

October 26, 2021

Director, Bureau of Water Compliance  
Attention: Edward Hampston  
New York State Department of Environmental Conservation  
625 Broadway, 4<sup>th</sup> Floor  
Albany, NY 12233-35062

Agreement DEC Index No: CO 1-20170626-244

South Shore Water Reclamation Facility  
**2021 Q3 Quarterly Report**

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Dear Mr. Hampston:

We are submitting herewith our Quarterly Report for the period of July 1, 2021 through September 30, 2021.

Very truly yours,



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

<b>c:</b>	<b>NCDPW</b> <i>Kenneth Arnold</i> <i>Edward Visone</i> <i>Jane Houdek</i> <i>Karen Fay</i> <i>Elisa Picca</i> <i>Chris Vella</i>	<b>Hazen and Sawyer</b> <i>Mark Hanson</i> <i>Paul Saurer</i> <i>Eric Mills</i> <i>Tom Zakrzewski</i>	<b>ARCADIS</b> <i>Peter Glus</i> <i>Greg Bazydola</i> <i>Maryanne Dioquino</i> <i>Khanhtran Do</i>	<b>DEC</b> <i>Anthony Leung</i> <i>Katie French</i> <i>Paul Harding</i> <i>Brian Lee</i> <i>Josh Lin</i> <i>Ryan Waldman</i> <i>Andrew Fera</i> <i>Andrew Fleck</i>
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# DEC Agreement Q3 2021 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 saltwater 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 VII, Paragraphs A-C of the Modified Agreement the DPW hereby submits to the New York State Department of Environmental Conservation (DEC) the Quarterly Report for the period of July 1, 2021 through September 30, 2021.

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

**I.0****Executive Summary**

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The Bay Park Sewage Treatment Facility Agreement (“Agreement”) Index No. CO 1-20170626-244, was entered into by the County of Nassau (“County”) and the New York State Department of Environmental Conservation (“DEC”) and became effective on January 11, 2018. The Agreement was modified by mutual consent in this reporting quarter, having been approved by the Nassau County Legislature and signed by the County. The modification was fully executed by the State on January 12, 2021. This report has been prepared with respect to the Modified Agreement.

Pursuant to Section VII, Paragraph A of the modified Agreement, “The County 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 Modified Agreement during the previous three-month period”. The Modified Agreement requires that this report provide:

1. A list of the County's construction contracts necessary to fulfill the requirements of compliance milestones of this Agreement as such milestones are set forth in Appendices A, B, C, D, E and F. 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 Modified Agreement;
3. Information regarding unresolved delays encountered or anticipated that may affect the future schedule for implementation of the County's obligations under this Modified 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 Modified Agreement.

Additional information is included to provide a comprehensive representation of the County’s efforts towards achieving compliance with the Agreement. This Quarterly Report updates the status and progress of DPW’s compliance with the milestones set forth in the Agreement during the period from July 1, 2021 through September 30, 2021 (“Reporting Quarter”).

COVID-19 work restrictions the County had implemented continued to limit the number of staff at any County facility until said restrictions were lifted July 5, 2021.

## II.0

## Modification Request and Force Majeure Status

The following table lists modification requests made by the County and DEC responses to date. The previous outstanding milestone modification requests have all been addressed by the Agreement modification.

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

Milestone	Agreement Date	Mod request letter date	Revised date requested	DEC Response Date	Modified Milestone Date <sup>1</sup>
General Covid-19 FM	N/A	3/19/2020 <sup>2</sup>	N/A	6/24/2021	N/A

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

**III.0****Design Milestone Status**

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

**Table 2 – Design Completion Milestones**

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

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

**Project Notes:**

All agreement design milestones have been completed and certifications accepted.

## IV.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	2/26/2021	5/3/2021 A
Effluent Screening and Disinfection	10/29/2020	11/4/2020 A
Secondary Flood Protection	12/18/2019	12/18/2019 A
East Avenue Ejector Station	10/29/2020	11/2/2020 A
Sidestream Deammonification	12/31/2019	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	2/15/2024	10/18/2023	10%
3 Sludge Dewatering Facilities	12/15/2018	5/21/2018 A	100%
4 Effluent Screening and Disinfection	8/22/2023	2/8/2023	28%
5 Effluent Tide Pumping Facilities	1/15/2021	5/5/2020 A	100%
6 Electrical Distribution Phase E1-E3	10/23/2020	9/1/2020 A	100%
7 Secondary Flood Protection	6/17/2022	11/11/2021	90%
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	10/31/2022	2/10/2022	60%
16 Level 1 BNR	5/5/2020	4/30/2020 A	100%
17 Sidestream Deammonification	10/3/2022	4/21/2022	88%

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

## **Project Notes:**

### **1. Barnes Avenue – Baldwin**

This project has been completed and milestone certification accepted.

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

#### Progress This Quarter:

- Started demolition of existing roof where tie-beams will be installed.
- Installed threaded rods, dowels and rebar cages inside existing wall cavities for the new columns.
- Installed formwork on the inside and outside of the new concrete columns.
- Installed bracing for formwork and concrete placed in columns.
- Excavated trench for new corridor footing, installed stone base and compacted.
- Installed formwork and rebar for corridor footing.
- Installed bracing for formwork and concrete placed for footing.
- Temporarily re-routed the rheostat control wiring for RSP#5, 4, 3, 2. Rheostat Control Wiring MOPO.
- Extended the temporary stair tower height to bridge over the tie beam.
- Continued demolition of existing roofing for tie-beams and gusset plates.
- Installed eastern wall gusset plate in existing roof +23.00.
- Installed outside face of formwork for roof tie-beams.
- Started cleaning up slag on concrete columns, parging and grinding smooth.
- Started installation of rebar for tie-beams on existing roof.
- Continued submission of RFI's, submittals, and shop drawings subcontractors/vendors for approval.

#### Expected Progress Next Quarter:

- Continue cleaning slag on columns, parging and grinding smooth.
- Install gusset plates in penetrations from existing roof to electrical room.
- Finish installation of tie-beam rebar cages on existing roof.
- Finish inside face of tie-beam formwork on existing roof.
- Install concrete for tie-beams.
- Finish removal of existing roofing membrane.
- Install temporary roofing material on existing electrical building roof for water resiliency.
- Install rebar and formwork for new corridor support column.
- Install concrete for new corridor support column

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

This project has been completed and milestone certification accepted.



