

July 27, 2023

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  
**2023 Q2 Quarterly Report**

---

Dear Mr. Hampston:

We are submitting herewith our Quarterly Report for the period of April 1, 2023, through June 30, 2023.

Very truly yours,



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

<b>c:</b>	<b>NCDPW</b> <i>Kenneth Arnold</i> <i>Jane Houdek</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>	<b>DEC</b> <i>Paul Harding</i> <i>Brian Lee</i> <i>Josh Lin</i> <i>Ryan Waldron</i> <i>Andrew Fera</i> <i>Andrew Fleck</i> <i>Jennifer Pilewski</i> <i>Mandy Yau</i> <i>Dena Putnick</i>
-----------	---	---	---	---

# DEC Agreement Q2 2023 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 .....	20
IX.0 Environmental Benefit Projects .....	21
X.0 Certification of Completed Activities .....	22
XI.0 Community Relations .....	23
XII.0 Attachments .....	24
XIII.0 Project Glossary .....	25

## 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 April 1, 2023, through June 30, 2023.

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 April 1, 2023, through June 30, 2023 (“Reporting Quarter”).

## 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 first Agreement Modification.

A second Agreement Modification is currently in preparation that will revise the Conveyance Project milestones noted in Table 1 as well as revise the Wet Weather/Flow Reduction milestones that were added to the Agreement via Appendix F previously.

The second Modification will also add a new project to Appendix A, the Hempstead Bay-Hassocks Restoration Project.

The modifications were agreed to and sent to the County for execution on December 27<sup>th</sup>, 2022. The modification was fully executed in Q1 2023.

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

<b>Milestone</b>	<b>Agreement Date</b>	<b>Mod request date</b>	<b>Revised date requested</b>	<b>DEC Response Date</b>	<b>Modified Milestone Date<sup>1</sup></b>
General Covid-19 FM	N/A	3/19/2020 <sup>2</sup>	N/A	6/24/2021	N/A
Bay Park Microtunnel Shafts Complete	5/1/2022	4/1/2022	1/3/2023	12/27/2022	9/1/2023
Bay Park Microtunnel Design Complete	5/1/2022	4/1/2022	7/1/2022	12/27/2022	7/1/2022
Cedar Creek Microtunnel Shafts Complete	6/1/2022	4/1/2022	3/9/2023	12/27/2022	9/1/2023
WW/Flow Reduction	Various	N/A	Various	12/27/2022	Various
Hassocks Restoration	TBD	N/A	N/A	12/27/2022	Various
RSP Supply Chain Delays		9/13/2022	N/A		

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**

<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	7/11/2024	70%
3 Sludge Dewatering Facilities	12/15/2018	5/21/2018 A	100%
4 Effluent Screening and Disinfection	8/22/2023	10/31/2023	87%
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	1/28/2022 A	100%
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	10/17/2022 A	100%
16 Level 1 BNR	5/5/2020	4/30/2020 A	100%
17 Sidestream Deammonification	10/3/2022	9/20/2022 A	100%

\* 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:

- Continued installation of rigid conduit and wiring for power, controls, and lighting.
- Continued removal of abandoned conduit in existing MCC and Pump Room.
- Demolish existing RSP No. 5 rheostat pad and infill conduit penetrations.
- Finished installation of gate valve extensions for RSP-3.
- Continued wiring and terminations of equipment inside new electrical room.
- A&F continued electrical testing of equipment.
- Continued work related to main power feeders.
- Continued work related to interim transformer power.
- Finished rotation of discharge elbow for RSP No. 5.
- Layout, formed, and installed RSP No. 5 concrete pedestals.
- Continued layout and installation of vacuum priming system piping in pump room.
- Continued installation of SS piping, valves, and supports for process equipment and instrumentation.
- Continued miscellaneous metals corrective work list for catwalk and stair tower.
- Continued roofing membrane corrective work list.
- Installed concrete ATS pad and cabinet.
- Delivered MCC to jobsite.
- Continue installation of radar level system conduit from scavenger waste to new electrical room.
- Started mounting new local control stations, control panels, and disconnects inside pump room.
- Started installation of junction boxes and pump room conduit rack system.
- Continued submission of RFI's, MOPOs, submittals, and shop drawings subcontractors/vendors for approval.

#### Expected Progress Next Quarter:

- Finish relocation of fire standpipe in existing staircase (P-019).
- Continue miscellaneous metal incomplete items list for stair tower and catwalk.
- Finish installation of 30" valve extensions in pump room for RSP Nos. 1 and 2.
- Start installation of 40" valve extensions in pump room.
- Finish installation of electrical work for the main power feeders, B-side (CO-01).
- Finish installation of interim transformer (CO-07).
- Continue installation of pump room conduit rack, pull-boxes, and wiring.
- Continue MOPO for the switch over of 4160V power (B-side).
- Start MOPO for A-Side electrical feeders.
- Continue installation of MCC and interconnections of equipment.



- Continue mounting new local control stations, control panels, and disconnects inside pump room.
- Continue installation of radar level system conduit from scavenger waste to new electrical room.
- Continue demolition of RSP No. 5 components and existing platform.
- Finish removal and rewiring of air compressor control panel.
- Continue installation of SS piping, valves, and supports for process equipment and instrumentation.
- Install new potable water piping and RPZ in pump room basement.
- Deliver and install in place new dry pit submersible vertical pump No. 5.
- Continue submission of RFI's, Submittals, MOPOs, Shop Drawings and Subcontractor/Vendor approvals.

*Note: Current schedule for Raw Sewage Pumps has remained behind schedule due to equipment delivery delays related to COVID and supply chain issues. It is anticipated that the current Consent Agreement completion milestone will not be met as a result. A letter to this effect was issued to DEC June 6, 2022.*

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

This project has been completed and milestone certification accepted.

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

#### Progress This Quarter:

- Installed Isolation Butterfly Valve No. 1 and Valve Actuator.
- Installed H&V Three-Way Mixing Valve.
- Continued fabrication of remaining Isolation Butterfly Valves.
- Continued preparation and submission of administrative and technical submittals.

#### Expected Progress Next Quarter

- Install pressure gauges and temperature measuring instrumentation for the HVAC system.
- Startup and test H&V Unit.
- Program existing Chemical System Control Panel.
- Receive delivery and start installation of Isolation Butterfly Valve No. 2.
- Electrically connect and test flowmeter.
- Continue preparation and submission of administrative and technical submittals.

*Note: Current schedule for Effluent Screening is behind schedule due to equipment delivery delays. DEC was notified at the last quarterly meeting. All screens are installed and operating but the delays are exclusively related to the isolation valves. Substantial completion is currently projected 13 days beyond the Consent Agreement date and efforts are being made to make up schedule.*

### **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**

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

### **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 working on as-built drawings.
- Removed Engineer's trailer.
- Addressed peeling paint.
- Substantial completion granted 10/17/2022 and milestone certification was submitted to DEC in Q4 2023, which was then accepted 2/6/2023.

