

May 6, 2021

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
2021 Q1 Quarterly Report - Revised

Dear Mr. Hampston:

We are submitting herewith our Revised Quarterly Report for the period of January 1, 2021 through March 31, 2021. The comments in DEC's May 4, 2021 letter have been addressed within,

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> <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> <i>Khanhtran Do</i>	DEC <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>
-----------	---	---	--	--

DEC Agreement Q1 2021 Report



TABLE OF CONTENTS

I.0 Executive Summary	3
II.0 Modification Request and Force Majeure Status	4
III.0 Design Milestone Status.....	5
IV.0 Construction Milestone Status	6
V.0 Inter Municipal Agreement	11
VI.0 Nitrogen Schedule of Compliance	12
VII.0 Conveyance Project	13
VIII.0 Wet Weather Flow Reduction.....	17
IX.0 Environmental Benefit Projects	18
X.0 Certification of Completed Activities	19
XI.0 Community Relations	20
XII.0 Attachments	21
XIII.0 Project 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 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 January 1, 2021 through March 31, 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**

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 January 1, 2021 through March 31, 2021 (“Reporting Quarter”).

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

II.0

Modification Request and Force Majeure Status

The following table lists modification requests made by the County and DEC responses to date. 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 ¹
General Covid-19 FM		3/19/2020 ²			

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 Bold denotes current date, italic superseded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

III.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 XI.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
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	0%
3 Sludge Dewatering Facilities	12/15/2018	5/21/2018 A	100%
4 Effluent Screening and Disinfection	8/22/2023	12/9/2022	18%
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	10/12/2021	64%
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	3/4/2022	30%
16 Level 1 BNR	5/5/2020	4/30/2020 A	100%
17 Sidestream Deammonification	10/3/2022	3/18/2022	63%

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

Project Notes:

1. Barnes Avenue – Baldwin

This project has been completed and milestone certification accepted.

2. Raw Sewage Pumping Facility

Progress This Quarter:

The County continued with the award process with the second low bidder. The project was approved by the legislature, Comptroller's Office and Legislative Affairs Office. Signature and registration are to follow and then NTP will be issued.

Expected Progress Next Quarter:

The contract has been executed and NTP shall be issued May 3, 2021.

3. Sludge Dewatering Facilities

This project has been completed and milestone certification accepted.

4. Effluent Screening and Disinfection

Progress This Quarter:

- Installed stop logs in Screening Channel No. 2.
- Completed the removal of Effluent Screening No. 2.
- Completed the removal of spray water pump Nos. 2 and 4 concrete pads.
- Continued painting interior block walls and ceiling in the Screen Room.
- Continued the installation of PVC coated rigid galvanized steel electrical conduits.
- Started the demolition of the inlet butterfly valve in Screen Channel No 2.
- Continued preparation and submission of administrative and technical submittals.

Expected Progress Next Quarter

- Repair overhead cranes.
- Continue painting interior block walls and ceiling in the Screening Room.
- Continue the installation of PVC coated rigid galvanized steel electrical conduits.
- Complete the demolition of butterfly valves in Screen Channel No. 2.
- Continued 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

Phases E1 and E2 were completed 10/19/2016 and 9/29/2017, respectively, and substantial completion for Phase E3 was achieved 9/1/2020. Certification for the milestone was submitted 10/23/2020.

Progress This Quarter:

- Continued to process Contractor's Submittals including As-Built Drawings and O&M Manuals.
- Continued to work on Change Order.
- Continued Spare Parts turnover.
- Completed PSE&G connection Test.
- Continued to work on punch list for Electrical and Non-Electrical items.

Expected Progress Next Quarter:

- Complete turn over outstanding Spare Parts.
- Complete punch list of Non-Electrical items.
- Continue to procurement of CO 118 equipment (Transformer and Switchgear SE2).
- Start conduit preparation for installation for CO 118.
- Start installation of Switch for parallelism panel.

7. Secondary Flood Protection

Progress This Quarter:

- Continued installing the electric conduit for the service tunnel sump pumps.
- Completed the masonry construction in Aeration Building No. 2.
- Reinstalled electrical equipment in Aeration Building No. 2.
- Completed the concrete placement for the north flood wall in the Operations Building basement.
- Completed the concrete placement for the interior flood wall in the Sludge Pump Control Center.
- Completed the installation of the CMU block for the fire rated vestibules in the Operations Building basement.
- Completed the installation of the coping stone at the Fire Protection Building.
- Started the installation of the coping stone at the Dechlorination Building.
- Started installing reinforcing steel and formwork for the flood walls in the Main Building basement.
- Started the installation of the coping stone at the Sludge Control Building.
- Installed the windows at the RAS, Aeration and the Primary Pump Stations buildings.
- Continued to Submit Shop Drawings, RFI's and Subcontractor/Vendors for Approval.

Expected Progress Next Quarter:

- Continue installing electrical service for service tunnels sump pumps.
- Continue installation of coping stone at the Dechlorination building.
- Continue the installation of the vinyl siding at the Dechlorination building.
- Continue installation of coping stone at the Sludge Control building.

- Start installing coping stone at Primary Pump Station No. 1.
- Place concrete for the Main Building basement flood walls.
- Install flood protection of the Operations Building blower room piping penetrations.
- Install access hatch in the Operations Building blower room.
- Continue to submit Shop Drawings, RFI's and Subcontractor/Vendors for Approval.

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

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

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

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

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

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

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

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

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

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

14. Lawrence and Sage Lake Pump Stations

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

15. East Avenue Ejector Station

Progress This Quarter:

- Completed removals of ejectors, generator, fuel oil tank, level detector, ductwork, MCC and piping.
- Installed temp heat.
- Completed concrete saw cutting.
- Started concrete removals.