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

##### Progress This Quarter:

- Completed the demolition of the concrete pad for the heat recovery unit on the mezzanine level.
- Removed abandoned conduits in the HVAC Room.
- Patched the walls and ceiling in the HVAC Room and on the mezzanine level.
- Continued the installation of HVAC ductwork and supports in the Screening Room.
- Continued preparation and submission of administrative and technical submittals

##### Expected Progress Next Quarter

- Continue the installation of HVAC ductwork and supports in the Screening Room.
- Patch Screening Channel #3 in accordance with the recommendation of the PE inspection.
- Install the Hot Water Unit Heaters in the Screening Room.
- Block up unused HVAC wall opening to match existing conditions.
- Continue preparation and submission of administrative and technical submittals.

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

This project has been completed and milestone certification accepted.

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

All phases have been completed and milestone certification has been submitted and accepted.

#### **7. Secondary Flood Protection**

##### Progress This Quarter:

- Continued installing flood barriers and flood doors.
- Started testing flood doors and barriers.
- Installed flood gates at Fire Protection, Dechlorination and Sludge Control buildings.
- Installed the fire rated door in the Operations Building basement.
- Continued reinstalling electrical equipment at multiple locations.
- Installed exterior lighting at the Fire Protection building.
- Painted water-resistant coating on exterior masonry of buildings.
- Continued to submit Shop Drawings, RFI's and Subcontractor/Vendors for approval.

##### Expected Progress Next Quarter:

- Flood testing of the flood doors barriers and gates.
- Finish painting of exterior masonry of buildings.
- Continue miscellaneous electrical reinstallations.
- Install sump pump gratings.
- Commence close-out activities.

#### **8. Stormwater Pump Stations**

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

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

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

### **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 and accepted.

### **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**

#### Progress This Quarter:

- Continued installation of spiral stairs in the wet well lower mezzanine.
- Continued installation of stairs in the wet well upper mezzanine.
- Continued installation of electrical platform.
- Completed installation of monorail beam in the wet well entry level.
- Started installation of electrical panels at the exterior platform
- Started mobilizing mechanical equipment into the building.
- Started core drills for pipe penetrations.

#### Expected Progress Next Quarter:

- Install the main sewage pumps.
- Install fuel tanks.
- Install concrete slab ceiling in the wet well entry level.

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

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

### **17. Sidestream Deammonification**

#### Progress This Quarter:

- Continued submission of general conditions items, O&Ms and technical submittals.

- Continued site lighting work.
- Continued electric conduit installation on façade of DA & EQ Tanks.
- Continued installation of electric and control panel installations on DA and EQ Tanks, and Sludge Pump building.
- Continued electric conduit and wire installations within the Sludge Dewatering Building and ductbank.
- Continued main feeder installation from Substation to Sludge Dewatering Building.
- Continued HVAC installations within Sludge Dewatering Building.
- Continued Site Restoration, Roadway Curb Installations, asphalt installation, and final grade and seeding.
- Continued DA & EQ tank coating system installations.
- Continued mechanical equipment installation within the DA & EQ Tanks.
- Continued FRP Cover installation on the DA Tank and started on EQ Tank

Expected Progress Next Quarter:

- Continue submission of general conditions items, O&Ms and technical submittals.
- Continue mechanical, plumbing, and electric work within the sludge dewatering building.
- Continue wire installation on DA & EQ Tanks, inside Dewatering building, and ductbanks.
- Continue Sitework and restoration.
- Continue HVAC installations within dewatering building.
- Continue installation of EQ & DA Tank Coating System and punchlist work.
- Continue equipment installation within the DA & EQ Tanks.
- Continue FRP Cover Support Installation within the DA & EQ Tanks.
- Continue wire installation between the dewatering building and DA/EQ tanks.
- Continue site lighting installations.
- Continue painting piping through-out.
- Continue mechanical piping installations and final tie-ins.
- Continue I&C equipment and Control Panel installations.
- Start check-up/start-up of WWW and HVAC equipment.

V.0

## Inter Municipal Agreement

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Paragraph VII.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 as noted in the modified Agreement paragraph VII.F.

## VI.0

## Nitrogen Schedule of Compliance

The milestones for the Nitrogen Upgrades as listed in the Modified Agreement are listed in the following table.

**Table 5 – Bay Park WPCP Nitrogen Milestones**

Description of Work	Agreement Date	Projected/Actual*
Submit an approvable BNR Operation and Maintenance	1/8/2020	1/8/2020
Begin operation of the 6-month start-up period	6/1/2020	6/1/2020
Begin the 12-month performance period	1/1/2021	1/1/2021
End 12-month performance period	12/31/2021	12/31/2021
Submit performance data	4/1/2022	4/1/2022
Submit an approvable updated BNR O&M and Sidestream O&M Plan	6/1/2022	6/1/2022
Begin operation of the 6-month start-up period for updated BNR and Sidestream O&M plan.	11/1/2022	11/1/2022
Begin the 12-month performance period for updated BNR and Sidestream O&M plan.	5/1/2023	5/1/2023
End 12-month performance period for updated BNR and Sidestream O&M plan.	4/31/2024	4/31/2024
Submit performance data and approvable Final BNR and Sidestream O&M Plan.	8/1/2024	8/1/2024

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

The milestones in Table 5 were revised in this reporting quarter according to the modified Agreement.

The BNR O&M Plan was submitted to DEC on the January 8, 2020 milestone. Comments were received from DEC and upon resolution the plan was accepted April 13, 2020. The start-up period was initiated on June 1, 2020 as per the schedule and has continued through the quarter. The startup period concluded in December 2020 and the performance period began January 1, 2021.

Monthly performance reports have been submitted to DEC showing significant nitrogen removal, continuing despite the cold weather necessitating the transition to winter mode operations with increased aeration.