#### Expected Progress Next Quarter:

- Complete as-built drawings.
- Complete demobilization from the site.

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

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

## **17. Sidestream Deammonification**

### Progress This Quarter:

- Construction Complete Milestone Certification accepted on November 22, 2022.
- Continued operation of the Sidestream system.
- Continued submission of O&Ms, As-builts, Closeout submittals, and technical submittals.

### Expected Progress Next Quarter:

- Continue submission of O&Ms, As-builts, Closeout submittals, and technical submittals.
- Continue general punch list items.
- Execute Change order Installation of Submersible Centrate Pumps.

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.

The County and the City of Long Beach have executed the first Contract Administration Memorandum (CAM) that details the roles and responsibilities of the two parties with respect to project funding and financing. A second CAM has been executed summarizing the transactional details of payments. A third CAM was executed that constitutes an agreement by which the County will accept sludge residuals from the City due to the City's digester system becoming disabled.

## 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	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	9/1/2023
End 12-month performance period for updated BNR and Sidestream O&M plan.	4/31/2024	8/31/2024
Submit performance data and approvable Final BNR and Sidestream O&M Plan.	8/1/2024	12/1/2024

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

Performance data demonstrates continued compliance with the revised nitrogen limit that went into effect July 1, 2022.

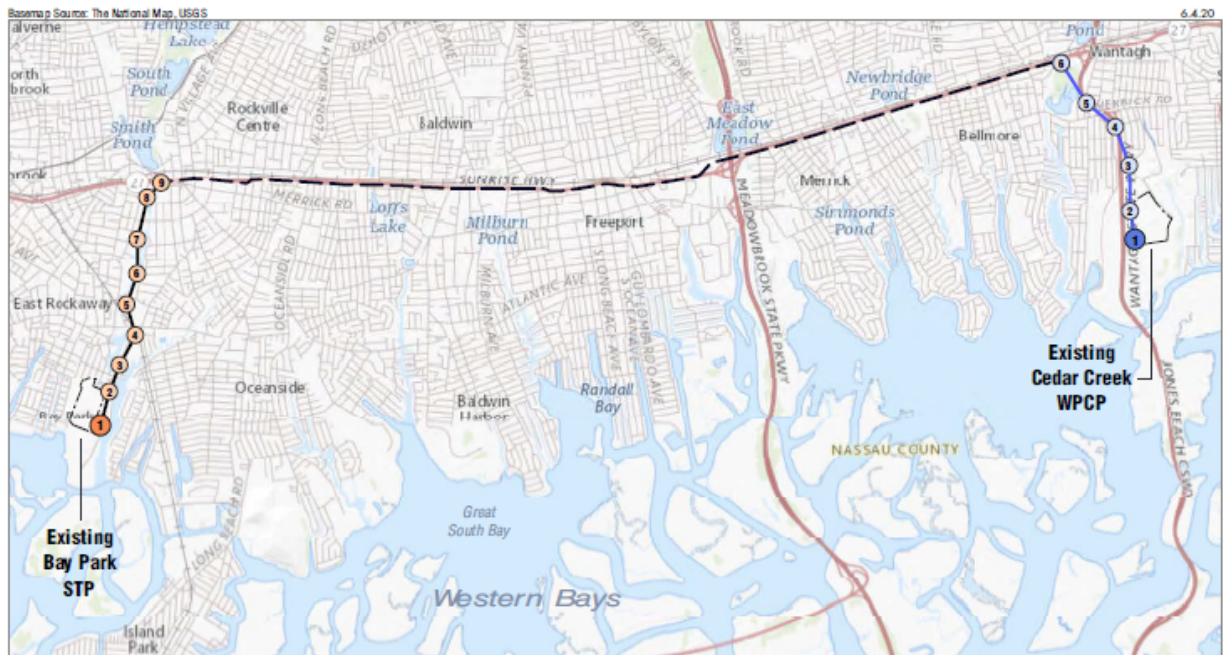
Operational issues upstream of the Sidestream Facility have delayed the implementation of the performance period. A change order will be executed in Q3 of 2023 to alleviate the issues and allow for the performance period to begin. Details will be transmitted via letter from the County to DEC per DEC's request.

## 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 (now known as the South Shore WRF) 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 Diffuser	10/31/2021	<i>10/31/2021</i>		
Notice to Proceed to Construction	2/26/2021	4/4/2021	3/9/2021	3/9/2021
Construction Start Early Works	6/25/2021	<i>6/25/2021</i>		
Commence Diversion of Wastewater from Bay Park to Cedar Creek	10/25/2024	<i>10/25/2024</i>		

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	<b>9/1/2023</b>	<i>9/1/2023</i>		
BPM Design Complete	2.4	<b>7/1/2022</b>	6/28/2022	6/28/2022	6/29/2022
BPM Construction End	2.5	12/30/2023	<i>12/30/2023</i>		
CCM Construction Start	3.1	12/1/2022	<i>12/1/2022</i>	11/8/2022	11/19/2022
CCM Design Start	3.2	7/1/2021	6/29/2021	6/29/2021	7/2/2021
CCM Shafts Complete	3.3	<b>9/1/2023</b>	<i>9/1/2023</i>		
CCM Design Complete	3.4	9/1/2022	6/28/2022	6/28/2022	6/29/2022
CCM Construction End	3.5	12/30/2023	<i>12/30/2023</i>		
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	10/11/2022	10/12/2022
BPEPS Construction End	4.4	12/30/2023	<i>12/30/2023</i>		
SHA Rehabilitation Construction Start	5.1	10/1/2021	<i>10/1/2021</i>	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	<i>12/30/2022</i>	10/11/2022	10/12/2022
SHA Rehabilitation Construction End	5.4	12/30/2023	<i>12/30/2023</i>		
CCEPS/RS Construction Start	6.1	8/1/2022	5/25/2022	5/25/2022	6/1/2022
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	<i>12/1/2021</i>	11/19/2021	12/3/2021
CCEPS/RS Design Completion	6.4	10/1/2022	10/1/2022	10/11/2022	10/12/2022
CCEPS/RS Construction End	6.5	12/30/2023	<i>12/30/2023</i>		
Mechanical Completion	7	12/30/2024	<i>12/30/2024</i>		
Substantial Completion	8	7/30/2024	<i>7/30/2024</i>		
Final Acceptance	9	11/30/2024	<i>11/30/2024</i>		

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  
**Bold notes modified milestones per December 5, 2022 DEC Letter.**



### **Progress This Quarter:**

During 2023 Quarter No. 2, there was continued progress to advance the overall project objectives, which included review and approval of subsequent Design Changes (FDCs/NDCs) and design technical memorandums. DP-11A - Rehabilitation of the Cedar Creek Outfall Clean-out Chamber and Cap (Clean out chamber hatch) pre-RFCD package is still under EOR development.

