Jan-16 A	26-May-16 A	100												
RFP / Advertise - Final Design Flood Protection Phase 2 Stormwater GI	29	0	27-May-16 A	24-Jun-16 A	100												
Award / NTP Final Design - Flood Protection Phase 2 Stormwater GI	90	35	25-Jun-16 A	03-Oct-19	61												
Final Design - Flood Protection Phase 2 Stormwater GI	210	210	04-Oct-19	30-Apr-20	0												
Bid / Construction																	
County Prepare Bid for Advertisement - Flood Protection Phase 2 Stormwater GI	7	7	01-May-20	07-May-20	0												
Bid / Advertise Flood Protection - Phase 2 Stormwater GI	29	29	08-May-20	05-Jun-20	0												
Bid Opening Flood Protection - Phase 2 Stormwater GI	1	1	09-Jun-20	09-Jun-20	0												
Award / NTP Flood Protection - Phase 2 Stormwater GI	180	180	10-Jun-20	06-Dec-20	0												
Construction - Flood Protection - Phase 2 Stormwater GI	365	365	06-Dec-20	05-Dec-21*	0												
S35123-L37 - Miscellaneous Storm Repairs, Mitigation & Site Restoration																	
CM Contract																	
RFP / Advertise CM Services - Misc Storm Repairs, Mitigation & Restoration	29	29	05-Mar-20	02-Apr-20	0												
Award / NTP CM Services - Misc Storm Repairs, Mitigation & Restoration	180	180	03-Apr-20	29-Sep-20	0												
Design Process																	
Conceptual Design - Misc Storm Repairs, Mitigation & Site Restoration	91	91	02-Jan-19*	02-Apr-19	0												
RFP / Advertise - Final Design - Misc Storm Repairs, Mitigation & Site Restoration	29	29	03-Apr-19	01-May-19	0												
Award / NTP Final Design - Misc Storm Repairs, Mitigation & Site Restoration	180	180	02-May-19	28-Oct-19	0												
Final Design - Misc Storm Repairs, Mitigation & Site Restoration	180	180	28-Oct-19	24-Apr-20	0												
Bid / Construction																	
County Prepare Bid for Advertisement - Misc Storm Repairs, Mitigation & Site Restor	7	7	24-Apr-20	30-Apr-20	0												
Bid / Advertise - Misc Storm Repairs, Mitigation & Site Restoration	29	29	01-May-20	29-May-20	0												
Bid Opening - Misc Storm Repairs, Mitigation & Site Restoration	1	1	02-Jun-20	02-Jun-20	0												
Award / NTP - Misc Storm Repairs, Mitigation & Site Restoration	180	180	03-Jun-20	29-Nov-20	0												
Construction - Misc Storm Repairs, Mitigation & Site Restoration	365	365	29-Nov-20	28-Nov-21*	0												
S3B119-06G - Bay Park STP Heating Hot Water Piping Temporary System																	
Design Process																	
Final Design - Heating Hot Water Piping Temporary System	90	0	01-May-15 A	17-Jun-15 A	100												
Bid / Construction																	
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												

█ 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
S35121-06G - Aeration Blower Facility																	
CM Contract																	
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												
Design Process																	
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	328	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												
Final Design - Aeration Blower Facility	240	240	21-Jun-20	15-Feb-21	0												
Bid / Construction																	
County Prepare Bid for Advertisement - Aeration Blower Facility	7	7	18-Feb-21	24-Feb-21	0												
Bid / Advertise - Aeration Blower Facility	29	29	26-Feb-21	26-Mar-21	0												
Bid Opening - Aeration Blower Facility	1	1	30-Mar-21	30-Mar-21	0												
Award / NTP - Aeration Blower Facility	180	180	31-Mar-21	26-Sep-21	0												
Construction - Aeration Blower Facility	1095	1095	26-Sep-21	24-Sep-24*	0												
S3P311 - Pump Stations																	
S3P311-01G - Dock Place & Southland Drive																	
Construction																	
Construction - Dock Place & Southland Drive Pump Stations	240	0	28-Oct-13 A	31-Oct-14 A	100												
S3P311-02G - Cedar, Roosevelt, Whitewood, Biltmore & Alhambra																	
Design Process																	
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												
Bid / Construction																	
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												
S3P311-03G - Wantagh, Newbridge, Merrick & Ray																	
Design Process																	
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												
Bid / Construction																	
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												
S3P311-02M - PS2 & PS3 Construction Management																	
CM Contract																	
RFP / Advertise CM Services - PS2 & PS3	29	0	03-Oct-14 A	31-Oct-14 A	100												
Award / NTP CM Services - PS2 & PS3	90	0	01-Nov-14 A	03-Mar-16 A	100												
S3P311-04G - Felix, Fox, Northern & Grand																	
Design Process																	
Finalize Technical Memorandum - Pump Station 4	140	0	12-Aug-13 A	22-Nov-13 A	100												