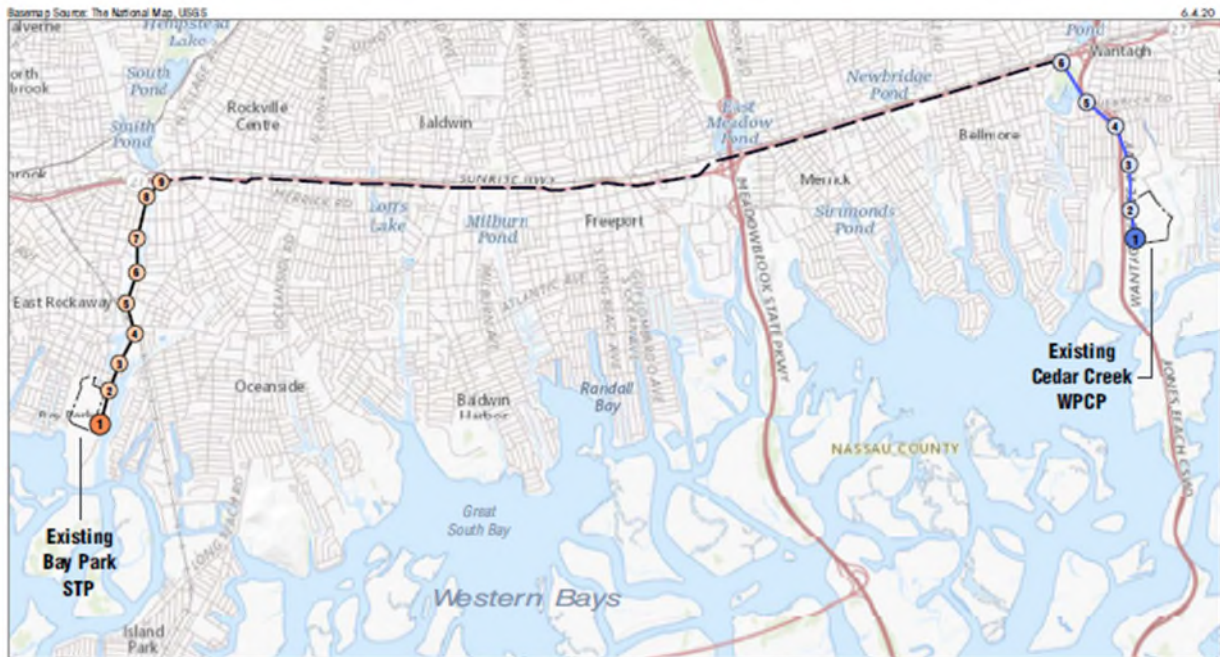
A six-month report was submitted on August 3, 2021 with a summary of performance to date and with a winter operating plan.

## VII.0

# Conveyance Project

## Executive Summary

The Bay Park Conveyance Project (Project) is being delivered by the Department of Environmental Conservation (DEC) Project Team in partnership with the Nassau County Department of Public Works (DPW) via the design-build project delivery method. The Project would divert treated Bay Park STP effluent from the existing outfall in Reynolds Channel to the Cedar Creek WPCP ocean outfall. The diversion of treated water from Bay Park STP to Cedar Creek WPCP would remove between 75 to 90 percent of the nitrogen currently discharged into the Western Bays.



The Project includes: (1) constructing a new dedicated pump station at the Bay Park STP, (2) rehabilitating an existing aqueduct under Sunrise Highway, (3) constructing a new 70 inch diameter force main between the Bay Park STP and the existing aqueduct, (4) constructing a new 70 inch diameter force main between the Cedar Creek WPCP and the existing aqueduct, and (5) constructing a standpipe receiving tank connection at the existing Cedar Creek WPCP pump station.

The new pump station at the Bay Park STP will have a 75 MGD capacity and will be fully mitigated from the 500-year storm surge.

The existing aqueduct is a steel pipe that is to be slip lined with a polymer pipe with the interstitial space filled with grout to maximize protection against leakage.

Construction of the new force mains will use microtunneling technology. Microtunneling is a method of constructing underground tunnels to install pipes, such as sewer mains, using a remotely operated microtunnel boring machine (MTBM). This method avoids the need to excavate long sections of open trenches at the ground surface to lay pipes. The project includes the 14 construction shafts, approximately 30 feet in diameter, at the beginning, end, and at several locations along the force main alignments, establishing staging areas of approximately half an acre around each construction shaft. The tunnel for each new force main would then be drilled between the shafts at depths below current ground surface of approximately 20 to 60 feet.

A steel standpipe is to be constructed at the Cedar Creek WPCP which will serve to protect the force main from transient pressures that could result from power outages. The Cedar Creek pump station is also to be upgraded with new pumps, motors and drives.

The Modified Agreement reflects the project name change from the Effluent Diversion Project to the Conveyance Project. The initial modified milestones for the Conveyance Project are listed in the following table:

**Table 6 – Initial Conveyance Project Milestones**

<b>Description of Work</b>	<b>Agreement Date</b>	<b>Projected / Actual</b>	<b>Milestone Submitted</b>	<b>Milestone Accepted</b>
DEC Conveyance Team Selects Best-Value Proposal	10/26/2020	10/22/2020	2/17/2021	2/17/2021
County/DEC Project Team to submit approvable major and minor milestones in a Baseline Schedule for Design-Build Project Completion, including Mechanical Completion, Substantial Completion, and Final Acceptance	3/26/2021	4/6/2021	4/6/2021	4/13/2021
Repair of the Cedar Creek Outfall Dif-	10/31/2021	10/31/2021		
Notice to Proceed to Construction	2/26/2021	4/4/2021	3/9/2021	3/9/2021
Construction Start Early Works	6/25/2021	6/25/2021		
Commence Diversion of Wastewater from Bay Park to Cedar Creek	10/25/2024	10/25/2024		

In this reporting quarter, three milestones were achieved and accepted, one of which was a new set of milestones that supersede those in Table 6. The revised list of milestones is shown in Table 7 on the following page.