Expected Progress Next Quarter:

- Continue concrete removals.
- Install concrete walls inside pump station.
- Prep for equipment installation.

16. Level 1 BNR

Construction is complete, milestone has been met, 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 electric ductbank and manhole installation on east side of Sludge Dewatering Building.
- Continued process air piping installation from the Sludge Dewatering Building to the DA Tank.
- Continued electric conduit installation within the Sludge Dewatering Building.
- Continued electric ductbank installations.
- Continued formwork and rebar installation for EQ tanks roof. Placed equipment pads.
- Continued VFD Installation.
- Continued installation of Support Bridge between Sludge Dewatering Building and DA Tank.
- Continued Odor Control Ductwork Support installation.
- Continued water testing of DA Tanks.
- Continued DA Tank Wall Repair.

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 EQ & DA Tank Stairs Tower Concrete.
- Continue Centrate Piping Installation.
- Continue Electric Rough-in in DA & EQ Tanks.
- Continue Electric ductbank installations.
- Continue DA Tank Hydrostatic Leakage Testing.
- Continue Sitework and backfill.
- Continue odor control duct support installations.
- Continue Bridge installation between DA tank and Dewatering building.
- Continue Process air piping installation.

V.0

Inter Municipal Agreement

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 XI.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.

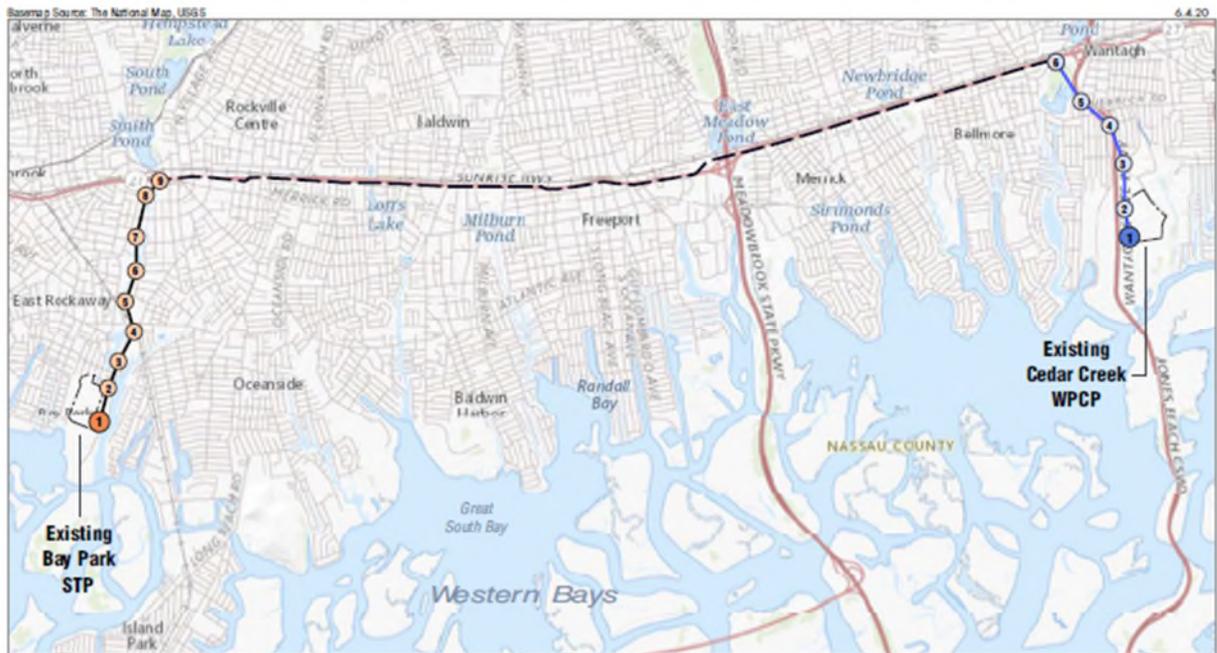
Monthly performance reports have been submitted to DEC showing significant nitrogen removal, continuing despite the cold weather necessitating the transition to winter mode operations with increased aeration.

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 would 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

Description of Work	Agreement Date	Projected / Actual	Milestone Submitted	Milestone Accepted
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

Description of Work	No.	Agreement Date	Projected / Actual	Milestone Submitted	Milestone Accepted
Notice to Proceed	1	3/4/2021	3/4/2021	3/9/2021	3/9/2021
BPM Construction Start	2.1	10/1/2021	10/1/2021		
BPM Design Start	2.2	4/1/2021	4/1/2021	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	7/1/2021		
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		
BPEPS Design Start	4.2	4/1/2021	4/1/2021	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		
SHA Rehabilitation Design Start	5.2	4/1/2021	4/1/2021	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	8/1/2021		
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:

- Finalized the development and deployment of the Web-based Document Management System (Kahua).
- Office of State Comptroller approved the Design Build Contract on 2/26/21.
- Notice of Award was issued to the Design Builder on 2/26/21.
- Conducted virtual Bay Park and Cedar Creek On-Site Communication and Safety Training in anticipation of construction start.
- Official Notice to Proceed (NTP) was issued to Western Bays Contractors on 3/4/2021.
- Conducted Project Kickoff meeting on 3/9/2021.
- Conducted Design Mobilization meeting on 3/23/2021.
- Initiated and conducted weekly design and construction progress meetings.
- Design Builder initiated design services and submitted initial Mobilization Work Plans; 9 design packages; 8 submittal items; and submitted 31 RFIs which were reviewed and responded to by the Department.

