

January 30, 2020

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

Agreement DEC Index No: CO 1-20170626-244

Bay Park Sewage Treatment Plant
2019 Q4 Quarterly Report

Dear Mr. Hampston:

We are submitting herewith our Quarterly Report for the period of October 1, 2019 through December 31, 2019.

Very truly yours,



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

| | | | | |
|-----------|---|---|---|--|
| c: | NCDPW <i>Kenneth Arnold</i> <i>Edward Visone</i> <i>John Domenica</i> <i>Jane Houdek</i> <i>Karen Fay</i> <i>Elisa Picca</i> | Hazen and Sawyer <i>Mark Hanson</i> <i>Paul Saurer</i> <i>Eric Mills</i> <i>Tom Zakrzewski</i> | ARCADIS <i>Peter Glus</i> <i>Greg Bazydola</i> <i>Maryanne Dioquino</i> | DEC <i>Cathy Haas</i> <i>Katie French</i> <i>Paul Harding</i> <i>Brian Lee</i> <i>Josh Lin</i> |
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DEC Agreement Q4 2019 Report



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Background

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

The construction of the improvements is catalogued in the Agreement with the New York State Department of Environmental Conservation CO 1-20170626-244 ("Agreement") in January 2018. In accordance with Section VI, Paragraphs A-C of the Agreement the DPW hereby submits to the New York State Department of Environmental Conservation (DEC) the Quarterly Report for the period of October 1, 2019 through December 31, 2019.

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

I.0

Executive Summary

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

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

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

Additional information is included to provide a comprehensive representation of the County's efforts towards achieving compliance with the Agreement. This Quarterly Report updates the status and progress of DPW's compliance with the milestones set forth in the Agreement during the period from October 1, 2019 through December 31, 2019 (“Reporting Quarter”).

There are no key staff changes to report this quarter.

II.0

Modification Request and Force Majeure Status

The following table lists modification requests made by the County and DEC responses to date.

Table 1 – Modification Requests and Force Majeure Notifications

| Milestone | Agreement Date | Mod request letter date | Revised date requested | DEC Response Date | Modified Milestone Date ¹ |
|-----------------------------|----------------|-------------------------|------------------------|-------------------|--------------------------------------|
| Raw Sewage Pumping NTP | 12/3/2018 | 8/24/2018 | 5/15/2019 | 9/12/2018 | <i>5/15/2019</i> |
| Raw Sewage Pumping NTP | 5/15/2019 | 5/3/2019 | 11/23/2019 | 7/1/2019 | 11/23/2019 |
| Raw Sewage Pumping NTP | 11/23/2019 | 12/31/2019 | 5/31/2020 | | |
| Raw Sewage Pumping CC | 12/1/2020 | 8/24/2018 | 2/27/2022 | 9/12/2018 | 2/27/2022 |
| Raw Sewage Pumping CC | 2/27/2022 | 12/31/2019 | 2/9/2023 | | |
| Effluent Screening NTP | 8/21/2018 | 8/24/2018 | 2/21/2019 | 9/12/2018 | <i>2/21/2019</i> |
| Effluent Screening NTP | 2/21/2019 | 5/3/2019 | 10/5/2019 | 7/1/2019 | 10/5/2019 |
| Effluent Screening NTP | 10/5/2019 | 12/31/2019 | 5/31/2020 | | |
| Effluent Screening CC | 7/29/2020 | 8/24/2018 | 10/14/2021 | 9/12/2018 | 10/14/2021 |
| Effluent Screening CC | 10/14/2021 | 12/31/2019 | 1/24/2023 | | |
| Secondary Flood NTP | 6/5/2018 | 8/24/2018 | 2/15/2019 | 9/12/2018 | <i>2/15/2019</i> |
| Secondary Flood NTP | 2/15/2019 | 5/3/2019 | 7/20/2019 | 7/1/2019 | 7/20/2019 |
| Secondary Flood NTP | 7/20/2019 | 12/31/2019 | 12/18/2019 | | |
| Secondary Flood CC | 7/26/2020 | 8/24/2018 | 8/15/2021 | 9/12/2018 | 8/15/2021 |
| Secondary Flood CC | 8/15/2021 | 12/31/2019 | 6/17/2022 | | |
| Stormwater Pump Stations CC | 3/31/2018 | 8/24/2018 | 3/31/2019 | 9/12/2018 | 3/31/2019 |
| 3 Generator Operation CC | 11/30/2018 | 8/24/2018 | 3/31/2019 | 9/12/2018 | <i>3/31/2019</i> |
| 3 Generator Operation CC | 3/31/2019 | 1/10/2019 ² | 5/19/2019 | 2/22/2019 | 5/19/2019 |
| East Avenue Station NTP | 8/19/2018 | 8/24/2018 | 4/15/2019 | 9/12/2018 | <i>4/15/2019</i> |
| East Avenue Station NTP | 4/15/2019 | 5/3/2019 | 11/23/2019 | 7/1/2019 | 11/23/2019 |
| East Avenue Station NTP | 11/23/2019 | 12/31/2019 | 7/31/2020 | | |
| East Avenue Station CC | 12/28/2019 | 8/24/2018 | 2/13/2021 | 9/12/2018 | 2/13/2021 |
| East Avenue Station CC | 2/13/2021 | 12/31/2019 | 7/22/2022 | | |
| Sidestream NTP | 6/12/2018 | 8/24/2018 | 3/25/2019 | 9/12/2018 | <i>3/25/2019</i> |
| Sidestream NTP | 3/25/2019 | 5/3/2019 | 7/20/2019 | 7/1/2019 | 7/20/2019 |
| Sidestream NTP | 7/20/2019 | 12/31/2019 | 1/3/2020 | | |
| Sidestream CC | 12/28/2019 | 8/24/2018 | 9/25/2021 | 9/12/2018 | 7/8/2021 |
| Sidestream CC | 9/25/2021 | 12/31/2019 | 7/3/2022 | | |
| Effluent Pumping CC | 5/28/2020 | 10/19/2018 ² | 1/15/2021 | 12/20/2018 | 1/15/2021 |
| Electrical Dist. Upgrade | 9/21/2019 | 11/20/2019 | 7/31/2020 | | |
| Level 1 BNR CC | | 5/3/2019 ² | | 7/1/2019 | |
| Level 1 BNR CC | | 8/5/2019 ² | 5/14/2020 | 12/30/2019 | 5/14/2020 |