The Project's administrative goals in the form of reporting, meetings, document control, schedule reviews, quality assurance, and oversight activities continued. Construction activities such as shaft excavation, backfill, CLSM pour, final build out, SWPPP implementation, and other civil works were completed in accordance with RFCD packages. Summarized below are particulars on design, submittals, and construction progress by reach/location during the period.

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

- Design changes to Erosion and Sedimentation Control drawings for this area were submitted for review. Design Change NDC-026.00 DP-06 - Sheet Waterproofing was reviewed and approved.
- Reviewed and processed numerous works plans and construction submittals, including but not limited to, the pumps and their testing procedures, wet well waterproofing leaks, and air conditioning units.
- Continued cap beam stem wall installation and started installation of masonry wall. Installation of electrical conduits and supports also continued. Installation of bypass discharge pipe and supports continued at the Diversion Structure, and all UCD No. 6 - Bay Park Effluent Conduit Bypass work was completed. Started work related to UCD No. 11 – Bay Park Effluent Conduit Repair.

#### **Bay Park Microtunnel:**

- Design changes to Erosion and Sedimentation Control drawings for this area were submitted for review.
- Reviewed and processed numerous work plans and construction submittals, including the BP5 to BP7 revised IJS layout and the baseline report for the micro tunnel drive from BP5 to BP7.
- Cleaning of micro tunnel from BP3 to BP1 for warranty inspection by Thompson Pipe. Sidewalk and curb restoration continued at BP2. Micro tunneling run BP5 to BP7 completed. Continuing excavation of BP8. Maintenance of construction barricades and erosion control at BP9.

#### **Sunrise Highway Sliplining:**

- Design changes to Erosion and Sedimentation Control drawings for this area were submitted for review.
- Reviewed and processed numerous work plans and construction submittals, including but not limited to, shop drawings related to the pipe from BP9 to Pit A and CC6 to Pit W.
- Excavation and installation of CARV vent pipe at Pit B. At Pit D, the steel blind flange was installed at the end of the FRP slip-line for the upcoming hydrostatic test from Pit A to Pit D. Pit excavation, SOE, and roadway planks installation at Pits F and FF. Slip-line

pipe installation activities completed from Pit D to Pit H; this completed all of the slip-line pipe alignment under Sunrise Highway (annular grouting scheduled to be completed in July 2023).

- At Pit K, backfilled and regraded, compacted pit with RCA material up to the subgrade for the precast planks and reinstalled the planks. Started preparing for the final restoration of Pit K. At Pit Q, replaced previously installed vacuum breaker with steel valve at the top of access hatch cover. Repaired the Pit S valve cap from MH access, installed new valve, and replaced the two 2-inch pipes (water/air) leading to CARV manhole. At Pit W, continued with SOE sheeting installation and excavating the trench to CC 6. Steel pipe installation started from Pit W to CC6. The preliminary and final hydrostatic test was completed from Pit O to Pit W.

#### Cedar Creek Microtunnel:

- Received and performed detailed quality and compliance reviews for technical design submittal: DPP-022 - Limited Geotechnical Investigation Cedar Creek Micro-Tunnel Drive 2-1 (NCR-0085). Design changes on Erosion and Sedimentation Control drawings for this area were submitted for review.
- Reviewed and processed numerous work plans and construction submittals, including piping drawings.
- Micro-tunneling pipe connection and manhole installation at CC2. Vibratory compaction was performed at the sinkhole between CC1 and CC2 to return the ground to the original condition. CPT testing was performed in this area, and the results are currently under review. CC2 shaft is in the process of being backfilled with CLSM. Setting up micro-tunneling equipment for CC4 to CC5 run. Finished contact grouting from CC5 to CC6.

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

- Received and performed detailed quality and compliance reviews for technical design submittal: DPP-0021 Design Criteria Memorandum - Rehabilitation of the Cedar Creek Outfall Clean-Out Chamber and Cap.
- Reviewed and processed numerous work plans and construction submittals, including but not limited to, the pumps and their testing procedures, receiving tank, wet tap installation, MOPO regarding the shutdown to install new vertical turbine Pump #3, and test report for VFD#3.
- At the Cedar Creek Pump Station, all work tied to UCD No. 5 – Cedar Creek Electrical Room Demolition and Phase I and Phase II of UCD No. 8 - Cedar Creek Hazmat Abatement were completed. Cedar Creek Pump #3 was removed. At the Cedar Creek Receiving Station, the storage tank and foundation are being installed. Completed the installation of the helical piles. At Building L, the electrical conduits are being removed and replaced with the new conduit raceway and electrical control panels.

#### **Expected Progress Next Quarter:**

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

- Expecting an additional Design Package related to SCADA tie-in at the Bay Park Water Reclamation Facility (WRF). The following design changes are upcoming: permanent

pipe supports, revised steel lintel for CMU and additional monorail, and resubmission of NDC-0019 for cathodic protection at BP1.

- Continue the work of UCD No. 11. Complete the wet wall waterproofing repairs, form and pour baffle walls in wet well, continue installation of CMU at the pump station, finish setting the pump station floor slab, and install structural steel for pump station.

#### Bay Park Microtunnel:

- No more contractual design submissions for Bay Park micro-tunnel are anticipated.
- Finish sidewalk and curb restoration at BP2. Finish grouting the pipe from BP5 to BP7. Start micro-tunneling from BP5 to BP4. Finish the excavation of shafts BP8 and BP9.

#### Sunrise Highway Sliplining:

- Expecting revisions to Erosion and Sedimentation Control drawings for Pit W.
- Low-pressure hydrostatic test to be done from Pit A to Pit D. Complete annular grouting from Pit D to Pit GG. Complete the final restoration of Pit K, Pit C, and Pit M.

#### Cedar Creek Microtunnel:

- Expecting resubmission of DPP-022 - Limited Geotechnical Investigation Cedar Creek Micro-Tunnel Drive 2-1 (NCR-0085).
- Finish backfilling CC2 shaft with CLSM. Start micro-tunneling from CC4 to CC5 and set-up micro-tunneling equipment for CC4 to CC3 run.

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

- Anticipate receipt of one (1) RFCD package for DP-11 – CC Outfall Cleanout Chamber Preliminary Study. Also expecting an additional design package related to SCADA tie-in at the Cedar Creek Water Pollution Control Plant (WPCP).
- Removal of Sluice Gate 7. Complete the installation of the grade beams for the helical piles. Continue erecting the receiving station standpipe tank. At the existing effluent wet tap, chemical grouting will occur around the wet tap installation location, followed by the wet tap slide gate valve and wet tap saddle.