Expected Progress Next Quarter:

Bay Park Microtunnel:

- Complete land acquisition tasks.
- Progress in the design – two design packages are anticipated:
 - DP-01 BP-1 SOE Early Works,
 - DP-2A BP-2,3,5 SOE Early Works.
 - Continue data collection efforts that include soil samples, borings, surveys, and test pits pertinent to the design packages.
- Continue weekly design review and construction progress meetings.

Cedar Creek Microtunnel:

- Complete land acquisition tasks.

Bay Park Effluent Diversion Pump Station:

- DP-24 Design package, Site Utility Protection/Relocation
- Continue weekly design review and construction progress meetings.

Sunrise Highway Aqueduct Rehabilitation Construction: no activities anticipated in Q2 2021

Cedar Creek Effluent Pump Station/Receiving Station:

- Perform the structural inspection and survey of the existing 84-inch Outfall.

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 Convey- -ance 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

As shown in Table 8, the next milestone deliverable is more than a year away. The County is reviewing options on how to procure the planning and design services for these deliverables and will provide an update in the next quarter.

IX.0

Environmental Benefit Projects

The proposed design of the Cedar Creek Kayak Launch has received preliminary approval and a detailed submittal is to be made by the County in Q2 2021.

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
DEC Conveyance Team Selects Best-Value Proposal	10/22/2020	2/17/2021	2/17/2021
Conveyance Notice to Proceed	3/4/2021	3/9/2021	3/9/2021
Conveyance Submit Milestones	3/26/2021	4/6/2021	4/13/2021

XI.0

Community Relations

On January 26 and February 23, 2021, the State, County and Design Builder held M/WBE & SDVOB Information and Opportunity sessions to educate qualifying firms on the project context and engagement opportunities in areas such as outreach, construction and signage. The meeting also served to connect firms to points of contact from the State and Design-Build team. On March 3, 2021, the County conducted a meeting with the Bay Park Civic Association Board, where regional stakeholders were informed on project scope of work and introduced to the Design-Build team.