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

III.0

Notice of Violation Status

DEC issued a Notice of Violation on November 13, 2019, regarding missed milestones for issuing Notice to Proceed on several projects. Two of the three projects cited (Secondary Flood Protection and Sidestream Deammonification) have since been granted Notice to Proceed. The County issued a response with revised projections and action plan on December 31, 2019 and continues in its efforts to issue a Notice to Proceed for the remaining project listed in the NOV as soon as possible.

IV.0

Design Milestone Status

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

Table 2 – Design Completion Milestones

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

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

Project Notes:

All agreement design milestones have been completed and certifications accepted.

V.0

Construction Milestone Status

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

Table 3 – Construction NTP Milestones

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

Table 4 – Construction Completion Milestones

| Milestone | Agreement Date | Actual/Forecast | % Complete |
|---------------------------------------|-----------------------|------------------------|-------------------|
| 1 Barnes Avenue – Baldwin | 12/31/2019 | 10/4/2019 A | 100% |
| 2 Raw Sewage Pumping Facility | 2/27/2022 | 6/5/2022 | 0% |
| 3 Sludge Dewatering Facilities | 12/15/2018 | 5/21/2018 A | 100% |
| 4 Effluent Screening and Disinfection | 10/14/2021 | 1/31/2022 | 0% |
| 5 Effluent Tide Pumping Facilities | 1/15/2021 | 5/13/2020 | 80% |
| 6 Electrical Distribution Phase E1-E3 | 9/21/2019 | 6/15/2020 | 98% |
| 7 Secondary Flood Protection | 8/15/2021 | 12/16/2021 | 0% |
| 8 Stormwater Pump Stations | 3/31/2019 | 3/28/2019 A | 100% |
| 9 Upgrade To 3 Generator Operation | 5/19/2019 | 8/30/2019 A | 100% |
| 10 Cedar Dr, Roosevelt et al PS | 5/8/2018 | 1/12/2018 A | 100% |
| 11 Wantagh, Newbridge et al PS | 4/25/2018 | 2/12/2018 A | 100% |
| 12 Ocean Ave, Mill Rd et al PS | 12/5/2018 | 8/17/2018 A | 100% |
| 13 Inwood, Doughty et al PS | 7/4/2019 | 5/13/2019 A | 100% |
| 14 Lawrence & Sage Lake PS | 8/30/2018 | 8/13/2018 A | 100% |
| 15 East Avenue Ejector Station | 2/13/2021 | 7/22/2022 | 0% |
| 16 Level 1 BNR | 5/14/2020 | 3/31/2020 | 90% |
| 17 Sidestream Deammonification | 7/8/2021 | 12/29/2021 | 0% |