**Table 7 – Conveyance Project Milestones**

<b>Description of Work</b>	<b>No.</b>	<b>Agreement Date</b>	<b>Projected / Actual</b>	<b>Milestone Submitted</b>	<b>Milestone Accepted</b>
Notice to Proceed	1	3/4/2021	3/4/2021	3/9/2021	3/9/2021
BPM Construction Start	2.1	10/1/2021	5/1/2021	5/12/2021	5/12/2021
BPM Design Start	2.2	4/1/2021	4/15/2021	4/16/2021	4/19/2021
BPM Shafts Complete	2.3	5/1/2022	5/1/2022		
BPM Design Complete	2.4	5/1/2022	5/1/2022		
BPM Construction End	2.5	12/30/2023	12/30/2023		
CCM Construction Start	3.1	12/1/2022	12/1/2022		
CCM Design Start	3.2	7/1/2021	6/29/2021	6/29/2021	7/2/2021
CCM Shafts Complete	3.3	6/1/2022	6/1/2022		
CCM Design Complete	3.4	9/1/2022	9/1/2022		
CCM Construction End	3.5	12/30/2023	12/30/2023		
BPEPS Construction Start	4.1	5/1/2021	5/1/2021	5/12/2021	5/12/2021
BPEPS Design Start	4.2	4/1/2021	4/15/2021	4/16/2021	4/19/2021
BPEPS Design Completion	4.3	10/1/2022	10/1/2022		
BPEPS Construction End	4.4	12/30/2023	12/30/2023		
SHA Rehabilitation Construction Start	5.1	10/1/2021	10/1/2021	9/28/2021	9/29/2021
SHA Rehabilitation Design Start	5.2	4/1/2021	4/15/2021	4/16/2021	4/19/2021
SHA Rehabilitation Design Complete	5.3	12/30/2022	12/30/2022		
SHA Rehabilitation Construction End	5.4	12/30/2023	12/30/2023		
CCEPS/RS Construction Start	6.1	8/1/2022	8/1/2022		
CCEPS/RS Design Start	6.2	8/1/2021	6/29/2021	6/29/2021	7/2/2021
Cedar Creek Outfall Repair	6.3	12/1/2021	12/1/2021		
CCEPS/RS Design Completion	6.4	10/1/2022	10/1/2022		
CCEPS/RS Construction End	6.5	12/30/2023	12/30/2023		
Mechanical Completion	7	12/30/2024	12/30/2024		
Substantial Completion	8	7/30/2024	7/30/2024		
Final Acceptance	9	11/30/2024	11/30/2024		

BPM: Bay Park Microtunnel  
 CCM: Cedar Creek Microtunnel  
 BPEPS: Bay Park Effluent Pump Station  
 SHA: Sunrise Highway Aqueduct  
 CCEPS/RS: Cedar Creek Effluent Pump Station/Receiving Station



## **Progress This Quarter:**

### **Bay Park Effluent Diversion Pump Station:**

- Received and performed detailed quality and compliance reviews for numerous packages at varying levels of design, including: Bay Park Diversion Structure Support of Excavation; Bay Park Wet Well Support of Excavation; Bay Park Wet Well Liner and Internal Structures; Bay Park Near Surface Structures; Bay Park Pump Early Work Design; and Bay Park Hydraulic Modeling. Received two (2) RFCD documents.
- Reviewed and processed numerous construction submittals/work plans for various aspects of the Bay Park Pump Station, relative to Bay Park Wet Well, Bay Park Diversion Structure secant piles and jet grout installation layouts, Support of Excavation plans, and concrete mix submittals for temporary and permanent works.
- Installation of Bay Park Shaft BP-1 secant piles and jet grout invert; initiation of Bay Park Shaft BP-1 jet grout test program; installation of Bay Park Wet Well secant piles; and installation of Bay Park Diversion Structure guide walls and partial installation of secant piles.

### **Bay Park Microtunnel:**

- Received and performed detailed quality and compliance reviews for numerous packages at varying levels of design including: Bay Park Microtunnel Drives 2-1, 2-3, 3-4, 5-4, 5-7, 8-7, and 8-9; Bay Park Shafts 2, 3, 4, 5, 7, 8, and 9; and Bay Park Shafts 4, 7, 8, and 9 Support of Excavation. Received one (1) RFCD document.
- Reviewed and processed numerous work plans and construction submittals, including but not limited to, SWPPPs, Jet Grout Test Program, mix designs for permanent piles, Support of Excavation ring beam, CSM trial test program, and flowcrete shop drawings.
- Installation of Bay Park Shaft BP-2 jet grout invert, permeation grout invert, and Shaft BP-2 soil mix; mobilization at Bay Park Shaft BP-3 and instrumentation and fence site set-up; initiation of Bay Park Shaft BP-5 site set-up and site demolition (i.e. gazebo and light poles); and installation of Bay Park Shaft BP-9 site fencing.

### **Sunrise Highway Sliplining:**

- Received and performed detailed quality and compliance reviews for numerous packages at varying levels of design, including: Sunrise Highway Slipline and Work Pits A, I, K, L, M, N, O, P, Q, R, S, T, U, V, and W; and Sunrise Highway Slipline and Work Pits A, B, C, D, E, F, FF, G, GG, H, I, K, L, M, N, O, P, Q, R, S, T, and W Utility Protection and Relocation.
- Reviewed/processed a SWPPP submittal for sliplining work at Work Pits O, P, and Q and FRP Lined RCP Pipe for microtunneling.
- Survey access openings at Sunrise Highway Pits Q, S, T, U, V, and W; removal of valves and chamber wall demolition; installation of Sunrise Highway Work Pit P sheet piles; and performed aqueduct survey/investigation from Sunrise Highway at Pits O to W.

**Cedar Creek Microtunnel:**

- Received and performed detailed quality and compliance reviews for numerous packages at varying levels of design, including: Cedar Creek Microtunnel Drives 2-1, 2-3, 4-3, 4-5, and 5-6; Cedar Creek Shafts 1, 2, 3, 4, 5, and 6; Cedar Creek Shafts 1, 2, 3, 4, 5, and 6 Support of Excavation; and Cedar Creek Shafts 1, 2, and 3 Utility Protection and Relocation. Received one (1) RFCD document.
- Received and reviewed a SWPPP submittal related to the Cedar Creek Shafts CC-2 and CC-3 Support of Excavation and Shafts CC-1, CC-2, and CC-3 Utility Protection and Relocation design package.
- Relocation of water utility at Cedar Creek Shaft CC-1; and initiation of Cedar Creek Shaft CC-2 mobilization and site set-up.

**Cedar Creek Effluent Pump Station/Receiving Station:**

- Received and performed detailed quality and compliance reviews for several packages at 60% level of design, including: Cedar Creek Pump Station Upgrades; and Cedar Creek Receiving Station and Wet Tap.
- Reviewed and processed the "Draft" Condition Assessment Report for 84" Outfall Sewer Route B, located at Cedar Creek.