XII.0

Attachments

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
Existing Capital Projects																				
S3B119-05G - Generator Controls																				
Design																				
Design - Generator Controls	74	0	21-Oct-13A	22-Apr-14A	100															
Procurement																				
Procurement - Generator Controls	121	0	28-Oct-13A	25-Feb-14A	100															
Construction																				
Temp Generators Off-line/ Plant Power on House Generators	0	0		18-Nov-14A	100															
Construction - Generator Controls	533	0	15-Nov-13A	24-Jun-16A	100															
S3B120-01G - Influent Screening Facility Improvements																				
CM Contract																				
RFP /Advertise CM Services - Influent Screening	30	0	20-Apr-13A	24-May-13A	100															
Award /NTP CM Services - Influent Screening	40	0	25-May-13A	06-Jan-14A	100															
Construction Contract																				
Bid /Advertise - Influent Screening	40	0	14-Oct-13A	26-Nov-13A	100															
Award /NTP - Influent Screening	90	0	27-Nov-13A	27-May-14A	100															
Construction - Influent Screening	913	0	27-May-14A	09-Jun-17A	100															
S3B120-02G - Grit Removal Facility Improvements																				
CM Contract																				
RFP /Advertise CM Services - Grit Removal	30	0	07-Oct-13A	25-Oct-13A	100															
Award /NTP CM Services - Grit Removal	40	0	26-Oct-13A	26-May-14A	100															
Construction Contract																				
75% to 100% Design /Bid Documents - Grit Removal	236	0	06-May-13A	12-Feb-14A	100															
County Prepare Bid for Advertisement - Grit Removal	7	0	13-Feb-14A	23-Feb-14A	100															
Bid /Advertise - Grit Removal	56	0	24-Feb-14A	21-Mar-14A	100															
Bid Opening - Grit Removal	1	0	25-Mar-14A	25-Mar-14A	100															
Award /NTP - Grit Removal	63	0	26-Mar-14A	20-Apr-15A	100															
Construction - Grit Removal	821	0	20-Apr-15A	18-Jul-17A	100															
S35100-01G - Cleaning & Repair of Digesters & Storage Tanks																				
Construction																				
Construction - Digester Cleaning	720	0	20-May-13A	16-Apr-15A	100															
S35114-03G - Sludge Thickening Facility Improvements																				
CM Contract																				
RFP /Advertise CM Services - Sludge Thickening	30	0	21-Aug-13A	09-Sep-13A	100															
Award /NTP CM Services - Sludge Thickening	30	0	10-Sep-13A	25-Mar-14A	100															
Construction Contract																				
Award /NTP - Sludge Thickening	64	0	21-Aug-13A	24-Oct-13A	100															
Construction - Sludge Thickening	730	0	28-Oct-13A	30-Aug-16A	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-13A	09-Sep-13A	100															
Award /NTP CM Services - Odor Control BP & CC WPCPs	30	0	10-Sep-13A	10-Mar-14A	100															
Construction Contract																				
Award /NTP - Odor Control BP & CC WPCPs	64	0	21-Aug-13A	23-Oct-13A	100															
Construction - Odor Control BP & CC WPCPs	730	0	28-Oct-13A	07-Nov-15A	100															
Hurricane Sandy Projects																				
FEMA Approval Process																				
FEMA 404 Grants	60	0	12-Aug-13A	31-Oct-13A	100															
FEMA Finalize Damage Scope and Cost	45	0	12-Aug-13A	19-Dec-13A	100															
Submit 406 HMP	45	0	12-Aug-13A	19-Dec-13A	100															
FEMA 406 HMP Negotiation	90	0	06-Jan-14A	15-Jan-14A	100															
FEMA Scope and Cost Negotiation	90	0	20-Dec-13A	15-Jan-14A	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	Q	Q
S35121-11G - Effluent Screening & Disinfection																					
CM Contract																					
RFP/Advertise CM Services - Effluent Screening & Disinfection	29	0	01-Feb-19A	01-Mar-19A	100																
Award/NTP CM Services - Effluent Screening & Disinfection	180	0	02-Mar-19A	27-Oct-20A	100																
Design Process																					
Finalize Technical Memorandum - Effluent Screening & Disinfection	45	0	15-Nov-13A	13-Feb-14A	100																
Prepare Design RFP - Effluent Screening & Disinfection	85	0	30-Dec-13A	29-Jan-16A	100																
RFP/Advertise Final Design - Effluent Screening & Disinfection	29	0	29-Jan-16A	26-Feb-16A	100																
Award/NTP Final Design - Effluent Screening & Disinfection	90	0	06-May-16A	09-Jan-17A	100																
Final Design - Effluent Screening & Disinfection	300	0	09-Jan-17A	05-Jan-18A	100																
Bid / Construction																					
County Prepare Bid for Advertisement - Effluent Screening & Disinfection	7	0	01-Jul-18A	07-Jul-18A	100																
Bid/Advertise - Effluent Screening & Disinfection	29	0	13-Jul-18A	10-Aug-18A	100																
Bid Opening - Effluent Screening & Disinfection	1	0	14-Aug-18A	14-Aug-18A	100																
Award/NTP - Effluent Screening & Disinfection	180	0	15-Aug-18A	04-Nov-20A	100																
Construction - Effluent Screening & Disinfection	784	583	04-Nov-20A	14-Nov-22*	24																
S35121-12G - Effluent Pumping Facility Improvements																					
CM Contract																					
RFP/Advertise CM Services - Effluent Tide PB	29	0	01-May-15A	29-May-15A	100																
Award/NTP CM Services - Effluent Tide PB	90	0	30-May-15A	24-Aug-17A	100																
Design Process																					
Finalize Technical Memorandum - Effluent Tide PB	45	0	12-Aug-13A	22-Nov-13A	100																
Preliminary Design - Effluent Tide PB	85	0	26-Sep-13A	27-Feb-14A	100																
RFP/Advertise Final Design - Effluent Tide PB	30	0	28-Feb-14A	28-Mar-14A	100																
Award/NTP Final Design - Effluent Tide PB	90	0	31-Mar-14A	08-Dec-14A	100																
Final Design - Effluent Tide PB	210	0	08-Dec-14A	07-Jul-15A	100																
Bid / Construction																					
County Prepare Bid for Advertisement - Effluent Tide PB	7	0	08-Jul-15A	14-Jul-15A	100																
Bid/Advertise - Effluent Tide PB	29	0	31-Jul-15A	11-Sep-15A	100																
Bid Opening - Effluent Tide PB	1	0	15-Sep-15A	15-Sep-15A	100																
Award/NTP - Effluent Tide PB	90	0	16-Sep-15A	24-Aug-17A	100																
Construction - Effluent Pumping Facility Improvements	820	0	24-Aug-17A	05-May-20A	100																
S35121-13E - Phase E1 Electrical Distribution Systems Improvements																					
