

April 30, 2020

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

Agreement DEC Index No: CO 1-20170626-244

Bay Park Sewage Treatment Plant
2020 Q1 Quarterly Report

Dear Mr. Hampston:

We are submitting herewith our Quarterly Report for the period of January 1, 2020 through March 31, 2020.

Very truly yours,



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

c:	NCDPW <i>Kenneth Arnold</i> <i>Edward Visone</i> <i>John Domenica</i> <i>Jane Houdek</i> <i>Karen Fay</i> <i>Elisa Picca</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> <i>Ryan Waldman</i>
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DEC Agreement Q1 2020 Report



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Background

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

The construction of the improvements is catalogued in the Agreement with the New York State Department of Environmental Conservation CO 1-20170626-244 ("Agreement") in January 2018. In accordance with Section VI, Paragraphs A-C of the Agreement the DPW hereby submits to the New York State Department of Environmental Conservation (DEC) the Quarterly Report for the period of January 1, 2020 through March 31, 2020.

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

I.0

Executive Summary

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

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

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

Additional information is included to provide a comprehensive representation of the County's efforts towards achieving compliance with the Agreement. This Quarterly Report updates the status and progress of DPW's compliance with the milestones set forth in the Agreement during the period from January 1, 2020 through March 31, 2020 (“Reporting Quarter”).

There are no key staff changes to report this quarter, however the COVID-19 work restrictions the County has implemented currently limit the number of staff at any County facility. There may be impacts on contract execution and implementation in Q2 2020 and accordingly a Force Majeure notice was submitted March 19, 2020. In recognition of potential delays, a milestone modification request was submitted March 27, 2020.

II.0 d 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 ¹
Raw Sewage Pumping NTP	12/3/2018	8/24/2018	5/15/2019	9/12/2018	5/15/2019
Raw Sewage Pumping NTP	5/15/2019	5/3/2019	11/23/2019	7/1/2019	11/23/2019
Raw Sewage Pumping NTP	11/23/2019	3/27/2020	9/30/2020		
Raw Sewage Pumping CC	12/1/2020	8/24/2018	2/27/2022	9/12/2018	2/27/2022
Raw Sewage Pumping CC	2/27/2022	3/27/2020	9/15/2023		
Effluent Screening NTP	8/21/2018	8/24/2018	2/21/2019	9/12/2018	2/21/2019
Effluent Screening NTP	2/21/2019	5/3/2019	10/5/2019	7/1/2019	10/5/2019
Effluent Screening NTP	10/5/2019	3/27/2020	9/30/2020		
Effluent Screening CC	7/29/2020	8/24/2018	10/14/2021	9/12/2018	10/14/2021
Effluent Screening CC	10/14/2021	3/27/2020	5/22/2023		
Secondary Flood NTP	6/5/2018	8/24/2018	2/15/2019	9/12/2018	2/15/2019
Secondary Flood NTP	2/15/2019	5/3/2019	7/20/2019	7/1/2019	7/20/2019
Secondary Flood NTP	7/20/2019	12/31/2019	12/18/2019	-	-
Secondary Flood CC	7/26/2020	8/24/2018	8/15/2021	9/12/2018	8/15/2021
Secondary Flood CC	8/15/2021	12/31/2019	6/17/2022	-	-
Stormwater Pump Stations CC	3/31/2018	8/24/2018	3/31/2019	9/12/2018	3/31/2019
3 Generator Operation CC	11/30/2018	8/24/2018	3/31/2019	9/12/2018	3/31/2019
3 Generator Operation CC	3/31/2019	1/10/2019 ²	5/19/2019	2/22/2019	5/19/2019
East Avenue Station NTP	8/19/2018	8/24/2018	4/15/2019	9/12/2018	4/15/2019
East Avenue Station NTP	4/15/2019	5/3/2019	11/23/2019	7/1/2019	11/23/2019
East Avenue Station NTP	11/23/2019	3/27/2020	9/30/2020		
East Avenue Station CC	12/28/2019	8/24/2018	2/13/2021	9/12/2018	2/13/2021
East Avenue Station CC	2/13/2019	3/27/2020	9/22/2022		
Sidestream NTP	6/12/2018	8/24/2018	3/25/2019	9/12/2018	3/25/2019
Sidestream NTP	3/25/2019	5/3/2019	7/20/2019	7/1/2019	7/20/2019
Sidestream NTP	7/20/2019	12/31/2019	1/3/2020	-	-
Sidestream CC	12/28/2019	8/24/2018	9/25/2021	9/12/2018	7/8/2021
Sidestream CC	-	2/10/2020 ²	-	-	-
Sidestream CC	7/8/2021	3/27/2020	10/3/2022		
Effluent Pumping CC	5/28/2020	10/19/2018 ²	1/15/2021	12/20/2018	1/15/2021
Level 1 BNR CC	-	5/3/2019 ²	-	7/1/2019	-
Level 1 BNR CC	-	8/5/2019 ²	5/14/2020	12/30/2019	5/14/2020
General Covid-19 FM		3/19/2020 ²			