**Expected Progress Next Quarter:****Bay Park Effluent Diversion Pump Station:**

- Anticipate receipt of packages at varying levels of design, including: Bay Park Wet Well Liner and Internal Structures; Bay Park Near Surface Structures; Bay Park Pump Station Building; and Bay Park Hydraulic Modeling. Anticipate receipt of two (2) RFCD documents.
- Anticipate installation of Bay Park Wet Well jet grout invert, excavation of Wet Well, and installation of Wet Well base slab and shotcrete walls; excavation of Bay Park Shaft BP-1 and installation of Shaft BP-1 invert slab and walls; and completion of Bay Park Diversion Structure secant piles installation and installation of jet grout at secant pile ends.

**Bay Park Microtunnel:**

- Anticipate receipt of packages at varying levels of design, including: Bay Park Microtunnel Drives 2-1, 2-3, 3-4, 5-4, 5-7, 8-7, and 8-9; Bay Park Shafts 2, 3, 4, 5, 7, 8, and 9; and Bay Park Shafts 4, 7, 8, and 9 Support of Excavation. Anticipate receipt of three (3) RFCD documents.
- Anticipate excavation of Bay Park Shaft BP-2, installation of concrete liner, and mobilization of MTBM; installation of Bay Park Shaft BP-3 jet grout invert and Shaft BP-3 soil mix, excavation of Shaft BP-3, and installation of base slab; initiation of Bay Park Shaft BP-4 site setup and installation of Shaft BP-4 CSM panels; installation of Bay Park Shaft BP-5 soil mix; installation of Bay Park Shaft BP-7 CSM panels; excavation of Bay Park Shaft BP-8 and installation of Shaft BP-8 CSM panels; and installation of Bay Park Shaft BP-9 CSM panels.

Sunrise Highway Sliplining:

- Anticipate receipt of packages at varying levels of design, including: Sunrise Highway Slipline and Pits A, FF, G, GG, H, I, K, L, M, N, O, P, Q, R, S, T, U, V, and W; and Sunrise Highway Slipline and Work Pits A, B, C, D, E, F, FF, G, GG, H, I, K, L, M, N, O, P, Q, R, S, T, and W Utility Protection and Relocation. Anticipate receipt of five (5) RFCD documents.
- Anticipate installation of Sunrise Highway Work Pits A, B, C, D, E, F, FF, G, GG, H, I, K, L, M, and N; performance of aqueduct survey/investigation from Sunrise Highway Work Pits A to N; Survey access openings at Sunrise Highway Pits O and R Support of Excavation systems, excavate Work Pits O and R, and install pipe; excavate Sunrise Highway Work Pit P; install pipe from Sunrise Highway Work Pits O to P; and install Sunrise Highway Work Pit P Support of Excavation system and clean the invert of the aqueduct from Work Pit Q to Work Pit P.

Cedar Creek Microtunnel:

- Anticipate receipt of packages at varying levels of design, including: Cedar Creek Microtunnel Drives 2-1, 2-3, 4-3, 4-5, and 5-6; Cedar Creek Shafts 1, 2, 3, 4, 5, and 6; Cedar Creek Shafts 1, 4, 5, and 6 Support of Excavation. Anticipate receipt of two (2) RFCD documents.
- Anticipate completion of water utility relocation at Cedar Creek Shaft CC-1 and initiate relocation of electric utility at Shaft CC-1; relocate water utility and electric utility at Cedar Creek Shaft CC-2 and install Shaft CC-2 guide walls and secant piles; initiate Cedar Creek Shaft CC-3 mobilization and site setup, relocate storm sewer utility at Shaft CC-3, and install Shaft CC-3 guide walls and secant piles.

Cedar Creek Effluent Pump Station/Receiving Station:

- Anticipate receipt of packages at varying levels of design, including Cedar Creek Pump Station Upgrades; Cedar Creek Receiving Station and Wet Tap; and Cedar Creek Existing 84" Outfall Air Valves and Wet Vault Tap.
- No construction work planned for Q4 2021.

VIII.0

# Wet Weather Flow Reduction

The Modified Agreement has added the following compliance schedule for Wet Weather Flow Reduction, as listed in the following table.

**Table 8 – Wet Weather Flow Reduction Milestones**

Description of Work	Agreement Date
1. Capacity, Management, Operation and Maintenance (CMOM) Program a. Submit CMOM plan for Bay Park STP and Cedar Creek WPCP b. Begin implementing the approved CMOM plans	6/01/2022  Upon DEC Approval
2. CMOM Program – Submit Operating Plan for Bay Park Conveyance System	60% Design + 6 Months
3. Preliminary Engineering Report To be included in the 60% Design Report	
4. Modified SPDES Application Request	10/1/2024
5. Inflow and Infiltration (I/I) Study Work Plan a. If required after item 2 obligations are complete, submit I/I study work plans for Bay Park STP and Cedar Creek WPCP b. Submit Report of I/I study findings	60% Design + 6 Months  Within 9 months of work plan approval or per approved schedule

The County has issued an RFP to their on-call designers to procure the planning and design services for these deliverables and will provide an update in the next quarter.

**IX.0**

## **Environmental Benefit Projects**

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The formal proposal for the Cedar Creek Kayak Launch was submitted to DEC on August 9, 2021 and was approved on September 24, 2021. The project is currently under review with the DEC Region 1 permitting group and approval is anticipated in the next quarter.

## X.0

## Certification of Completed Activities

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

**Table 9 – Completed Activities**

Milestone	Date Completed	Certification Submitted	Certification Accepted
Effluent Screening and Disinfection – Design	1/5/2018	7/5/2018	9/13/2018
East Avenue Ejector Station - Design	3/2/2018	7/5/2018	9/13/2018
Cedar Dr, Roosevelt et al PS - CC	1/12/2018	7/5/2018	11/27/2018
Wantagh, Newbridge et al PS – CC	2/12/2018	7/5/2018	11/27/2018
Sage Lake and Lawrence PS – CC	8/13/2018	8/24/2018	11/27/2018
Ocean Ave, Mill Road et al PS – CC	8/17/2018	9/19/2018	11/27/2018
Sludge Dewatering Facilities – CC	10/12/2018	10/24/2018	1/4/2019
Inwood, Doughty et al PS – CC	2/19/2019	2/28/2019	5/1/2019
Stormwater Pump Stations – CC	3/28/2019	4/3/2019	4/19/2019
Upgrade to 3 Generator Operation – CC	8/30/2019	9/12/2019	11/7/2019
Barnes Ave-Baldwin – CC	11/22/2019	11/25/2019	2/25/2020
Electrical Distribution Upgrades – CC	9/1/2020	10/23/2020	10/30/2020
Secondary Flood Protection – NTP	12/18/19	12/31/19	12/31/19
Sidestream Deammonification – NTP	12/31/19	12/31/19	12/31/19
East Avenue PS NTP	10/29/20	10/29/20	11/2/2020
Effluent Screening and Disinfection NTP	10/29/20	10/29/20	11/2/2020
Level 1 BNR – CC	4/30/20	5/5/20	10/30/2020
Effluent Pumping Facility – CC	5/5/20	6/10/20	10/30/2020
Submit Approvable BNR O&M Plan	1/8/2020	1/8/2020	4/13/2020
Begin operation of the 6-month start-up period	6/1/2020	7/22/2020	-
Begin performance period BNR	1/1/2021	1/13/2021	1/13/2021
Raw Sewage Pumping Facility NTP	5/3/2021	4/30/2021	5/5/2021