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	1/27/2023  Upon DEC Approval
2. CMOM Program – Submit Operating Plan for Bay Park Conveyance System	3/1/2023
3. Inflow and Infiltration (I/I) Study Work Plan a. Submit I/I study work plans for Bay Park STP and Cedar Creek WPCP b. Conduct I/I studies c. Submit Final Report on Findings	a) 3/31/2023 b) Upon DEC approval of the I/I Work Plan c) Within 12 months of work plan approval or per approved schedule
4. Inflow and Infiltration (I/I) Reduction Plan The County shall use the results of the I/I Study to identify and prioritize cost-effective I/I reduction projects using a data-driven cost/benefit approach consistent with best industry practices.	Submit plan within six months of I/I Study Final Report Approval

DEC has requested a schedule of the I/I reduction plan implementation to complete their review. The County is exploring funding options for these studies currently and will provide the schedule upon determination of funding.

## IX.0

# Environmental Benefit Projects

---

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 plan resubmittal was approved by the DEC Region 1 permitting group on June 6, 2022 and the USACE application was submitted on July 11, 2022. Comments were received in Q1 2023 and the package was resubmitted in this reporting 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
Secondary Flood Protection – CC	1/28/2022	2/2/2022	4/22/2022
Sidestream Deammonification – NTP	12/31/19	12/31/19	12/31/19
East Avenue PS NTP	10/29/2020	10/29/20	11/2/2020
Effluent Screening and Disinfection NTP	10/29/2020	10/29/20	11/2/2020
Level 1 BNR – CC	4/30/2020	5/5/20	10/30/2020
Effluent Pumping Facility – CC	5/5/2020	6/10/20	10/30/2020
Sidestream Deammonification – CC	11/22/2021	10/10/2022	11/22/2022
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	11/8/2022
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
Complete performance period BNR	12/31/2021	1/20/2022	1/21/2022
Submit Approvable Revised BNR O&M Plan	6/1/2022	6/1/2022	6/29/2022

Milestone	Date Completed	Certification Submitted	Certification Accepted
Submit CMOM plans for South Shore and Cedar Creek	1/26/2023	1/26/2023	
Submit Operation Plan for Conveyance System	3/7/2023	3/7/2023	
Submit I/I Study Work Plans	3/30/2023	3/30/2023	

**XI.0**

# Community Relations

From April through June 2023, the State, County, and Design Builder continued in their efforts to disseminate and field community concerns via various community engagement initiatives.

On June 16 from 6 – 7:30pm, the State, County, and Design-Builder held a ninth quarterly general public information session (since the Project’s Notice-to-Proceed) via Zoom to update communities on the Project’s construction progress, reinforce its mission, and to answer any questions from participants. Discussion topics that affect the public included noise and vibration monitoring as well as construction schedules.

Meetings with local elected officials and first responders took place on April 25, May 30, and June 27, where government officials and fire marshals were briefed 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.

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

**2023 Q2 Outreach Summary:**

Item/ Description	Dates
Quarterly Public Information Session	<ul style="list-style-type: none"> <li>• June 16</li> </ul>
Monthly Meeting with First Responders and Elected Officials	<ul style="list-style-type: none"> <li>• April 25</li> <li>• May 30</li> <li>• June 27</li> </ul>



**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	2027	2028
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Bay Park Master Schedule 230630</b>																					
<b>Existing Capital Projects</b>																					
<b>S3B119-05G - Generator Controls</b>																					
<b>Design</b>																					
Design - Generator Controls	74	0	21-Oct-13 A	22-Apr-14 A	100																
<b>Procurement</b>																					
Procurement - Generator Controls	121	0	28-Oct-13 A	25-Feb-14 A	100																
<b>Construction</b>																					
Temp Generators Off-line / Plant Power on House Generators	0	0		18-Nov-14 A	100																
Construction - Generator Controls	533	0	15-Nov-13 A	24-Jun-16 A	100																
<b>S3B120-01G - Influent Screening Facility Improvements</b>																					
<b>CM Contract</b>																					
RFP / Advertise CM Services - Influent Screening	30	0	20-Apr-13 A	24-May-13 A	100																
Award / NTP CM Services - Influent Screening	40	0	25-May-13 A	06-Jan-14 A	100																
<b>Construction Contract</b>																					
Bid / Advertise - Influent Screening	40	0	14-Oct-13 A	26-Nov-13 A	100																
Award / NTP - Influent Screening	90	0	27-Nov-13 A	27-May-14 A	100																
Construction - Influent Screening	913	0	27-May-14 A	09-Jun-17 A	100																
<b>S3B120-02G - Grit Removal Facility Improvements</b>																					
<b>CM Contract</b>																					
RFP / Advertise CM Services - Grit Removal	30	0	07-Oct-13 A	25-Oct-13 A	100																
Award / NTP CM Services - Grit Removal	40	0	26-Oct-13 A	26-May-14 A	100																
<b>Construction Contract</b>																					
75% to 100% Design / Bid Documents - Grit Removal	236	0	06-May-13 A	12-Feb-14 A	100																
County Prepare Bid for Advertisement - Grit Removal	7	0	13-Feb-14 A	23-Feb-14 A	100																
Bid / Advertise - Grit Removal	56	0	24-Feb-14 A	21-Mar-14 A	100																
Bid Opening - Grit Removal	1	0	25-Mar-14 A	25-Mar-14 A	100																
Award / NTP - Grit Removal	63	0	26-Mar-14 A	20-Apr-15 A	100																
Construction - Grit Removal	821	0	20-Apr-15 A	18-Jul-17 A	100																
<b>S35100-01G - Cleaning &amp; Repair of Digesters &amp; Storage Tanks</b>																					
<b>Construction</b>																					
Construction - Digester Cleaning	720	0	20-May-13 A	16-Apr-15 A	100																
<b>S35114-03G - Sludge Thickening Facility Improvements</b>																					
<b>CM Contract</b>																					
RFP / Advertise CM Services - Sludge Thickening	30	0	21-Aug-13 A	09-Sep-13 A	100																
Award / NTP CM Services - Sludge Thickening	30	0	10-Sep-13 A	25-Mar-14 A	100																
<b>Construction Contract</b>																					
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																
<b>S35116-01G - Odor Control at Bay Park &amp; Cedar Creek</b>																					
<b>CM Contract</b>																					
RFP / Advertise CM Services - Odor Control BP & CC WPCPs	20	0	21-Aug-13 A	09-Sep-13 A	100																
Award / NTP CM Services - Odor Control BP & CC WPCPs	30	0	10-Sep-13 A	10-Mar-14 A	100																
<b>Construction Contract</b>																					
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																
<b>Hurricane Sandy Projects</b>																					
<b>FEMA Approval Process</b>																					
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																
<b>S35121-01G/E - Final Settling Tank Rehabilitation</b>																					
<b>Construction Contract</b>																					
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																