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

Project Notes:

1. Barnes Avenue – Baldwin

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

Progress This Quarter:

Contract #S3P311-09G Hempstead Wastewater Pumping Station:

- Continued punch list work and project close-out

Expected Progress Next Quarter:

- Continue punch list items

2. Raw Sewage Pumping Facility

This project did not meet the original NTP milestone date of May 15, 2019. A milestone modification request was submitted by the County 12/31/19 to extend the NTP date to 5/31/20.

Progress This Quarter:

The County continued with the award process.

Expected Progress Next Quarter:

The County will be continuing with the award process with goal of a Q2 2020 NTP.

3. Sludge Dewatering Facilities

This project is nearing final completion and received substantial completion in May 2019.

Progress This Quarter:

- Continued de-mobilization
- Continue sealing shafts per Fire Marshal directive
- Continued general punch list work.

Expected Progress Next Quarter:

- Final Fire Alarm inspection
- General punch list work items

4. Effluent Screening and Disinfection

This project did not meet the NTP milestone date of 10/5/19. A milestone modification request was submitted by the County 12/31/19 to extend the NTP date to 5/31/20.

Progress This Quarter:

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

Expected Progress Next Quarter

The County will be continuing with the award process with goal of a Q2 2020 NTP.

5. Effluent Tide Pumping Facilities

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

Progress This Quarter:

- Installed new Butterfly Valve, Effluent Pump Pipe Support, Pump No. 3, and Swing Check Valve.
- Pulled & Terminated Power Wire and Signal Wire to Effluent Water Pump No. 3.
- Perform VFD/Pump No. 3 Checkout & Startup.
- Installed Linear Metal Ceilings and Lighting Fixtures in Communication Room and Vestibule of the New Electrical Annex Building.
- Progressed the Installation of Fire Alarm Devices within Communication Room and Vestibule of the New Electrical Annex Building.
- Continued to Install Conduits, Pull & Terminate Wires and Cables to HVAC Equipment, MCC, PLC, VFDs, Power Panels, Instrumentation Panel, Sensors, and Flow Switches.
- Progressed the installation of HVAC Control Panel CP-HV-70815 with associated wires and conduits.
- Progressed the installation of Electrical Conduit, Wires, and Cables in EPF at Mezzanine Level.
- Removed Existing Platform & Stairs Within EPF Building Elevation +3.41 to Elevation +10.00.
- Started preparatory work for Demolition of Effluent Pump No. 4, Associated Piping, and Concrete Pad in EPF.

Expected Progress Next Quarter

- Install Exterior Door & Hardware within EPF Building.
- Install Effluent Pump Control Panel Mezzanine Level.
- Perform MOPO for permanent power re-route to new switchgear side B and Pull & Terminate “B” side Feeders.
- Perform installation of Effluent Pump No. 4 and associated piping and valves.
- Perform demolition of Existing Electrical Equipment for erection of new Mezzanine.
- Start the installation of Structural Steel & Cross Bracing Mezzanine.

6. Electrical Distribution System Phases E1-E3

Phases E1 and E2 were completed 10/19/2016 and 9/29/2017, respectively. The transition from the old main substation to the new has taken more time than anticipated due to complexity of the task and criticality of the system to maintain plant operations, issues related to the functionality of existing breakers, and a lack of contractor performance. The project has continued beyond the milestone date of September 21, 2019. The County’s consultants continue to work with the contractor in an effort to improve upon the plan and reduce activity duration. A milestone modification request was submitted 11/20/19.