## XI.0

# Community Relations

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From July through September 2021, the State, County, and Design-Builder engaged in various community engagement initiatives to disseminate Conveyance Project information.

On July 20, the State, County, and Design-Builder held a second general public information session (since NTP) over Zoom to update communities on the Project's construction progress, reinforce its mission, and to answer any questions from participants.

Meetings with local elected officials and first responders took place on July 27 and September 28, where government officials and fire marshals were debriefed on the Project's construction progress, safety measures and traffic control procedures. The invited entities also had the opportunity to ask questions directly to the Project team regarding any concerns.

Meetings with stakeholders including chambers of commerce, and local civic associations, and homeowners' associations also took place during this quarter, on July 28 and September 29. During these meetings, local stakeholders were invited to listen in on the Project's updates and raise any concerns directly to the Project team.

Nassau County also included the Project on its Safe Driving Campaign event on September 8 to raise awareness surrounding road safety and to combat aggressive driving. The Project's commitment was among initiatives highlighted in the County's program.

The State, County and Design-Builder crafted the Bay Park Conveyance Project Microtunnel Boring Machine (MTBM) Naming Contest for schools along the Project corridor. The contest was publicly announced online on September 17. Students from grades 6 through 8 are invited to name the Project's two MTBMs. Final name selection will take place in Q4 2021.

On September 25, the Design-Builder attended the Bellmore Street Festival to promote the Project. Project brochures/flyers, pens, and magnets were distributed to local residents at the Festival. Local residents had the opportunity to directly ask questions to the Design-Builder.

The Project team continues to respond to public inquiries, release monthly project construction lookaheads, engage in outreach to businesses and residents via canvassing, local events, social media, e-blasts, and maintains a project website.

2021 Q3 Outreach Summary:

Public Information Sessions:

- Quarterly meeting to update general public of project progress and field questions held 7/20.

Monthly recurring meetings:

- First Responders and Elected Officials held 7/27 and 9/28
- Bay Park Stakeholder, Chambers of Commerce, and Civics held 7/28 and 9/29
- Nassau County Safe Driving Campaign held 9/8
- Bay Park Conveyance Project Microtunnel Boring Machine Contest publicly announced on 9/17.



**XII.0**

**Attachments**

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1. Program Master Schedule

Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013				2014				2015				2016				2017				2018				2019				2020				2021				2022				2023				2024				2025				2026			
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q												

Bay Park Master Schedule 210930																																																						
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 Offline / Plant Power on Huse 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 / Advise 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 / Advise - 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 / Advise 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 / Advise - 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 / Advise 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 / Advise 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																																																
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																																																						

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













Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Design Process</b>																			
Finalize Technical Memorandum - Pump Station 3	140	0	12-Aug-13 A	22-Nov-13 A	100	█													
Preliminary Design - Pump Station 3	67	0	23-Nov-13 A	28-Jan-14 A	100	█													
RFP / Advertise Final Design - Pump Station 3	30	0	31-Jan-14 A	28-Feb-14 A	100		█												
Award / NTP Final Design - Pump Station 3	90	0	01-Mar-14 A	23-Sep-14 A	100		█												
Final Design - Pump Station 3	90	0	23-Sep-14 A	13-Apr-15 A	100			█											
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Pump Station 3	7	0	14-Apr-15 A	30-Apr-15 A	100														
Bid / Advertise - Pump Station 3	29	0	01-May-15 A	29-May-15 A	100														
Bid Opening - Pump Station 3	1	0	02-Jun-15 A	02-Jun-15 A	100														
Award / NTP - Pump Station 3	90	0	03-Jun-15 A	03-Mar-16 A	100														
Construction - Pump Station 3	540	0	03-Mar-16 A	12-Feb-18 A	100														
<b>S3P311-02M - PS2 &amp; PS3 Construction Management</b>																			
<b>CM Contract</b>																			
RFP / Advertise CM Services - PS2 & PS3	29	0	03-Oct-14 A	31-Oct-14 A	100														
Award / NTP CM Services - PS2 & PS3	90	0	01-Nov-14 A	03-Mar-16 A	100														
<b>S3P311-04G - Felix, Fox, Northern &amp; Grand</b>																			
<b>Design Process</b>																			
Finalize Technical Memorandum - Pump Station 4	140	0	12-Aug-13 A	22-Nov-13 A	100	█													
Preliminary Design - Pump Station 4	67	0	23-Dec-13 A	27-Feb-14 A	100	█													
RFP / Advertise Final Design - Pump Station 4	30	0	28-Feb-14 A	28-Mar-14 A	100		█												
Award / NTP Final Design - Pump Station 4	90	0	30-Mar-14 A	17-Sep-14 A	100		█												
Final Design - Pump Station 4	90	0	17-Sep-14 A	13-Mar-15 A	100			█											
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Pump Station 4	7	0	13-Mar-15 A	19-Mar-15 A	100														
Bid / Advertise - Pump Station 4	29	0	20-Mar-15 A	17-Apr-15 A	100														
Bid Opening - Pump Station 4	1	0	21-Apr-15 A	21-Apr-15 A	100														
Award / NTP - Pump Station 4	90	0	22-Apr-15 A	15-Nov-15 A	100														
Construction - Pump Station 4	420	0	16-Nov-15 A	29-Aug-17 A	100														
<b>S3P311-05G - Millar, Mott, Long Beach, Royal &amp; Lidb</b>																			
<b>Design Process</b>																			
Finalize Technical Memorandum - Pump Station 5	140	0	12-Aug-13 A	22-Nov-13 A	100	█													
Preliminary Design - Pump Station 5	67	0	23-Jan-14 A	27-Mar-14 A	100	█													
RFP / Advertise Final Design - Pump Station 5	30	0	28-Mar-14 A	25-Apr-14 A	100		█												
Award / NTP Final Design - Pump Station 5	94	0	26-Apr-14 A	01-Dec-14 A	100		█												
Final Design - Pump Station 5	90	0	01-Dec-14 A	01-May-15 A	100			█											
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Pump Station 5	7	0	02-May-15 A	21-May-15 A	100														
Bid / Advertise - Pump Station 5	29	0	22-May-15 A	19-Jun-15 A	100														
Bid Opening - Pump Station 5	1	0	23-Jun-15 A	23-Jun-15 A	100														
Award / NTP - Pump Station 5	90	0	24-Jun-15 A	15-Nov-15 A	100														
Construction - Pump Station 5	540	0	16-Nov-15 A	29-Aug-17 A	100														
<b>S3P311-04M - PS4 &amp; PS5 Construction Management</b>																			
<b>CM Contract</b>																			
RFP / Advertise CM Services - PS4 & PS5	29	0	07-Nov-14 A	05-Jan-15 A	100														
Award / NTP CM Services - PS4 & PS5	90	0	06-Jan-15 A	16-Nov-15 A	100														
<b>S3P311-06G - Ocean, Mill, Woodmere &amp; Longacre</b>																			
<b>Design Process</b>																			
Finalize Technical Memorandum - Pump Station 6	140	0	12-Aug-13 A	22-Nov-13 A	100	█													
Preliminary Design - Pump Station 6	67	0	23-Feb-14 A	25-Apr-14 A	100	█													
RFP / Advertise Final Design - Pump Station 6	29	0	09-May-14 A	30-May-14 A	100		█												
Award / NTP Final Design - Pump Station 6	90	0	31-May-14 A	15-Apr-15 A	100		█												
Final Design - Pump Station 6	90	0	15-Apr-15 A	17-Sep-15 A	100			█											
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Pump Station 6	7	0	18-Sep-15 A	24-Sep-15 A	100														
Bid / Advertise - Pump Station 6	29	0	25-Sep-15 A	23-Oct-15 A	100														
Bid Opening - Pump Station 6	1	0	27-Oct-15 A	27-Oct-15 A	100														
Award / NTP - Pump Station 6	90	0	28-Oct-15 A	15-Mar-17 A	100														
Construction - Pump Station 6	550	0	15-Mar-17 A	17-Aug-18 A	100														