█ 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
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			■									
Bid / Construction																	
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				■	■							
S3P311-05G - Millar, Mott, Long Beach, Royal & Lido																	
Design Process																	
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			■									
Bid / Construction																	
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				■	■							
S3P311-04M - PS4 & PS5 Construction Management																	
CM Contract																	
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			■	■								
S3P311-06G - Ocean, Mill, Woodmere & Longacre																	
Design Process																	
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			■									
Bid / Construction																	
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				■	■							
S3P311-07G - Inwood, Doughty, Bayview & Roslyn																	
Design Process																	
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			■									
Bid / Construction																	
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	81	15-Mar-17 A	22-Mar-19*	85				■	■							

■ 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
S3P311-06M - PS6 & PS7 Construction Management																	
CM Contract																	
RFP / Advertise CM Services - PS6, PS7 & PS8	29	0	22-May-15 A	19-Jun-15 A	100												
Award / NTP CM Services - PS6, PS7 & PS8	90	0	20-Jun-15 A	15-Mar-17 A	100												
S3P311-08G - East Avenue																	
CM Contract																	
RFP / Advertise CM Services - East Avenue Pump Station	29	29	08-Feb-19	08-Mar-19	0												
Award / NTP CM Services - East Avenue Pump Station	175	175	09-Mar-19	30-Aug-19	0												
Design Process																	
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												
Bid / Construction																	
County Prepare Bid for Advertisement - East Avenue Pump Station	7	38	24-Dec-17 A	07-Feb-19	0												
Bid / Advertise - East Avenue Pump Station	29	29	08-Feb-19	08-Mar-19	0												
Bid Opening - East Avenue Pump Station	1	1	12-Mar-19	12-Mar-19	0												
Award / NTP - East Avenue Pump Station	175	175	12-Mar-19	02-Sep-19	0												
Construction - East Avenue Pump Station	540	540	02-Sep-19	22-Feb-21*	0												
S3P311-09G - Hempstead Wastewater Pumping Station																	
Design Process																	
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												
Bid / Construction																	
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	181	25-Apr-16 A	30-Jun-19*	61												
S3P311-09S - Hempstead Wastewater Force Main																	
Design Process																	
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												
Bid / Construction																	
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	106	25-Apr-16 A	16-Apr-19*	76												
S3P311-09M - Hempstead Wastewater Pumping Station & Force Main CM																	
CM Contract																	
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												
S3P311-10G - Lawrence PS (STP) & Sage Lake PS																	
CM Contract																	
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												
Design Process																	
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												