Progress This Quarter:

- Completed testing of new feeder cables for Primary Source Generator-3 upon completion of splicing.
- Performed functionality testing and 5 day run time of Primary Source Generator-3.
- Completed termination of “A” 5KV feeders from S1 at Substation No. 3.
- Completed MOPO migration of Primary Source Generator No. 3 to New S1
- Suez turned over PG-4 to Contractor on 12-16-19 for MOPO migration of the generator to S1.
- Pulled out existing PG-4 2.4KV cables from existing S1 to line side cabinet.
- Removed duct bank from Primary Source Generator-4 and rerouted conduits for same.
- Pulled in 5KV feeder cables from EMH-22A to line side cabinet of Primary Source Generator G-4.
- Completed communications conduits/duct bank on west side of Generator Bldg.
- Continued installation of Communications conduits in the tunnel, Operations Building.
- Began removal of existing and temporary power cables, duct banks and manholes on East side of site.
- Began backfilling and compaction on East road grids 10, 11 and 14 after ductbank removal.
- Continued to work on punch list.
- Performed Panelboard, Cast Coil Transformers, MCC and USS-1 training.

Expected Progress Next Quarter:

- Complete MOPO migration and run test of Primary Source Generator No. 4 to new S1 Switchgear.
- Continue installation of Communications conduits in the tunnel, Operations Building.
- Complete removal of temporary power cables, duct banks and manholes on East side of site.
- Complete backfill and compaction on east road Grids 10, 11 & 12.
- Begin CO work on a T&M basis to correct cable crossing issue at USS-2.
- Start migration of existing S2 Switchgear in Operations Bldg to new S1 Switchgear.
- Submit MOPO sequencing for eight 480V MCC’s in existing Substation No.1 to USS-1.

7. Secondary Flood Protection

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

Progress This Quarter:

Notice to proceed for this project was issued December 18, 2019.

Expected Progress Next Quarter:

Continue to progress CPM Schedule, Subcontractor/Venders Approval, RFI, and Shop Drawing Submittals.

8. Stormwater Pump Stations

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

Progress This Quarter:

- Continued punch list and incomplete items list work

Expected Progress Next Quarter:

- Continue punch list and incomplete work items

9. Upgrade to 3 Simultaneous Generator Operation

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

Progress This Quarter:

- Substantial Completion granted on August 30, 2019

Expected Progress Next Quarter:

- Continue punchlist work

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

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

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

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

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

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

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

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

14. Lawrence and Sage Lake Pump Stations

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

15. East Avenue Ejector Station

The construction and construction management services contracts were advertised on March 8, 2019. Bids and proposals were received in April, 2019, and the County was proceeding with the award process to the low bidder. On September 20, 2019, the low bidder withdrew from consideration as they had made a gross error in their bid having omitted the bypass

pumping required to execute the work. The County is now proceeding with the award process to the second low bidder. The NTP milestone date of November 23, 2019 will not be met and a letter of notification was issued to DEC. An update will be provided in Q1 2020.

16. Level 1 BNR

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

Progress This Quarter:

- Completed the concrete crack repair work in Aeration Tank No. 1
- Started the installation of the 12" SS SWAS pipe.
- Started the MIC coating on the sidewall in Aeration Tank No. 1
- Started the installation of the mixer supports in Aeration Tank No. 1

Expected Progress Next Quarter:

- Continue the MIC coating on sidewall Aeration Tank No. 1.
- Continue the installation of 12" SS SWAS pipe.
- Start the installation of the mixers and baffle walls Aeration Tank No. 1.
- Start the installation of the diffusers Aeration Tank No. 1.
- Conduct the training for the MCC and ATS

17. Sidestream Deammonification

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

Progress This Quarter:

Notice to Proceed was issued December 31, 2019.

Expected Progress Next Quarter:

Continue to progress CPM Schedule, Subcontractor/Venders Approval, RFI, and Shop Drawing Submittals

VI.0

Inter Municipal Agreement

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

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

The County has initiated the design phase for the Long Beach WPCP Consolidation. The design of the influent pump station conversion is at the 70% stage and the force main routing is in the process of obtaining permit approvals for the geotechnical investigation from local, State and Federal agencies.

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

As per discussion with the State, the County anticipates connecting the City collection system to Bay Park in advance of the Long Beach administrative consent order date of June, 2024. As to interim milestones, the County will be in a better position to determine such dates after the force main route has been finalized. The preferred alternative is in the process of being evaluated by federal and state permitting agencies. Accordingly, additional milestones regarding the connection of Long Beach to Bay Park will be proposed after the connection route has been approved.