█ 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	2027	2028
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>S35123-L33E - Phase E4 Electrical Utility Connections</b>																					
<b>Design Process</b>																					
Preliminary Design - Phase E4 Electrical Utility Connections	90	0	15-Dec-17 A	04-Jun-18 A	100																
RFP / Advertise - Final Design - Phase E4 Electrical Utility Connections	29	0	12-Oct-18 A	09-Nov-18 A	100																
Award / NTP Final Design - Phase E4 Electrical Utility Connections	120	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	103	12-Aug-13 A	10-Oct-23	0																
<b>Bid / Construction</b>																					
County Prepare Bid for Advertisement - Phase E4 Electrical Utility Connection	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	0	28-Oct-20 A	14-Jun-21 A	100																
Construction - Phase E4 Electrical Utility Connections	540	103	15-Jun-21 A	10-Oct-23*	81																
Energize & Commission PSEGLI Power	0	0		10-Oct-23*	0																
<b>PSEG-LI - Phase E4 Primary Power by PSEG-LI</b>																					
<b>Construction</b>																					
Construction - Phase E4 Primary Power by PSEG-LI	540	31	02-Oct-20 A	30-Jul-23*	94																
<b>S35121-16A - Engine Facility Auxiliary Upgrades</b>																					
<b>Design Process</b>																					
Final Design - Engine Facility Auxiliary Upgrades	195	0	01-Nov-15 A	30-Sep-16 A	100																
<b>Bid / Construction</b>																					
County Prepare Bid for Advertisement - Engine Facility Auxiliary Upgrades	21	0	30-Sep-16 A	20-Oct-16 A	100																
Bid / Advertise - Engine Facility Auxiliary Upgrades	29	0	21-Oct-16 A	18-Nov-16 A	100																
Bid Opening - Engine Facility Auxiliary Upgrades	1	0	22-Nov-16 A	22-Nov-16 A	100																
Award / NTP - Engine Facility Auxiliary Upgrades	90	0	23-Nov-16 A	05-Jul-17 A	100																
Construction - Engine Facility Auxiliary Upgrades	365	0	05-Jul-17 A	30-Aug-19 A	100																
<b>S35121-16G - Secondary Flood Protection &amp; Hardening of Critical Facilities</b>																					
<b>CM Contract</b>																					
RFP / Advertise CM Services - Secondary Flood Protection	29	0	28-Jul-17 A	25-Aug-17 A	100																
Award / NTP CM Services - Secondary Flood Protection	90	0	26-Aug-17 A	02-Dec-19 A	100																
<b>Design Process</b>																					
Preliminary Design - Secondary Flood Protection	90	0	01-Dec-14 A	29-Oct-15 A	100																
Finalize Technical Memorandum - Secondary Flood Protection	45	0	21-Apr-14 A	29-Oct-15 A	100																
RFP / Advertise Final Design - Secondary Flood Protection	29	0	30-Oct-15 A	04-Dec-15 A	100																
Award / NTP Final Design - Secondary Flood Protection	90	0	05-Dec-15 A	08-Nov-16 A	100																
Final Design - Secondary Flood Protection	210	0	09-Nov-16 A	07-Jul-17 A	100																
<b>Bid / Construction</b>																					
County Prepare Bid for Advertisement - Secondary Flood Protection	7	0	10-Jul-17 A	27-Jul-17 A	100																
Bid / Advertise - Secondary Flood Protection	29	0	27-Oct-17 A	01-Dec-17 A	100																
Bid Opening - Secondary Flood Protection	1	0	05-Dec-17 A	05-Dec-17 A	100																
Award / NTP - Secondary Flood Protection	90	0	06-Dec-17 A	18-Dec-19 A	100																
Construction - Secondary Flood Protection	730	0	18-Dec-19 A	28-Jan-22 A	100																
<b>S35121-16P - Heating Hot Water Piping Permanent System</b>																					
<b>CM Contract</b>																					
RFP / Advertise CM Services - Heating Hot Water Piping Permanent System	29	0	24-Sep-21 A	22-Oct-21 A	100																
Award / NTP CM Services - Heating Hot Water Piping Permanent System	180	32	23-Oct-21 A	31-Jul-23	82																
<b>Design Process</b>																					
Preliminary Design - Heating Hot Water Piping Permanent System	90	0	02-Nov-15 A	09-Sep-16 A	100																
RFP / Advertise - Final Design - Heating Hot Water Piping Permanent System	29	0	19-Oct-18 A	16-Nov-18 A	100																
Award / NTP Final Design - Heating Hot Water Piping Permanent System	159	0	16-Nov-18 A	16-Sep-20 A	100																
Final Design - Heating Hot Water Piping Permanent System	196	0	16-Sep-20 A	13-Jan-22 A	100																
<b>Bid / Construction</b>																					
County Prepare Bid for Advertisement - Heating Hot Water Piping Permanent	7	0	14-Jan-22 A	03-Feb-22 A	100																
Bid / Advertise - Heating Hot Water Piping Permanent System	29	0	04-Feb-22 A	25-Mar-22 A	100																
Bid Opening - Heating Hot Water Piping Permanent System	1	0	29-Mar-22 A	29-Mar-22 A	100																
Award / NTP - Heating Hot Water Piping Permanent System	180	7	30-Mar-22 A	06-Jul-23	96																
Construction - Heating Hot Water Piping Permanent System	730	730	06-Jul-23	04-Jul-25*	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	2027	2028			
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>S35121-16TR - Vehicle Fueling &amp; Tanks Reconstruction</b>																								
<b>Design Process</b>																								
Design - Vehicle Fueling	53	0	10-Mar-14 A	02-May-14 A	100																			
<b>Bid / Construction</b>																								
County Prepare Bid for Advertisement - Vehicle Fueling	7	0	02-May-14 A	08-May-14 A	100																			
Bid / Advertise - Vehicle Fueling	29	0	09-May-14 A	06-Jun-14 A	100																			
Bid Opening - Vehicle Fueling	1	0	10-Jun-14 A	10-Jun-14 A	100																			
Re-Bid / Advertise - Vehicle Fueling	29	0	27-Mar-15 A	24-Apr-15 A	100																			
Bid Opening - Vehicle Fueling	1	0	28-Apr-15 A	28-Apr-15 A	100																			
Award / NTP - Vehicle Fueling	90	0	29-Apr-15 A	12-Jun-16 A	100																			
Construction - Vehicle Fueling	274	0	13-Jun-16 A	30-Jan-18 A	100																			
<b>S35121-16V - Dechlorination Vault Storm Mitigation</b>																								
<b>Design Process</b>																								
Design - Dechlor Sample Vault Hardening	180	0	27-Mar-15 A	22-Oct-15 A	100																			
<b>Bid / Construction</b>																								
County Prepare Bid for Advertisement - Dechlor Sample Vault Hardening	7	0	23-Oct-15 A	29-Oct-15 A	100																			
Bid / Advertise - Dechlor Sample Vault Hardening	36	0	30-Oct-15 A	04-Dec-15 A	100																			
Bid Opening - Dechlor Sample Vault Hardening	1	0	08-Dec-15 A	08-Dec-15 A	100																			
Award / NTP - Dechlor Sample Vault Hardening	90	0	12-Dec-15 A	11-May-16 A	100																			
Construction - Dechlor Sample Vault Hardening	270	0	11-May-16 A	11-Aug-17 A	100																			
<b>S35121-17G - Perimeter Flood Protection</b>																								
<b>CM Contract</b>																								
RFP / Advertise CM Services - Perimeter Flood Protection	30	0	10-Jan-14 A	07-Feb-14 A	100																			
Award / NTP CM Services - Perimeter Flood Protection	90	0	08-Feb-14 A	30-Jun-14 A	100																			
<b>Design Process</b>																								
Geotech Borings - Perimeter Flood Protection	85	0	12-Aug-13 A	17-Dec-13 A	100																			
Permitting (EAS) - Perimeter Flood Protection	125	0	12-Aug-13 A	17-Dec-13 A	100																			