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



Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>S3P311-07G - Inwood, Doughty, Bayview &amp; Roslyn</b>																			
<b>Design Process</b>																			
Finalize Technical Memorandum - Pump Station 7	140	0	12-Aug-13 A	22-Nov-13 A	100														
Preliminary Design - Pump Station 7	67	0	23-Mar-14 A	28-May-14 A	100														
RFP / Advertise Final Design - Pump Station 7	29	0	30-May-14 A	27-Jun-14 A	100														
Award / NTP Final Design - Pump Station 7	90	0	28-Jun-14 A	13-May-15 A	100														
Final Design - Pump Station 7	90	0	13-May-15 A	16-Nov-15 A	100														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Pump Station 7	7	0	16-Nov-15 A	19-Nov-15 A	100														
Bid / Advertise - Pump Station 7	29	0	20-Nov-15 A	18-Dec-15 A	100														
Bid Opening - Pump Station 7	1	0	22-Dec-15 A	22-Dec-15 A	100														
Award / NTP - Pump Station 7	90	0	23-Dec-15 A	15-Mar-17 A	100														
Construction - Pump Station 7	540	0	15-Mar-17 A	13-May-19 A	100														
<b>S3P311-06M - PS6 &amp; PS7 Construction Management</b>																			
<b>CM Contract</b>																			
RFP / Advertise CM Services - PS6, PS7 & PS8	29	0	22-May-15 A	19-Jun-15 A	100														
Award / NTP CM Services - PS6, PS7 & PS8	90	0	20-Jun-15 A	15-Mar-17 A	100														
<b>S3P311-08G - East Avenue</b>																			
<b>CM Contract</b>																			
RFP / Advertise CM Services - East Avenue Pump Station	29	0	08-Mar-19 A	05-Apr-19 A	100														
Award / NTP CM Services - East Avenue Pump Station	180	0	06-Apr-19 A	27-Oct-20 A	100														
<b>Design Process</b>																			
Prepare Flow Study & Technical Memorandum - Pump Station 8	27	0	18-Dec-15 A	14-Jul-16 A	100														
RFP / Advertise - Pump Station 8	29	0	15-Jul-16 A	12-Aug-16 A	100														
Award / NTP Final Design - Pump Station 8	90	0	13-Aug-16 A	29-Mar-17 A	100														
Final Design - East Avenue Pump Station	270	0	29-Mar-17 A	23-Dec-17 A	100														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - East Avenue Pump Station	7	0	24-Dec-17 A	07-Mar-19 A	100														
Bid / Advertise - East Avenue Pump Station	29	0	08-Mar-19 A	05-Apr-19 A	100														
Bid Opening - East Avenue Pump Station	1	0	09-Apr-19 A	09-Apr-19 A	100														
Award / NTP - East Avenue Pump Station	180	0	09-Apr-19 A	02-Nov-20 A	100														
Construction - East Avenue Pump Station	540	179	02-Nov-20 A	28-Mar-22*	67														
<b>S3P311-09G - Hempstead Wastewater Pumping Station</b>																			
<b>Design Process</b>																			
RFP / Advertise Final Design - Hempstead Wastewater Pumping Station	29	0	22-Nov-13 A	20-Dec-13 A	100														
Award / NTP Final Design - Hempstead Wastewater Pumping Station	90	0	21-Dec-13 A	29-May-14 A	100														
Final Design - Hempstead Wastewater Pumping Station	185	0	18-Jun-14 A	24-Jun-15 A	100														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Hempstead Wastewater Pumping Station	7	0	25-Jun-15 A	30-Jun-15 A	100														
Bid / Advertise - Hempstead Wastewater Pumping Station	29	0	03-Jul-15 A	14-Aug-15 A	100														
Bid Opening - Hempstead Wastewater Pumping Station	1	0	18-Aug-15 A	18-Aug-15 A	100														
Award / NTP - Hempstead Wastewater Pumping Station	90	0	19-Aug-15 A	25-Apr-16 A	100														
Construction - Hempstead Wastewater Pumping Station	460	0	25-Apr-16 A	22-Nov-19 A	100														
<b>S3P311-09S - Hempstead Wastewater Force Main</b>																			
<b>Design Process</b>																			
RFP / Advertise Final Design - Hempstead Wastewater Force Main	29	0	22-Nov-13 A	20-Dec-13 A	100														
Award / NTP Final Design - Hempstead Wastewater Force Main	90	0	21-Dec-13 A	29-May-14 A	100														
Final Design - Hempstead Wastewater Force Main	185	0	18-Jun-14 A	24-Jun-15 A	100														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Hempstead Wastewater Force Main	7	0	25-Jun-15 A	30-Jun-15 A	100														
Bid / Advertise - Hempstead Wastewater Force Main	29	0	03-Jul-15 A	14-Aug-15 A	100														
Bid Opening - Hempstead Wastewater Force Main	1	0	18-Aug-15 A	18-Aug-15 A	100														
Award / NTP - Hempstead Wastewater Force Main	90	0	19-Aug-15 A	25-Apr-16 A	100														
Construction - Hempstead Wastewater Force Main	450	0	25-Apr-16 A	01-May-19 A	100														
<b>S3P311-09M - Hempstead Wastewater Pumping Station &amp; Force Main CM</b>																			
<b>CM Contract</b>																			
RFP / Advertise CM Services - Hempstead Wastewater Pump Sta & FM	29	0	17-Oct-14 A	14-Nov-14 A	100														
Award / NTP CM Services - Hempstead Wastewater Pump Sta & FM	90	0	15-Nov-14 A	01-Feb-16 A	100														
<b>S3P311-10G - Lawrence PS (STP) &amp; Sage Lake PS</b>																			