CM Contract																					
RFP/Advertise CM Services - Phase E1 EDS	30	0	02-Jan-14A	24-Jan-14A	100																
Award/NTP CM Services - Phase E1 EDS	90	0	25-Jan-14A	07-Jul-14A	100																
Design Process																					
Phase E1 Design	119	0	15-Aug-13A	11-Dec-13A	100																
Finalize Technical Memorandum - Phase 1 EDS	45	0	12-Aug-13A	03-Jan-14A	100																
Bid / Construction																					
County Prepare Bid for Advertisement - Phase E1 EDS	7	0	12-Dec-13A	19-Dec-13A	100																
Bid/Advertise - Phase E1 EDS	30	0	20-Dec-13A	31-Jan-14A	100																
Bid Opening - Phase E1 EDS	1	0	06-Feb-14A	06-Feb-14A	100																
Award/NTP - Phase E1 EDS	76	0	07-Feb-14A	27-May-14A	100																
Construction - Phase E1 EDS	670	0	27-May-14A	19-Oct-16A	100																
S35121-14E - Phase E2 Unit Substation No. 2 & Electrical Distribution																					
Design Process																					
Phase E2 Design - EDS - USS No. 2	155	0	04-Apr-14A	18-Aug-14A	100																
Bid / Construction																					
County Prepare Bid for Advertisement - EDS Phase E2 - USS No. 2	7	0	21-Aug-14A	27-Aug-14A	100																
Bid/Advertise - EDS Phase E2 - USS No. 2	29	0	29-Aug-14A	10-Oct-14A	100																
Bid Opening - EDS Phase E2 - USS No. 2	1	0	14-Oct-14A	14-Oct-14A	100																
Award/NTP - EDS Phase E2 - USS No. 2	90	0	15-Oct-14A	11-May-15A	100																
Construction - Phase E2 - USS No. 2	660	0	11-May-15A	29-Sep-17A	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	Q
S35121-14F - Phase E3 Main Substation & Electrical Distribution																				
Design Process																				
Phase E3 Design- EDS - Main Substation	285	0	01-Apr-14 A	09-Feb-15 A	100		■	■	■	■	■	■	■	■	■	■	■	■	■	
Bid / Construction																				
County Prepare Bid for Advertisement- EDS Phase E3 - MSS	7	0	10-Feb-15 A	12-Feb-15 A	100			■												
Bid/Advertise - EDS Phase E3 - Main Substation	36	0	13-Feb-15 A	17-Apr-15 A	100			■												
Bid Opening - EDS Phase E3 - Main Substation	1	0	21-Apr-15 A	21-Apr-15 A	100			■												
Award/NTP - EDS Phase E3 - Main Substation	90	0	22-Apr-15 A	05-Oct-15 A	100			■												
Construction - Phase E3 - Main Substation	1095	0	05-Oct-15 A	01-Sep-20 A	100			■	■	■	■	■	■	■	■	■	■	■	■	
S35121-14M - Phase E2 & E3 Construction Management																				
CM Contract																				
RFP /Advertise CM Services - Electrical Phase E2 & E3	29	0	25-Jul-14 A	22-Aug-14 A	100			■												
Award/NTP CM Services - Electrical Phase E2 & E3	90	0	23-Aug-14 A	08-Jun-15 A	100			■												
S35123-L33E - Phase E4 Electrical Utility Connections																				
Design Process																				
Preliminary Design - Phase E4 Electrical Utility Connections	90	0	15-Dec-17 A	04-Jun-18 A	100						■									
RFP /Advertise - Final Design - Phase E4 Electrical Utility Connections	29	0	12-Oct-18 A	09-Nov-18 A	100						■									
Award/NTP Final Design - Phase E4 Electrical Utility Connections	120	0	09-Nov-18 A	22-Jan-20 A	100						■	■								
Final Design - Phase E4 Electrical Utility Connections	180	0	22-Jan-20 A	16-Sep-20 A	100						■	■	■							
PSE&G Coordination	5	584	12-Aug-13 A	15-Nov-22	0															
Bid / Construction																				
County Prepare Bid for Advertisement- Phase E4 Electrical Utility Connections	7	0	17-Sep-20 A	24-Sep-20 A	100															
Bid/Advertise - Phase E4 Electrical Utility Connections	29	0	25-Sep-20 A	23-Oct-20 A	100															
Bid Opening - Phase E4 Electrical Utility Connections	1	0	27-Oct-20 A	27-Oct-20 A	100															
Award/NTP - Phase E4 Electrical Utility Connections	180	55	28-Oct-20 A	25-May-21	69															
Construction - Phase E4 Electrical Utility Connections	540	540	25-May-21	15-Nov-22*	0															
Energize & Commission PSE&G Power	0	0		15-Nov-22*	0															
S35121-16A - Engine Facility Auxiliary Upgrades																				
Design Process																				
Final Design - Engine Facility Auxiliary Upgrades	195	0	01-Nov-15 A	30-Sep-16 A	100															
Bid / Construction																				
County Prepare Bid for Advertisement- Engine Facility Auxiliary Upgrades	21	0	30-Sep-16 A	20-Oct-16 A	100															
Bid/Advertise - Engine Facility Auxiliary Upgrades	29	0	21-Oct-16 A	18-Nov-16 A	100															
Bid Opening - Engine Facility Auxiliary Upgrades	1	0	22-Nov-16 A	22-Nov-16 A	100															
Award/NTP - Engine Facility Auxiliary Upgrades	90	0	23-Nov-16 A	05-Jul-17 A	100															
Construction - Engine Facility Auxiliary Upgrades	365	0	05-Jul-17 A	30-Aug-19 A	100															
S35121-16G - Secondary Flood Protection & Hardening of Critical Facilities																				
CM Contract																				
RFP /Advertise CM Services - Secondary Flood Protection	29	0	28-Jul-17 A	25-Aug-17 A	100															
Award/NTP CM Services - Secondary Flood Protection	90	0	26-Aug-17 A	02-Dec-19 A	100															
Design Process																				
Preliminary Design - Secondary Flood Protection	90	0	01-Dec-14 A	29-Oct-15 A	100															
Finalize Technical Memorandum - Secondary Flood Protection	45	0	21-Apr-14 A	29-Oct-15 A	100															
RFP /Advertise Final Design - Secondary Flood Protection	29	0	30-Oct-15 A	04-Dec-15 A	100															
Award/NTP Final Design - Secondary Flood Protection	90	0	05-Dec-15 A	08-Nov-16 A	100															
Final Design - Secondary Flood Protection	210	0	09-Nov-16 A	07-Jul-17 A	100															
Bid / Construction																				
County Prepare Bid for Advertisement- Secondary Flood Protection	7	0	10-Jul-17 A	27-Jul-17 A	100															
Bid/Advertise - Secondary Flood Protection	29	0	27-Oct-17 A	01-Dec-17 A	100															
Bid Opening - Secondary Flood Protection	1	0	05-Dec-17 A	05-Dec-17 A	100															
Award/NTP - Secondary Flood Protection	90	0	06-Dec-17 A	18-Dec-19 A	100															
Construction - Secondary Flood Protection	730	161	18-Dec-19 A	08-Sep-21*	78															
S35121-16P - Heating Hot Water Piping Permanent System																				
CM Contract																				
RFP /Advertise CM Services - Heating Hot Water Piping Permanent System	29	29	15-Jun-21	13-Jul-21	0															