VII.0

Nitrogen Interim Limit Schedule of Compliance

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

Table 5 – Bay Park WPCP Interim Nitrogen Limits

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

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

The BNR O&M Plan was submitted to DEC on the January 8, 2020 milestone.

VIII.0

Diversion Project

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

Table 6 – Diversion Project Milestones

| Description of Work | Completion Date |
|--|------------------------|
| Slip lining of aqueduct along Sunrise Highway | November 2019 |
| Diversion Project Report | January 2018 |
| Design Start | TBD |
| Design Completion | TBD |
| Impact Report | TBD |
| Notice to Proceed to Construction | TBD |
| Construction Completion and Commence Diversion of Influent Wastewater from Bay Park WWTP to Cedar Creek WWTP | June 2024 |

Progress This Quarter:

The preliminary designer submitted the Final Design Criteria package and the RFQ was issued by DEC. Qualifications of proposing teams were reviewed and production of the RFP package was initiated.

Expected Progress Next Quarter:

A shortlist of proposers shall be selected and the Request for Proposals shall be issued. Environmental assessments and community outreach will continue.

Project Milestones:

NYSDEC is considering adjusting the milestones to better align with the current project delivery methodology which is utilizing Design-Build project delivery.

IX.0

Environmental Benefit Projects

The County's Cedar Creek Program Manager has selected a design sub consultant and the procurement process for the general contractor has been initiated.

X.0

Certification of Completed Activities

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

Table 7 – Completed Activities

| Milestone | Date Completed | Certification Submitted | Certification Accepted |
|--|----------------|-------------------------|------------------------|
| Effluent Screening and Disinfection - Design Completion | 1/5/2018 | 7/5/2018 | 9/13/2018 |
| East Avenue Ejector Station - Design Completion | 3/2/2018 | 7/5/2018 | 9/13/2018 |
| Cedar Dr, Roosevelt et al PS - Construction Completion | 1/12/2018 | 7/5/2018 | 11/27/2018 |
| Wantagh, Newbridge et al PS – Construction Completion | 2/12/2018 | 7/5/2018 | 11/27/2018 |
| Sage Lake and Lawrence PS – Construction Completion | 8/13/2018 | 8/24/2018 | 11/27/2018 |
| Ocean Ave, Mill Road et al PS – Construction Completion | 8/17/2018 | 9/19/2018 | 11/27/2018 |
| Sludge Dewatering Facilities – Construction Completion | 10/12/2018 | 10/24/2018 | 1/4/2019 |
| Inwood, Doughty et al PS – Construction Completion | 2/19/2019 | 2/28/2019 | 5/1/2019 |
| Stormwater Pump Stations – Construction Completion | 3/28/2019 | 4/3/2019 | 4/19/2019 |
| Upgrade to 3 Generator Operation – Construction Completion | 8/30/2019 | 9/12/2019 | 11/7/2019 |

XI.0

Community Relations

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

XII.0

Attachments

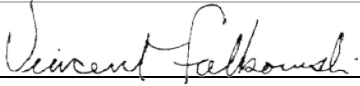
1. Program Master Schedule

XIII.0

Project Glossary

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

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

| | | |
|---|--|---------------------|
| Vincent Falkowski, PE, PMP, CCM | | Deputy Commissioner |
| Permittee (Per CRF 122.22) | | Title |
|  | | 1/30/2020 |
| Signature | | Date Signed |