Berm Design - Perimeter Flood Protection	83	0	26-Sep-13 A	17-Dec-13 A	100																			
Finalize Technical Memorandum - Perimeter Flood Protection	45	0	12-Aug-13 A	17-Dec-13 A	100																			
Public Review/Comment Period	30	0	17-Dec-13 A	16-Jan-14 A	100																			
<b>Bid / Construction</b>																								
County Prepare Bid for Advertisement - Perimeter Flood Protection	7	0	17-Jan-14 A	23-Jan-14 A	100																			
Bid / Advertise - Perimeter Flood Protection	29	0	24-Jan-14 A	14-Mar-14 A	100																			
Bid Opening - Perimeter Flood Protection	1	0	18-Mar-14 A	18-Mar-14 A	100																			
Award / NTP - Perimeter Flood Protection	76	0	19-Mar-14 A	27-May-14 A	100																			
Eastern Park Open	0	0		07-Oct-15 A	100																			
Construction - Perimeter Flood Protection	740	0	27-May-14 A	09-Jun-17 A	100																			
<b>S35121-18G - Flood Protection Phase 1 Stormwater Pumping Stations</b>																								
<b>CM Contract</b>																								
RFP / Advertise CM Services - Flood Protection Phase 1 Stormwater PS	29	0	31-Jul-15 A	28-Aug-15 A	100																			
Award / NTP CM Services - Flood Protection Phase 1 Stormwater PS	90	0	29-Aug-15 A	17-Jun-16 A	100																			
<b>Design Process</b>																								
Preliminary Design Flood Protection Phase 1 Stormwater PS	97	0	18-Dec-13 A	17-Apr-14 A	100																			
RFP / Advertise Final Design Flood Protection Phase 1 Stormwater PS	29	0	18-Apr-14 A	16-May-14 A	100																			
Award / NTP Final Design Flood Protection Phase 1 Stormwater PS	90	0	17-May-14 A	10-Nov-14 A	100																			
Final Design Flood Protection Phase 1 Stormwater PS	210	0	10-Nov-14 A	28-Aug-15 A	100																			
<b>Bid / Construction</b>																								
County Prepare Bid for Advertisement - Flood Protection Phase 1 Stormwater	7	0	28-Aug-15 A	03-Sep-15 A	100																			
Bid / Advertise - Flood Protection Phase 1 Stormwater PS	29	0	04-Sep-15 A	02-Oct-15 A	100																			
Bid Opening - Flood Protection Phase 1 Stormwater PS	1	0	06-Oct-15 A	06-Oct-15 A	100																			
Award / NTP - Flood Protection Phase 1 Stormwater PS	90	0	30-Sep-15 A	31-May-16 A	100																			
Construction - Flood Protection Phase 1 Stormwater PS	760	0	31-May-16 A	24-Jun-19 A	100																			
<b>S35121-18S - Flood Protection Phase 2 Stormwater Green Infrastructure</b>																								
<b>Design Process</b>																								
Preliminary Design - Flood Protection Phase 2 Stormwater GI	96	0	31-Jan-16 A	26-May-16 A	100																			
RFP / Advertise - Final Design Flood Protection Phase 2 Stormwater GI	29	0	27-May-16 A	24-Jun-16 A	100																			
<b>S35123-L37 - Miscellaneous Storm Repairs, Mitigation &amp; Site Restoration</b>																								
<b>CM Contract</b>																								
RFP / Advertise CM Services - Misc Storm Repairs, Mitigation & Restoration	31	31	03-Dec-24	02-Jan-25	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	2027	2028
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>S3P311-09M - Hempstead Wastewater Pumping Station &amp; Force Main CM</b>																					
<b>CM Contract</b>																					
RFP / Advertise CM Services - Hempstead Wastewater Pump Sta & FM	29	0	17-Oct-14 A	14-Nov-14 A	100																
Award / NTP CM Services - Hempstead Wastewater Pump Sta & FM	90	0	15-Nov-14 A	01-Feb-16 A	100																
<b>S3P311-10G - Lawrence PS (STP) &amp; Sage Lake PS</b>																					
<b>CM Contract</b>																					
RFP / Advertise CM Services - Lawrence STP & Sage Lake PS	28	0	25-Jan-16 A	22-Feb-16 A	100																
Award / NTP CM Services - Lawrence STP & Sage Lake PS	90	0	23-Feb-16 A	22-Mar-17 A	100																
<b>Design Process</b>																					
Preliminary Design - Lawrence STP & Sage Lake PS	75	0	02-Jun-14 A	12-Sep-14 A	100																
RFP / Advertise Final Design - Lawrence STP & Sage Lake PS	29	0	12-Sep-14 A	10-Oct-14 A	100																
Award / NTP Final Design - Lawrence STP & Sage Lake PS	61	0	11-Oct-14 A	15-Sep-15 A	100																
Final Design - Lawrence STP & Sage Lake PS	180	0	15-Sep-15 A	08-Mar-16 A	100																
<b>Bid / Construction</b>																					
County Prepare Bid for Advertisement - Lawrence STP & Sage Lake PS	7	0	09-Apr-16 A	14-Apr-16 A	100																
Bid / Advertise - Lawrence STP & Sage Lake PS	29	0	15-Apr-16 A	13-May-16 A	100																
Bid Opening - Lawrence STP & Sage Lake PS	1	0	17-May-16 A	17-May-16 A	100																
Award / NTP - Lawrence STP & Sage Lake PS	90	0	18-May-16 A	22-Mar-17 A	100																
Construction - Lawrence STP & Sage Lake PS	550	0	22-Mar-17 A	13-Aug-18 A	100																
<b>S3P311-11G - Roslyn Village, Morgan Park &amp; Shore Road</b>																					
<b>CM Contract</b>																					
RFP / Advertise CM Services - Roslyn Village, Morgan Park & Shore Rd	47	0	05-Oct-18 A	02-Nov-18 A	100																
Award / NTP CM Services - Roslyn Village, Morgan Park & Shore Rd	180	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 / Advertise Final Design - Roslyn Village, Morgan Park & Shore Rd	29	0	17-Jun-16 A	15-Jul-16 A	100																
Award / NTP Final Design - Roslyn Village, Morgan Park & Shore Rd	60	0	16-Jul-16 A	02-Feb-17 A	100																
Final Design - Roslyn Village, Morgan Park & Shore Rd	154	0	02-Feb-17 A	02-Aug-17 A	100																
<b>Bid / Construction</b>																					
County Prepare Bid for Advertisement - Roslyn Village, Morgan Park & Shore	7	0	13-Oct-17 A	09-Nov-17 A	100																
Bid / Advertise - Roslyn Village, Morgan Park & Shore Rd	29	0	10-Nov-17 A	08-Dec-17 A	100																
Bid Opening - Roslyn Village, Morgan Park & Shore Rd	1	0	12-Dec-17 A	12-Dec-17 A	100																
Award / NTP - Roslyn Village, Morgan Park & Shore Rd	90	0	13-Dec-17 A	01-Dec-20 A	100																
Construction - Roslyn Village, Morgan Park & Shore Rd	365	0	01-Dec-20 A	18-Jul-22 A	100																
<b>S80019-03GR - Cedar Point Lake (Doxey Brook) Pump Station</b>																					
<b>CM Contract</b>																					
RFP / Advertise CM Services - Cedar Point Lake PS	29	0	01-Dec-16 A	23-Dec-16 A	100																
Award / NTP CM Services - Cedar Point Lake PS	90	0	24-Dec-16 A	03-Jan-18 A	100																
<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 Advertisement - Cedar Point Lake PS	7	0	29-Oct-16 A	01-Dec-16 A	100																
Bid / Advertise - Cedar Point Lake PS	29	0	02-Dec-16 A	06-Jan-17 A	100																
Bid Opening - Cedar Point Lake PS	1	0	10-Jan-17 A	10-Jan-17 A	100																
Award / NTP - Cedar Point Lake PS	90	0	11-Jan-17 A	03-Jan-18 A	100																
Construction - Cedar Point Lake PS	540	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 / Advertise CM Services - Sidestream Centrate Treatment	29	0	28-Jul-17 A	25-Aug-17 A	100																
Award / NTP CM Services - Sidestream Centrate Treatment	90	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																
NODPW 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																