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

Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Award/NTP CM Services - Heating Hot Water Piping Permanent System	190	190	14-Jul-21	19-Jan-22	0														
Design Process																			
Preliminary Design - Heating Hot Water Piping Permanent System	90	0	02-Nov-15A	09-Sep-16A	100														
RFP/Advertise - Final Design - Heating Hot Water Piping Permanent System	29	0	19-Oct-18A	16-Nov-18A	100														
Award/NTP Final Design - Heating Hot Water Piping Permanent System	159	0	16-Nov-18A	16-Sep-20A	100														
Final Design - Heating Hot Water Piping Permanent System	196	104	16-Sep-20A	13-Jul-21	47														
Bid / Construction																			
County Prepare Bid for Advertisement - Heating Hot Water Piping Permanent System	7	7	14-Jul-21	20-Jul-21	0														
Bid/Advertise - Heating Hot Water Piping Permanent System	29	29	23-Jul-21	20-Aug-21	0														
Bid Opening - Heating Hot Water Piping Permanent System	1	1	24-Aug-21	24-Aug-21	0														
Award/NTP - Heating Hot Water Piping Permanent System	180	180	25-Aug-21	20-Feb-22	0														
Construction - Heating Hot Water Piping Permanent System	730	730	20-Feb-22	19-Feb-24*	0														
S35121-16TR - Vehicle Fueling & Tanks Reconstruction																			
Design Process																			
Design - Vehicle Fueling	53	0	10-Mar-14A	02-May-14A	100														
Bid / Construction																			
County Prepare Bid for Advertisement - Vehicle Fueling	7	0	02-May-14A	08-May-14A	100														
Bid/Advertise - Vehicle Fueling	29	0	09-May-14A	06-Jun-14A	100														
Bid Opening - Vehicle Fueling	1	0	10-Jun-14A	10-Jun-14A	100														
Re-Bid/Advertise - Vehicle Fueling	29	0	27-Mar-15A	24-Apr-15A	100														
Bid Opening - Vehicle Fueling	1	0	28-Apr-15A	28-Apr-15A	100														
Award/NTP - Vehicle Fueling	90	0	29-Apr-15A	12-Jun-16A	100														
Construction - Vehicle Fueling	274	0	13-Jun-16A	30-Jan-18A	100														
S35121-16V - Dechlorination Vault Storm Mitigation																			
Design Process																			
Design - Dechlor Sample Vault Hardening	180	0	27-Mar-15A	22-Oct-15A	100														
Bid / Construction																			
County Prepare Bid for Advertisement - Dechlor Sample Vault Hardening	7	0	23-Oct-15A	29-Oct-15A	100														
Bid/Advertise - Dechlor Sample Vault Hardening	36	0	30-Oct-15A	04-Dec-15A	100														
Bid Opening - Dechlor Sample Vault Hardening	1	0	08-Dec-15A	08-Dec-15A	100														
Award/NTP - Dechlor Sample Vault Hardening	90	0	12-Dec-15A	11-May-16A	100														
Construction - Dechlor Sample Vault Hardening	270	0	11-May-16A	11-Aug-17A	100														
S35121-17G - Perimeter Flood Protection																			
CM Contract																			
RFP/Advertise CM Services - Perimeter Flood Protection	30	0	10-Jan-14A	07-Feb-14A	100														
Award/NTP CM Services - Perimeter Flood Protection	90	0	08-Feb-14A	30-Jun-14A	100														
Design Process																			
Geotech Borings - Perimeter Flood Protection	85	0	12-Aug-13A	17-Dec-13A	100														
Permitting (EAS) - Perimeter Flood Protection	125	0	12-Aug-13A	17-Dec-13A	100														
Berm Design - Perimeter Flood Protection	83	0	26-Sep-13A	17-Dec-13A	100														
Finalize Technical Memorandum - Perimeter Flood Protection	45	0	12-Aug-13A	17-Dec-13A	100														
Public Review/Comment Period	30	0	17-Dec-13A	16-Jan-14A	100														
Bid / Construction																			
County Prepare Bid for Advertisement - Perimeter Flood Protection	7	0	17-Jan-14A	23-Jan-14A	100														
Bid/Advertise - Perimeter Flood Protection	29	0	24-Jan-14A	14-Mar-14A	100														
Bid Opening - Perimeter Flood Protection	1	0	18-Mar-14A	18-Mar-14A	100														
Award/NTP - Perimeter Flood Protection	76	0	19-Mar-14A	27-May-14A	100														
Eastern Park Open	0	0		07-Oct-15A	100														
Construction - Perimeter Flood Protection	740	0	27-May-14A	09-Jun-17A	100														
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-15A	28-Aug-15A	100														
Award/NTP CM Services - Flood Protection Phase 1 Stormwater PS	90	0	29-Aug-15A	17-Jun-16A	100														
Design Process																			
Preliminary Design Flood Protection Phase 1 Stormwater PS	97	0	18-Dec-13A	17-Apr-14A	100														
RFP/Advertise Final Design Flood Protection Phase 1 Stormwater PS	29	0	18-Apr-14A	16-May-14A	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	Q
S3P311-05G - Millar, Mott, Long Beach, Royal & Lido																				
Design Process																				
Finalize Technical Memorandum - Pump Station 5	140	0	12-Aug-13A	22-Nov-13A	100	█														
Preliminary Design - Pump Station 5	67	0	23-Jan-14A	27-Mar-14A	100		█													
RFP / Advertise Final Design - Pump Station 5	30	0	28-Mar-14A	25-Apr-14A	100			█												
Award / NTP Final Design - Pump Station 5	94	0	26-Apr-14A	01-Dec-14A	100				█											
Final Design - Pump Station 5	90	0	01-Dec-14A	01-May-15A	100					█										