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



Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>CM Contract</b>																				
RFP / Advrtise CM Services - Lawrence STP & Sage Lake PS	28	0	25-Jan-16 A	22-Feb-16 A	100															
Award / NTP CM Services - Lawrence STP & Sage Lake PS	90	0	23-Feb-16 A	22-Mar-17 A	100															
<b>Design Process</b>																				
Preliminary Design - Lawrence STP & Sage Lake PS	75	0	02-Jun-14 A	12-Sep-14 A	100															
RFP / Advrtise Final Design - Lawrence STP & Sage Lake PS	29	0	12-Sep-14 A	10-Oct-14 A	100															
Award / NTP Final Design - Lawrence STP & Sage Lake PS	61	0	11-Oct-14 A	15-Sep-15 A	100															
Final Design - Lawrence STP & Sage Lake PS	180	0	15-Sep-15 A	08-Mar-16 A	100															
<b>Bid / Construction</b>																				
County Prepare Bid for Advrtisement - Lawrence STP & Sage Lake PS	7	0	09-Apr-16 A	14-Apr-16 A	100															
Bid / Advrtise - Lawrence STP & Sage Lake PS	29	0	15-Apr-16 A	13-May-16 A	100															
Bid Opening - Lawrence STP & Sage Lake PS	1	0	17-May-16 A	17-May-16 A	100															
Award / NTP - Lawrence STP & Sage Lake PS	90	0	18-May-16 A	22-Mar-17 A	100															
Construction - Lawrence STP & Sage Lake PS	550	0	22-Mar-17 A	13-Aug-18 A	100															
<b>S3P311-11G - Roslyn Village, Morgan Park &amp; Shore Road</b>																				
<b>CM Contract</b>																				
RFP / Advrtise CM Services - Roslyn Village, Morgan Park & Shore Rd	47	0	05-Oct-18 A	02-Nov-18 A	100															
Award / NTP CM Services - Roslyn Village, Morgan Park & Shore Rd	180	0	03-Nov-18 A	01-Dec-20 A	100															
<b>Design Process</b>																				
Preliminary Design - Roslyn Village, Morgan Park & Shore Rd	75	0	01-Mar-16 A	16-Jun-16 A	100															
RFP / Advrtise Final Design - Roslyn Village, Morgan Park & Shore Rd	29	0	17-Jun-16 A	15-Jul-16 A	100															
Award / NTP Final Design - Roslyn Village, Morgan Park & Shore Rd	60	0	16-Jul-16 A	02-Feb-17 A	100															
Final Design - Roslyn Village, Morgan Park & Shore Rd	154	0	02-Feb-17 A	02-Aug-17 A	100															
<b>Bid / Construction</b>																				
County Prepare Bid for Advrtisement - Roslyn Village, Morgan Park & Shore	7	0	13-Oct-17 A	09-Nov-17 A	100															
Bid / Advrtise - 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	0	13-Dec-17 A	01-Dec-20 A	100															
Construction - Roslyn Village, Morgan Park & Shore Rd	365	217	01-Dec-20 A	05-May-22*	41															
<b>S80019-03GR - Cedar Point Lake (Doxey Brook) Pump Station</b>																				
<b>CM Contract</b>																				
RFP / Advrtise 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															
<b>Design Process</b>																				
Final Design - Cedar Point Lake PS	180	0	10-Feb-16 A	28-Oct-16 A	100															
<b>Bid / Construction</b>																				
County Prepare Bid for Advrtisement - Cedar Point Lake PS	7	0	29-Oct-16 A	01-Dec-16 A	100															
Bid / Advrtise - 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	0	03-Jan-18 A	20-Dec-19 A	100															
<b>Nitrogen Reduction Projects</b>																				
<b>S35123-L38G - Sidestream Deammonification</b>																				
<b>CM Contract</b>																				
RFP / Advrtise CM Services - Sidestream Centrate Treatment	29	0	28-Jul-17 A	25-Aug-17 A	100															
Award / NTP CM Services - Sidestream Centrate Treatment	90	0	26-Aug-17 A	16-Dec-19 A	100															
<b>RFP Process</b>																				
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															
<b>Design Process</b>																				
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															
<b>Bid / Construction</b>																				
County Prepare Bid for Advrtisement - Sidestream Centrate Treatment	17	0	01-Nov-17 A	16-Nov-17 A	100															
Bid / Advrtise - 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															

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






## XIII.0

## Project Glossary

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

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

Vincent Falkowski, PE, PMP, CCM		Deputy Commissioner
Permittee (Per CRF 122.22)		Title
		10/26/2021
Signature		Date Signed