█ 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
Bid / Construction																		
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													
S3P311-11G - Roslyn Village, Morgan Park & Shore Road																		
CM Contract																		
RFP / Advertise CM Services - Roslyn Village, Morgan Park & Shore Rd	47	0	05-Oct-18 A	02-Nov-18 A	53													
Award / NTP CM Services - Roslyn Village, Morgan Park & Shore Rd	180	122	03-Nov-18 A	02-May-19	32													
Design Process																		
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													
Bid / Construction																		
County Prepare Bid for Advertisement - Roslyn Village, Morgan Park & Shore Rd	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													
Bid Opening - Roslyn Village, Morgan Park & Shore Rd	1	0	12-Dec-17 A	12-Dec-17 A	100													
Award / NTP - Roslyn Village, Morgan Park & Shore Rd	90	31	13-Dec-17 A	02-May-19	66													
Construction - Roslyn Village, Morgan Park & Shore Rd	365	365	03-May-19	01-May-20*	0													
S80019-03GR - Cedar Point Lake (Doxey Brook) Pump Station																		
CM Contract																		
RFP / Advertise CM Services - Cedar Point Lake PS	29	0	01-Dec-16 A	23-Dec-16 A	100													
Award / NTP CM Services - Cedar Point Lake PS	90	0	24-Dec-16 A	03-Jan-18 A	100													
Design Process																		
Final Design - Cedar Point Lake PS	180	0	10-Feb-16 A	28-Oct-16 A	100													
Bid / Construction																		
County Prepare Bid for Advertisement - Cedar Point Lake PS	7	0	29-Oct-16 A	01-Dec-16 A	100													
Bid / Advertise - Cedar Point Lake PS	29	0	02-Dec-16 A	06-Jan-17 A	100													
Bid Opening - Cedar Point Lake PS	1	0	10-Jan-17 A	10-Jan-17 A	100													
Award / NTP - Cedar Point Lake PS	90	0	11-Jan-17 A	03-Jan-18 A	100													
Construction - Cedar Point Lake PS	540	361	03-Jan-18 A	27-Dec-19*	33													
Nitrogen Reduction Projects																		
S35123-L38G - Sidestream Deammonification																		
CM Contract																		
RFP / Advertise CM Services - Sidestream Centrate Treatment	29	0	28-Jul-17 A	25-Aug-17 A	100													
Award / NTP CM Services - Sidestream Centrate Treatment	90	83	26-Aug-17 A	24-Mar-19	8													
RFP Process																		
Develop / Issue RFI - Sidestream Centrate Treatment	60	0	30-Sep-14 A	26-May-15 A	100													
RFI Response Period - Sidestream Centrate Treatment	41	0	26-May-15 A	07-Aug-15 A	100													
RFI Evaluation Period - Sidestream Centrate Treatment	88	0	08-Aug-15 A	29-Feb-16 A	100													
NCDPW Review & Award Sidestream Centrate Treatment	120	0	01-Mar-16 A	26-Sep-16 A	100													
Design Process																		
Complete Technical Design Report	60	0	27-Sep-16 A	26-Nov-16 A	100													
Detailed Design - Sidestream Centrate Treatment	275	0	27-Sep-16 A	31-Oct-17 A	100													
Bid / Construction																		
County Prepare Bid for Advertisement - Sidestream Centrate Treatment	17	0	01-Nov-17 A	16-Nov-17 A	100													
Bid / Advertise - Sidestream Centrate Treatment	29	0	17-Nov-17 A	05-Jan-18 A	100													
Bid Opening - Sidestream Centrate Treatment	1	0	09-Jan-18 A	09-Jan-18 A	100													
Award / NTP - Sidestream Centrate Treatment - Canceled - Re-bid	90	0	10-Jan-18 A	23-Aug-18 A	100													
Re-Bid / Advertise - Sidestream Centrate Treatment	29	0	24-Aug-18 A	21-Sep-18 A	100													
Re-Bid Opening - Sidestream Centrate Treatment	1	0	25-Sep-18 A	25-Sep-18 A	100													
Award / NTP - Sidestream Centrate Treatment	180	83	26-Sep-18 A	24-Mar-19	54													