Bid / Construction																				
County Prepare Bid for Advertisement - Pump Station 5	7	0	02-May-15A	21-May-15A	100															
Bid / Advertise - Pump Station 5	29	0	22-May-15A	19-Jun-15A	100															
Bid Opening - Pump Station 5	1	0	23-Jun-15A	23-Jun-15A	100															
Award / NTP - Pump Station 5	90	0	24-Jun-15A	15-Nov-15A	100															
Construction - Pump Station 5	540	0	16-Nov-15A	29-Aug-17A	100															
S3P311-04M - PS4 & PS5 Construction Management																				
CM Contract																				
RFP / Advertise CM Services - PS4 & PS5	29	0	07-Nov-14A	05-Jan-15A	100															
Award / NTP CM Services - PS4 & PS5	90	0	06-Jan-15A	16-Nov-15A	100															
S3P311-06G - Ocean, Mill, Woodmere & Longacre																				
Design Process																				
Finalize Technical Memorandum - Pump Station 6	140	0	12-Aug-13A	22-Nov-13A	100	█														
Preliminary Design - Pump Station 6	67	0	23-Feb-14A	25-Apr-14A	100		█													
RFP / Advertise Final Design - Pump Station 6	29	0	09-May-14A	30-May-14A	100			█												
Award / NTP Final Design - Pump Station 6	90	0	31-May-14A	15-Apr-15A	100				█											
Final Design - Pump Station 6	90	0	15-Apr-15A	17-Sep-15A	100					█										
Bid / Construction																				
County Prepare Bid for Advertisement - Pump Station 6	7	0	18-Sep-15A	24-Sep-15A	100															
Bid / Advertise - Pump Station 6	29	0	25-Sep-15A	23-Oct-15A	100															
Bid Opening - Pump Station 6	1	0	27-Oct-15A	27-Oct-15A	100															
Award / NTP - Pump Station 6	90	0	28-Oct-15A	15-Mar-17A	100															
Construction - Pump Station 6	550	0	15-Mar-17A	17-Aug-18A	100															
S3P311-07G - Inwood, Doughty, Bayview & Roslyn																				
Design Process																				
Finalize Technical Memorandum - Pump Station 7	140	0	12-Aug-13A	22-Nov-13A	100	█														
Preliminary Design - Pump Station 7	67	0	23-Mar-14A	28-May-14A	100		█													
RFP / Advertise Final Design - Pump Station 7	29	0	30-May-14A	27-Jun-14A	100			█												
Award / NTP Final Design - Pump Station 7	90	0	28-Jun-14A	13-May-15A	100				█											
Final Design - Pump Station 7	90	0	13-May-15A	16-Nov-15A	100					█										
Bid / Construction																				
County Prepare Bid for Advertisement - Pump Station 7	7	0	16-Nov-15A	19-Nov-15A	100															
Bid / Advertise - Pump Station 7	29	0	20-Nov-15A	18-Dec-15A	100															
Bid Opening - Pump Station 7	1	0	22-Dec-15A	22-Dec-15A	100															
Award / NTP - Pump Station 7	90	0	23-Dec-15A	15-Mar-17A	100															
Construction - Pump Station 7	540	0	15-Mar-17A	13-May-19A	100															
S3P311-06M - PS6 & PS7 Construction Management																				
CM Contract																				
RFP / Advertise CM Services - PS6, PS7 & PS8	29	0	22-May-15A	19-Jun-15A	100															
Award / NTP CM Services - PS6, PS7 & PS8	90	0	20-Jun-15A	15-Mar-17A	100															
S3P311-08G - East Avenue																				
CM Contract																				
RFP / Advertise CM Services - East Avenue Pump Station	29	0	08-Mar-19A	05-Apr-19A	100															
Award / NTP CM Services - East Avenue Pump Station	180	0	06-Apr-19A	27-Oct-20A	100															
Design Process																				
Prepare Flow Study & Technical Memorandum - Pump Station 8	27	0	18-Dec-15A	14-Jul-16A	100															
RFP / Advertise - Pump Station 8	29	0	15-Jul-16A	12-Aug-16A	100															
Award / NTP Final Design - Pump Station 8	90	0	13-Aug-16A	29-Mar-17A	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	Q
Award/NTP Final Design - Roslyn Village, Morgan Park & Shore Rd	60	0	16-Jul-16A	02-Feb-17A	100															
Final Design - Roslyn Village, Morgan Park & Shore Rd	154	0	02-Feb-17A	02-Aug-17A	100															
Bid / Construction																				
County Prepare Bid for Advertisement - Roslyn Village, Morgan Park & Shore Rd	7	0	13-Oct-17A	09-Nov-17A	100															
Bid/Advertise - Roslyn Village, Morgan Park & Shore Rd	29	0	10-Nov-17A	08-Dec-17A	100															
Bid Opening - Roslyn Village, Morgan Park & Shore Rd	1	0	12-Dec-17A	12-Dec-17A	100															
Award/NTP - Roslyn Village, Morgan Park & Shore Rd	90	0	13-Dec-17A	01-Dec-20A	100															
Construction - Roslyn Village, Morgan Park & Shore Rd	365	244	01-Dec-20A	30-Nov-21*	33															
S80019-03GR - Cedar Point Lake (Doxey Brook) Pump Station																				
CM Contract																				
RFP/Advertise CM Services - Cedar Point Lake PS	29	0	01-Dec-16A	23-Dec-16A	100															
Award/NTP CM Services - Cedar Point Lake PS	90	0	24-Dec-16A	03-Jan-18A	100															
Design Process																				
Final Design - Cedar Point Lake PS	180	0	10-Feb-16A	28-Oct-16A	100															
Bid / Construction																				
County Prepare Bid for Advertisement - Cedar Point Lake PS	7	0	29-Oct-16A	01-Dec-16A	100															
Bid/Advertise - Cedar Point Lake PS	29	0	02-Dec-16A	06-Jan-17A	100															