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

III.0

Notice of Violation Status

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

IV.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 completed and certifications accepted.

V.0

Construction Milestone Status

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

Table 3 – Construction NTP Milestones

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

Table 4 – Construction Completion Milestones

Milestone	Agreement Date	Actual/Forecast	% Complete
1 Barnes Avenue – Baldwin	12/31/2019	10/4/2019 A	100%
2 Raw Sewage Pumping Facility	2/27/2022	9/15/2023	0%
3 Sludge Dewatering Facilities	12/15/2018	5/21/2018 A	100%
4 Effluent Screening and Disinfection	10/14/2021	5/22/2023	0%
5 Effluent Tide Pumping Facilities	1/15/2021	5/22/2020	95%
6 Electrical Distribution Phase E1-E3	9/21/2019	5/25/2020	99%
7 Secondary Flood Protection	8/15/2021	12/16/2021	5%
8 Stormwater Pump Stations	3/31/2019	3/28/2019 A	100%
9 Upgrade To 3 Generator Operation	5/19/2019	8/30/2019 A	100%
10 Cedar Dr, Roosevelt et al PS	5/8/2018	1/12/2018 A	100%
11 Wantagh, Newbridge et al PS	4/25/2018	2/12/2018 A	100%
12 Ocean Ave, Mill Rd et al PS	12/5/2018	8/17/2018 A	100%
13 Inwood, Doughty et al PS	7/4/2019	5/13/2019 A	100%
14 Lawrence & Sage Lake PS	8/30/2018	8/13/2018 A	100%
15 East Avenue Ejector Station	2/13/2021	9/22/2022	0%
16 Level 1 BNR	5/14/2020	5/26/2020	95%
17 Sidestream Deammonification	7/8/2021	10/3/2022	5%

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

Project Notes:

1. Barnes Avenue – Baldwin

Substantial completion was granted November 22, 2019 and milestone certification submitted to DEC November 25, 2019.

Progress This Quarter:

- Continued punch list work and project close-out

Expected Progress Next Quarter:

- Continue project close out

2. Raw Sewage Pumping Facility

This project did not meet the original NTP milestone date of May 15, 2019.

Progress This Quarter:

The County continued with the award process.

Expected Progress Next Quarter:

The County will be continuing with the award process with goal of a Q3 2020 NTP.

3. Sludge Dewatering Facilities

This project is nearing final completion.

Progress This Quarter:

- Completed general punch list work.

Expected Progress Next Quarter:

- Project closeout

4. Effluent Screening and Disinfection

This project did not meet the NTP milestone date of 10/5/19.

Progress This Quarter:

Continuing the award process for the construction and construction management contracts.

Expected Progress Next Quarter

The County will be continuing with the award process with goal of a Q3 2020 NTP.

5. Effluent Tide Pumping Facilities

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

Progress This Quarter:

- Progressed the installation of Electrical Conduit, Wires, and Cables in EPF.