█ 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	2027	2028		
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Bid / Construction</b>																							
County Prepare Bid for Advertisement - Sidestream Centrate Treatment	17	0	01-Nov-17 A	16-Nov-17 A	100																		
Bid / Advertise - Sidestream Centrate Treatment	29	0	17-Nov-17 A	05-Jan-18 A	100																		
Bid Opening - Sidestream Centrate Treatment	1	0	09-Jan-18 A	09-Jan-18 A	100																		
Award / NTP - Sidestream Centrate Treatment - Canceled - Re-bid	90	0	10-Jan-18 A	23-Aug-18 A	100																		
Re-Bid / Advertise - Sidestream Centrate Treatment	29	0	24-Aug-18 A	21-Sep-18 A	100																		
Re-Bid Opening - Sidestream Centrate Treatment	1	0	25-Sep-18 A	25-Sep-18 A	100																		
Award / NTP - Sidestream Centrate Treatment	180	0	26-Sep-18 A	31-Dec-19 A	100																		
Construction - Sidestream Centrate Treatment	730	63	31-Dec-19 A	31-Aug-23*	91																		
<b>S35123-L39G - Level 1 BNR Improvements</b>																							
<b>CM Contract</b>																							
RFP / Advertise CM Services - Level 1 BNR Improvements	31	0	29-Jul-16 A	26-Aug-16 A	100																		
Award / NTP CM Services - Level 1 BNR Improvements	90	0	27-Aug-16 A	05-Jul-17 A	100																		
<b>Design Process</b>																							
Design - Level 1 BNR Improvements	120	0	30-Nov-15 A	23-Sep-16 A	100																		
<b>Bid / Construction</b>																							
County Prepare Bid for Advertisement - Level 1 BNR Improvements	7	0	24-Sep-16 A	29-Sep-16 A	100																		
Bid / Advertise - Level 1 BNR Improvements	29	0	30-Sep-16 A	11-Nov-16 A	100																		
Bid Opening - Level 1 BNR Improvements	1	0	15-Nov-16 A	15-Nov-16 A	100																		
Award / NTP - Level 1 BNR Improvements	90	0	16-Nov-16 A	05-Jul-17 A	100																		
Construction - Level 1 BNR Improvements (Substantial Completion)	913	0	05-Jul-17 A	30-Apr-20 A	100																		
Construction - Cyberprop Change Order	365	0	01-May-20 A	31-Dec-21 A	100																		
<b>Long Beach WPCP Consolidation</b>																							
<b>S35109-01GR - Long Beach Pump Station</b>																							
<b>Design Process</b>																							
Pump Station Final Design - Long Beach Pump Station (PMJV)	186	0	06-May-19 A	21-Jul-20 A	100																		
<b>Bid / Construction</b>																							
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 - Canceled	205	0	28-Oct-20 A	20-Apr-21 A	100																		
Redesign - Long Beach Pump Station	7	0	21-Apr-21 A	18-Nov-21 A	100																		
Prepare Bid for Advertisement - Long Beach Pump Station	30	0	31-Jan-22 A	23-Jun-22 A	100																		
Bid / Advertise - Long Beach Pump Station	57	0	24-Jun-22 A	16-Sep-22 A	100																		
Bid Opening - Long Beach Pump Station	1	0	20-Sep-22 A	20-Sep-22 A	100																		
Award / NTP - Long Beach Pump Station	182	28	21-Sep-22 A	27-Jul-23	85																		
Construction - Long Beach Pump Station	844	844	27-Jul-23	16-Nov-25*	0																		
<b>S35109-01S - Long Beach HDD Force Main</b>																							
<b>Design Process</b>																							
HDD Final Design - Long Beach HDD Force Main (PMJV)	186	0	06-May-19 A	24-Nov-21 A	100																		
<b>Bid / Construction</b>																							
Prepare Bid for Advertisement - Long Beach HDD Force Main	2	0	31-Jan-22 A	23-Jun-22 A	100																		
Bid / Advertise - Long Beach HDD Force Main	57	0	24-Jun-22 A	16-Sep-22 A	100																		
Bid Opening - Long Beach HDD Force Main	1	0	20-Sep-22 A	20-Sep-22 A	100																		
Award / NTP - Long Beach HDD Force Main	182	28	21-Sep-22 A	27-Jul-23	85																		
Construction - Long Beach HDD Force Main	828	828	27-Jul-23	31-Oct-25*	0																		
<b>S35109-01MR - Long Beach Consolidation CM Contract</b>																							
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	0	11-Jul-20 A	30-Oct-21 A	100																		
Prepare Rebid CM Services - Long Beach Consolidation	29	0	31-Oct-21 A	23-Jun-22 A	100																		
RFP / Advertise CM Services - Long Beach Consolidation	29	0	24-Jun-22 A	05-Aug-22 A	100																		
Award / NTP CM Services - Long Beach Consolidation	180	28	06-Aug-22 A	27-Jul-23	84																		
<b>S35109-03G - Hempstead Bay Hassocks Restoration</b>																							
<b>CM Contract</b>																							
RFP / Advertise CM Services - Hempstead Bay Hassocks Restoration	31	31	01-Sep-23	01-Oct-23	0																		
Award / NTP CM Services - Hempstead Bay Hassocks Restoration	170	170	02-Oct-23	19-Mar-24	0																		