Bid Opening - Cedar Point Lake PS	1	0	10-Jan-17A	10-Jan-17A	100															
Award/NTP - Cedar Point Lake PS	90	0	11-Jan-17A	03-Jan-18A	100															
Construction - Cedar Point Lake PS	540	0	03-Jan-18A	20-Dec-19A	100															
Nitrogen Reduction Projects																				
S35123-L38G - Sidestream Deammonification																				
CM Contract																				
RFP/Advertise CM Services - Sidestream Central Treatment	29	0	28-Jul-17A	25-Aug-17A	100															
Award/NTP CM Services - Sidestream Central Treatment	90	0	26-Aug-17A	16-Dec-19A	100															
RFP Process																				
Develop / Issue RFI - Sidestream Central Treatment	60	0	30-Sep-14A	26-May-15A	100															
RFI Response Period - Sidestream Central Treatment	41	0	26-May-15A	07-Aug-15A	100															
RFI Evaluation Period - Sidestream Central Treatment	88	0	08-Aug-15A	29-Feb-16A	100															
NCDPW Review & Award Sidestream Central Treatment	120	0	01-Mar-16A	26-Sep-16A	100															
Design Process																				
Complete Technical Design Report	60	0	27-Sep-16A	26-Nov-16A	100															
Detailed Design - Sidestream Central Treatment	275	0	27-Sep-16A	31-Oct-17A	100															
Bid / Construction																				
County Prepare Bid for Advertisement - Sidestream Central Treatment	17	0	01-Nov-17A	16-Nov-17A	100															
Bid/Advertise - Sidestream Central Treatment	29	0	17-Nov-17A	05-Jan-18A	100															
Bid Opening - Sidestream Central Treatment	1	0	09-Jan-18A	09-Jan-18A	100															
Award/NTP - Sidestream Central Treatment - Cancelled - Re-bid	90	0	10-Jan-18A	23-Aug-18A	100															
Re-Bid/Advertise - Sidestream Central Treatment	29	0	24-Aug-18A	21-Sep-18A	100															
Re-Bid Opening - Sidestream Central Treatment	1	0	25-Sep-18A	25-Sep-18A	100															
Award/NTP - Sidestream Central Treatment	180	0	26-Sep-18A	31-Dec-19A	100															
Construction - Sidestream Central Treatment	730	322	31-Dec-19A	16-Feb-22*	56															
S35123-L39G - Level 1 BNR Improvements																				
CM Contract																				
RFP/Advertise CM Services - Level 1 BNR Improvements	31	0	29-Jul-16A	26-Aug-16A	100															
Award/NTP CM Services - Level 1 BNR Improvements	90	0	27-Aug-16A	05-Jul-17A	100															
Design Process																				
Design - Level 1 BNR Improvements	120	0	30-Nov-15A	23-Sep-16A	100															
Bid / Construction																				
County Prepare Bid for Advertisement - Level 1 BNR Improvements	7	0	24-Sep-16A	29-Sep-16A	100															
Bid/Advertise - Level 1 BNR Improvements	29	0	30-Sep-16A	11-Nov-16A	100															
Bid Opening - Level 1 BNR Improvements	1	0	15-Nov-16A	15-Nov-16A	100															
Award/NTP - Level 1 BNR Improvements	90	0	16-Nov-16A	05-Jul-17A	100															
Construction - Level 1 BNR Improvements	913	0	05-Jul-17A	30-Apr-20A	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
Long Beach WPCP Consolidation																			
S35109-01G - Long Beach Pump Station																			
Design Process																			
Pump Station Final Design - Long Beach Pump Station (PMJV)	186	0	06-May-19 A	21-Jul-20 A	100														
Bid / Construction																			
County Prepare Bid for Advertisement - Long Beach Pump Station	7	0	22-Jul-20 A	30-Jul-20 A	100														
Bid/Advertise - Long Beach Pump Station	29	0	31-Jul-20 A	23-Oct-20 A	100														
Bid Opening - Long Beach Pump Station	1	0	27-Oct-20 A	27-Oct-20 A	100														
Award/NTP - Long Beach Pump Station	205	391	28-Oct-20 A	26-Apr-22	0														
Construction - Long Beach Pump Station	862	862	27-Apr-22	04-Sep-24*	0														
S35109-01S - Long Beach HDD Force Main																			
Design Process																			
HDD Final Design - Long Beach HDD Force Main (PMJV)	186	183	06-May-19 A	30-Sep-21	2														
Bid / Construction																			
County Prepare Bid for Advertisement - Long Beach HDD Force Main	7	7	01-Oct-21	07-Oct-21	0														
Bid/Advertise - Long Beach HDD Force Main	29	29	08-Oct-21	05-Nov-21	0														
Bid Opening - Long Beach HDD Force Main	1	1	09-Nov-21	09-Nov-21	0														
Award/NTP - Long Beach HDD Force Main	181	181	10-Nov-21	09-May-22	0														
Construction - Long Beach HDD Force Main	792	792	10-May-22	09-Jul-24*	0														
S35109-01M - Long Beach Consolidation CM Contract																			
RFP/Advertise CM Services - Long Beach Consolidation	29	0	12-Jun-20 A	10-Jul-20 A	100														
Award/NTP CM Services - Long Beach Consolidation	180	30	11-Jul-20 A	30-Apr-21	83														
S35109-02G - Austin Boulevard Force Main																			
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														
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														
Milestones																			
Program Management/Award	0	0	12-Aug-13 A		100														
Program Management Complete	0	0		31-Mar-26	0														

█ 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
		5/6/2021
Signature		Date Signed