- Progressed the installation of Lighting Fixtures and Fire Alarm devices in EPF.
- Progress coating of Structural steel, columns and walls in existing EPF.
- Progressed the installation of Control Panels and Plumbing Equipment at Mezzanine Level.
- Installed Dewatering Pump, Sample Pump, and Sump Pump at Elevation -9.50.
- Progressed the installation of HVAC Ductwork and Heating and Ventilating Equipment in EPF.
- Progressed Conduit Labeling.
- Progressed the installation of Emergency Eyewash, Chlorine Analyzer, Air Compressor & Dryer, and Service Air Piping at Mezzanine Level.

Expected Progress Next Quarter

- Complete Annex building floor coating.
- Complete painting walls and ceiling at Effluent Building.
- Complete the installation of Fire Alarm System & Test.
- Complete the installation of Air Compressor and Dryer at Mezzanine Level.
- Complete the installation of Control Panels & Plumbing Equipment.
- Startup Bubbler panel, & Dewatering Pump Panel.
- Checkout & turnover Antenna System graphic.
- Finish pump platform structural steel, stairs, railings, and grating installation.
- Install Exterior Door & Hardware within EPF Building.
- Install H&V Unit at Mezzanine Floor.
- Progress the installation of HVAC Ductwork & Piping.
- Install Hot Water Heater & Electric Duct Heater.
- Install H&V unit & Control Valve.
- Continue to install Mezzanine Conduit, Wiring, and Light Fixtures.

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 had 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 has continued beyond the milestone date of September 21, 2019, but is now near completion. A milestone modification request was submitted 3/27/20.

Progress This Quarter:

- Completed synchronization of Emergency and Primary Generators.
- Completed approval of MOPO sequencing for all 480V MCC's.
- Completed MOPO for MCC-A1, MCC-A2, MCC-C3, MCC-D3, MCC-D3A to MSS USS-1.
- Completed MOPO for migration of existing S2 switchgear in Operations Bldg. to MSS S1 for S2 (B-side) and continued the same for A side feeder.
- Completed Hi-Pot test on new feeder cables for corresponding MCC's.
- Began MOPO for MCC-C3A (A feeder).
- Completed MOPO for USS-2 to MSS S1.

- Continued work for Change Order P-167 Duct Bank Relocation at USS-2 (backfill, paving).
- Continued wiring for I/O Annunciator Alarm Panel for P-153, MSS.
- Completed programming of alarms and pre-test alarms demonstration for Commissioning Test.
- Began 168-hrs Emergency Generators Commissioning Test.
- Completed site restoration (soil addition and grading), Grid 8.
- Began demolition of existing conduits and duct banks at west road, Grids 4, 3, 2.
- Continued to work on punch list.

Expected Progress Next Quarter:

- Complete Emergency Generators Commissioning test.
- Complete MOPOs for S-2 (A-side), MCC-C3A (A).
- Begin and complete MOPOs for MCC-B3, MCC-C3A (B).
- Complete Change Order P-167 Duct Bank Relocation at USS-2.
- Continue demolition of conduits and duct banks on west road and begin paving.
- Continue remaining site lighting installation at Grid 2.
- Perform training for Suez employee for the Otis elevator.
- Continue to work on punch list.

7. Secondary Flood Protection

Notice to Proceed was granted this quarter behind the milestone date. A milestone modification letter was submitted to DEC 12/31/19 requesting revised milestones based on the current schedule.

Progress This Quarter:

- Started Electrical Point-to-Point Survey.
- Delivery of Material for the Operations Building Drainpipe Replacement.
- Stubbed Up Electrical Conduit Above the Flood Elevation at the Dechlorination Building.

Expected Progress Next Quarter:

- Continue Demo of Sump Pump Wiring and Conduit.
- Continue Electrical Point to Point Surveys.
- Begin Exhaust Fan Demo and Curb Construction.
- Prepare for Tunnel Access Building Demolition.

8. Stormwater Pump Stations

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

Progress This Quarter:

- Continued Demobilizing the Staging Area.
- Continued Removing Interim Pumps from Site.

- Continued to Complete Punch List Items.
- Finished Rubbing and Patching Concrete Piers.