<b>Design Process</b>																							
Design - Hempstead Bay Hassocks Restoration	120	0	28-Oct-21 A	21-Jul-22 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	2027	2028		
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Bid / Construction</b>																							
Prepare Bid for Advertisement - Hempstead Bay Hassocks Restoration	7	7	01-Sep-23*	07-Sep-23	0																		
Bid / Advertise - Hempstead Bay Hassocks Restoration	29	29	08-Sep-23	06-Oct-23	0																		
Bid Opening - Hempstead Bay Hassocks Restoration	1	1	10-Oct-23	10-Oct-23	0																		
Award / NTP - Hempstead Bay Hassocks Restoration	170	170	11-Oct-23	28-Mar-24	0																		
Construction - Hempstead Bay Hassocks Restoration	180	180	29-Mar-24	24-Sep-24*	0																		
<b>S35109-05 - Collection System Pump Station Mitigation</b>																							
<b>CM Contract</b>																							
RFP / Advertise CM Services - Collection System Pump Station Mitigation	29	29	18-Jun-24	16-Jul-24	0																		
Award / NTP CM Services - Collection System Pump Station Mitigation	180	180	17-Jul-24	12-Jan-25	0																		
<b>Design Process</b>																							
Preliminary Design - Collection System Pump Station Mitigation	180	0	03-Jan-23 A	15-Jun-23 A	100																		
RFP / Advertise Final Design - Collection System Pump Station Mitigation	29	22	16-Jun-23 A	21-Jul-23	24																		
Award / NTP Final Design - Collection System Pump Station Mitigation	180	180	21-Jul-23	16-Jan-24	0																		
Final Design - Collection System Pump Station Mitigation	153	153	17-Jan-24	17-Jun-24	0																		
<b>Bid / Construction</b>																							
County Prepare Bid for Advertisement - Collection System Pump Station Mitigation	7	7	19-Jun-24	25-Jun-24	0																		
Bid / Advertise - Collection System Pump Station Mitigation	29	29	28-Jun-24	26-Jul-24	0																		
Bid Opening - Collection System Pump Station Mitigation	1	1	30-Jul-24	30-Jul-24	0																		
Award / NTP - Collection System Pump Station Mitigation	180	180	31-Jul-24	26-Jan-25	0																		
Construction - Collection System Pump Station Mitigation	548	548	27-Jan-25	28-Jul-26*	0																		
<b>S35109-06 - Long Beach WPCP Decommissioning</b>																							
<b>CM Contract</b>																							
RFP / Advertise CM Services - WPCP Decommissioning	29	29	26-Dec-24	23-Jan-25	0																		
Award / NTP CM Services - WPCP Decommissioning	180	180	24-Jan-25	22-Jul-25	0																		
<b>Design Process</b>																							
Prepare Design RFP - WPCP Decommissioning	90	0	03-Apr-23 A	11-May-23 A	100																		
RFP / Advertise Final Design - WPCP Decommissioning	29	1	12-May-23 A	30-Jun-23	97																		
Award / NTP Final Design - WPCP Decommissioning	180	180	01-Jul-23	27-Dec-23	0																		
Final Design - WPCP Decommissioning	365	365	27-Dec-23	25-Dec-24	0																		
<b>Bid / Construction</b>																							
County Prepare Bid for Advertisement - WPCP Decommissioning	7	7	27-Dec-24	02-Jan-25	0																		
Bid / Advertise - WPCP Decommissioning	29	29	03-Jan-25	31-Jan-25	0																		
Bid Opening - WPCP Decommissioning	1	1	04-Feb-25	04-Feb-25	0																		
Award / NTP - WPCP Decommissioning	180	180	05-Feb-25	03-Aug-25	0																		
Construction - WPCP Decommissioning	450	450	04-Aug-25	27-Oct-26*	0																		
<b>S35109-02G - Austin Boulevard Force Main</b>																							
<b>Design Process</b>																							
Prepare RFP - Austin Boulevard Force Main Design	7	0	05-Feb-16 A	10-Feb-16 A	100																		
Issue RFP for On-Call Final Design - Austin Boulevard Force Main	15	0	11-Feb-16 A	26-Feb-16 A	100																		
Award / NTP Final Design - Austin Boulevard 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																		
<b>Bid / Construction</b>																							
County Prepare Bid for Advertisement - Austin Boulevard Force Main	7	0	08-Sep-18 A	13-Sep-18 A	100																		
Bid / Advertise - Austin Boulevard Force Main	29	0	14-Sep-18 A	09-Nov-18 A	100																		
Bid Opening - Austin Boulevard Force Main	1	0	13-Nov-18 A	13-Nov-18 A	100																		
<b>Milestones</b>																							
Program Management Award	0	0	12-Aug-13 A		100																		
Program Management Complete	0	0		22-Feb-28	0																		

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

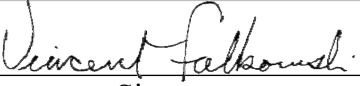


## XIII.0

## 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
		7/27/2023
Signature		Date Signed