■ 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 - Sidestream Centrate Treatment	730	730	25-Mar-19	23-Mar-21*	0												
S35123-L39G - Level 1 BNR Improvements																	
CM Contract																	
RFP / Advertise CM Services - Level 1 BNR Improvements	31	0	29-Jul-16 A	26-Aug-16 A	100												
Award / NTP CM Services - Level 1 BNR Improvements	90	0	27-Aug-16 A	05-Jul-17 A	100												
Design Process																	
Design - Level 1 BNR Improvements	120	0	30-Nov-15 A	23-Sep-16 A	100												
Bid / Construction																	
County Prepare Bid for Advertisement - Level 1 BNR Improvements	7	0	24-Sep-16 A	29-Sep-16 A	100												
Bid / Advertise - Level 1 BNR Improvements	29	0	30-Sep-16 A	11-Nov-16 A	100												
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	459	05-Jul-17 A	03-Apr-20*	50												
Long Beach WPCP Diversion																	
S35109-01C - Long Beach Diversion																	
CM Contract																	
RFP / Advertise CM Services - Long Beach Diversion	29	29	30-Jun-20	28-Jul-20	0												
Award / NTP CM Services - Long Beach Diversion	90	90	29-Jul-20	26-Oct-20	0												
Design Process																	
Prepare RFP - Long Beach Conversion Design	30	31	31-Jan-16 A	31-Jan-19	0												
RFP / Advertise Final Design - Long Beach Diversion	29	29	01-Feb-19*	01-Mar-19	0												
Award / NTP Final Design - Long Beach Diversion	120	120	02-Mar-19	29-Jun-19	0												
Prepare Technical Design Report	100	100	30-Jun-19	07-Oct-19	0												
Final Design - Long Beach Diversion	255	255	09-Oct-19	19-Jun-20	0												
Bid / Construction																	
County Prepare Bid for Advertisement - Long Beach Diversion	7	7	19-Jun-20	25-Jun-20	0												
Bid / Advertise - Long Beach Diversion	29	29	26-Jun-20	24-Jul-20	0												
Bid Opening - Long Beach Diversion	1	1	28-Jul-20	28-Jul-20	0												
Award / NTP - Long Beach Diversion	90	90	29-Jul-20	26-Oct-20	0												
Construction - Long Beach Diversion	510	510	27-Oct-20	20-Mar-22*	0												
S35109-02G - Austin Boulevard Force Main																	
CM Contract																	
RFP / Advertise CM Services - Austin Boulevard Force Main	29	29	04-Jan-19*	01-Feb-19	0												
Award / NTP CM Services - Austin Boulevard Force Main	90	90	02-Feb-19	02-May-19	0												
Design Process																	
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 Force Main Design	14	0	27-Feb-16 A	01-Jun-16 A	100												
Final Design - Austin Boulevard Force Main	310	0	01-Jun-16 A	07-Sep-18 A	100												
Bid / Construction																	
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												
Award / NTP - Austin Boulevard Force Main	90	42	14-Nov-18 A	11-Feb-19	53												
Construction - Austin Boulevard Force Main	540	540	03-May-19	23-Oct-20*	0												
Milestones																	
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

November 13, 2018 Community Meeting

Meeting began at 7:00PM, in the Bay Park Civic Association.

Attendees to Note: Kenneth Arnold, Vinny Falkowski, Robert Pedenzin, Maryanne Dioquino, Peter Glus, Fred Treffeisen, Trisha Kearney. NC police officers were also present.

JV/County Updates

- Drainage - Harbor Road and 1st Avenue
 - JV is following up on the plans to repave the road
 - JV is aware of the drainage issues that need correcting on 1st avenue
- West Park
 - Meeting will be held in the Spring with the County, Parks Department and Community Members
 - The exercise stations will be reviewed/ addressed in the wrap-up contract
- East Park
 - Local football coach raised concerns about the settling of the football field. JV said the topography and settling will be evaluated
 - County is looking in to the availability of parking during events
- Marine Bureau Berm
 - Police Department is addressing the low flying helicopters
- Odors
 - Suez stated that there were 12 complaints since May
 - Suez stated that they are aware of the odor issues due to the aeration tank work
- Electric Utility
 - County said that negotiations with PSE&G are now moving forward
- Dewatering Building
 - JV said that the building is now operating on 2 of 4 centrifuges
- BNR
 - JV said AT5 is up, AT4 is down for hydrogen sulfides, tanks 1-4 are being worked on, tank 5 is down, 1 more year is expected on BNR
- Diversion to Cedar Creek
 - County said that contract is about to be awarded
 - County said that the notice to proceed can be expected in early 2019
- Pump Station for Boats
 - County will address the Community concerns
- Tour of the Plant
 - County said that JV will coordinate with the Community to host a tour of the plant in the Spring
- Stormwater Run-off
 - County said that they are addressing the ways to control Nitrogen run-off

- Other non-plant/ non-Bay Park Program related topics:
 - Disposal of Prescription Drugs – Police Department advised the correct disposal of prescription is at the local station. An officer took expired prescription drugs from a local Community member and advised they would dispose of them.
 - Local Water Quality – Another Community member advised that American Water Company (AWC) is responsible and doing construction currently. It was suggested to report to AWC.

Meeting concluded at approximately 8:00 pm

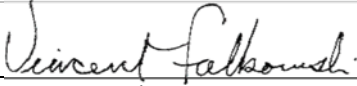
Next meeting date will be in the spring of 2019, R. Faseler to coordinate with Bay Park Civic Association.

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
		1/28/2019
Signature		Date Signed