Expected Progress Next Quarter:

- Continue punch list and incomplete work items

9. Upgrade to 3 Simultaneous Generator Operation

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

Progress This Quarter:

- Continued punch list work.

Expected Progress Next Quarter:

- Continue punch list work and close out activities.

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

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

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

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

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

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

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

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

14. Lawrence and Sage Lake Pump Stations

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

15. East Avenue Ejector Station

The construction and construction management services contracts were advertised on March 8, 2019. Bids and proposals were received in April, 2019, and the County was proceeding with the award process to the low bidder. On September 20, 2019, the low bidder withdrew from consideration as they had made a gross error in their bid having omitted the bypass pumping required to execute the work. The County is now proceeding with the award process to the second low bidder. The NTP milestone date of November 23, 2019 will not be met and a modification request was issued to DEC March 27, 2020.

16. Level 1 BNR

The project is currently projected to finish ahead of the milestone date.

Progress This Quarter:

- Placed Aeration Tank No.1 back in-service.
- Continued the installation of the MCP panel and OIT Screen.
- Continued the mechanical rehabilitation in RAS Box No.9 and No.10.
- Continued the installation of the air handling unit.
- Started the operation test for the MCP panel.

Expected Progress Next Quarter:

- Operational test for the MCP panel in progress.
- Continue the mechanical rehabilitation in RAS Box No.9 and No.10.
- Continue the installation of the air handling unit and HVAC Control.
- Conduct training for the MCP Control.
- Punchlist and As-build Record Drawings.

17. Sidestream Deammonification

A milestone modification letter was submitted to DEC 12/31/19 requesting revised milestones based on the current schedule. A force majeure notification was submitted 2/10/20 regarding the unforeseen subsurface conditions encountered in the field.

Progress This Quarter:

- Continued Site layout and test pits.
- Continued underground utility relocation.
- Performed borings for soil testing.

Expected Progress Next Quarter:

- Continue site layout.
- Start mechanical and plumbing work.
- Start sheeting installation.
- Start pile layout / installation.

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

The County has initiated the design phase for the Long Beach WPCP Consolidation. The design of the influent pump station conversion is at the 90% stage and the force main routing obtained permit approvals for the geotechnical investigation from local, State and Federal agencies. The geotechnical field work was executed this quarter subsequently.

The County in continuing the procurement of a consultant to provide a feasibility study for integrating Point Lookout, NY, currently on septic systems, into the Long Beach sewer system.

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

VII.0

Nitrogen Interim Limit Schedule of Compliance

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

Table 5 – Bay Park WPCP Interim Nitrogen Limits

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

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

The BNR O&M Plan was submitted to DEC on the January 8, 2020 milestone. Comments were received from DEC and upon resolution the plan was accepted April 13, 2020.

VIII.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:

A new RFQ was issued by DEC. Qualifications of proposing teams were reviewed and production of the RFP package continued.

Expected Progress Next Quarter:

A shortlist of proposers shall be selected and the Request for Proposals shall be issued. Environmental assessments and community outreach will continue. Note that community outreach and participation may be impacted by the NYS “Pause” due to COVID-19.

Project Milestones:

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

IX.0

Environmental Benefit Projects

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

X.0

Certification of Completed Activities

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

Table 7 – 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	5/1/2019
Stormwater Pump Stations – Construction Completion	3/28/2019	4/3/2019	4/19/2019
Upgrade to 3 Generator Operation – Construction Completion	8/30/2019	9/12/2019	11/7/2019
Barnes Ave-Baldwin	11/22/2019	11/25/2019	2/25/2020

XI.0

Community Relations

No community meetings were held this quarter. A community outreach plan for the Bay Park Conveyance Project (aka Diversion) is currently in development and engagement with municipalities has begun.

XII.0

Attachments

1. Program Master Schedule

XIII.0

Project Glossary

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

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

Vincent Falkowski, PE, PMP, CCM		Deputy Commissioner
Permittee (Per CRF 122.22)		Title
		4/30/2020
Signature		Date Signed