| Activity Name | Orig Dur | Rem Dur | Start | Finish | % Comp | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 19 |
|--|----------|---------|-------------|-------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| | | | | | | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Bay Park Master Schedule 191231 | | | | | | | | | | | | | | | | | | |
| Existing Capital Projects | | | | | | | | | | | | | | | | | | |
| S3B119-05G - Generator Controls | | | | | | | | | | | | | | | | | | |
| Design | | | | | | | | | | | | | | | | | | |
| Design - Generator Controls | 74 | 0 | 21-Oct-13 A | 22-Apr-14 A | 100 | | | | | | | | | | | | | |
| Procurement | | | | | | | | | | | | | | | | | | |
| Procurement - Generator Controls | 121 | 0 | 28-Oct-13 A | 25-Feb-14 A | 100 | | | | | | | | | | | | | |
| Construction | | | | | | | | | | | | | | | | | | |
| Temp Generators Off-line / Plant Power on House Generators | 0 | 0 | | 18-Nov-14 A | 100 | | | | | | | | | | | | | |
| Construction - Generator Controls | 533 | 0 | 15-Nov-13 A | 24-Jun-16 A | 100 | | | | | | | | | | | | | |
| S3B120-01G - Influent Screening Facility Improvements | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Influent Screening | 30 | 0 | 20-Apr-13 A | 24-May-13 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - Influent Screening | 40 | 0 | 25-May-13 A | 06-Jan-14 A | 100 | | | | | | | | | | | | | |
| Construction Contract | | | | | | | | | | | | | | | | | | |
| Bid / Advertise - Influent Screening | 40 | 0 | 14-Oct-13 A | 26-Nov-13 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Influent Screening | 90 | 0 | 27-Nov-13 A | 27-May-14 A | 100 | | | | | | | | | | | | | |
| Construction - Influent Screening | 913 | 0 | 27-May-14 A | 09-Jun-17 A | 100 | | | | | | | | | | | | | |
| S3B120-02G - Grit Removal Facility Improvements | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Grit Removal | 30 | 0 | 07-Oct-13 A | 25-Oct-13 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - Grit Removal | 40 | 0 | 26-Oct-13 A | 26-May-14 A | 100 | | | | | | | | | | | | | |
| Construction Contract | | | | | | | | | | | | | | | | | | |
| 75% to 100% Design / Bid Documents - Grit Removal | 236 | 0 | 06-May-13 A | 12-Feb-14 A | 100 | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Grit Removal | 7 | 0 | 13-Feb-14 A | 23-Feb-14 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Grit Removal | 56 | 0 | 24-Feb-14 A | 21-Mar-14 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Grit Removal | 1 | 0 | 25-Mar-14 A | 25-Mar-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Grit Removal | 63 | 0 | 26-Mar-14 A | 20-Apr-15 A | 100 | | | | | | | | | | | | | |
| Construction - Grit Removal | 821 | 0 | 20-Apr-15 A | 18-Jul-17 A | 100 | | | | | | | | | | | | | |
| S35100-01G - Cleaning & Repair of Digesters & Storage Tanks | | | | | | | | | | | | | | | | | | |
| Construction | | | | | | | | | | | | | | | | | | |
| Construction - Digester Cleaning | 720 | 0 | 20-May-13 A | 16-Apr-15 A | 100 | | | | | | | | | | | | | |
| S35114-03G - Sludge Thickening Facility Improvements | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Sludge Thickening | 30 | 0 | 21-Aug-13 A | 09-Sep-13 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - Sludge Thickening | 30 | 0 | 10-Sep-13 A | 25-Mar-14 A | 100 | | | | | | | | | | | | | |
| Construction Contract | | | | | | | | | | | | | | | | | | |
| Award / NTP - Sludge Thickening | 64 | 0 | 21-Aug-13 A | 24-Oct-13 A | 100 | | | | | | | | | | | | | |
| Construction - Sludge Thickening | 730 | 0 | 28-Oct-13 A | 30-Aug-16 A | 100 | | | | | | | | | | | | | |
| S35116-01G - Odor Control at Bay Park & Cedar Creek | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Odor Control BP & CC WPCPs | 20 | 0 | 21-Aug-13 A | 09-Sep-13 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - Odor Control BP & CC WPCPs | 30 | 0 | 10-Sep-13 A | 10-Mar-14 A | 100 | | | | | | | | | | | | | |
| Construction Contract | | | | | | | | | | | | | | | | | | |
| Award / NTP - Odor Control BP & CC WPCPs | 64 | 0 | 21-Aug-13 A | 23-Oct-13 A | 100 | | | | | | | | | | | | | |
| Construction - Odor Control BP & CC WPCPs | 730 | 0 | 28-Oct-13 A | 07-Nov-15 A | 100 | | | | | | | | | | | | | |
| Hurricane Sandy Projects | | | | | | | | | | | | | | | | | | |
| FEMA Approval Process | | | | | | | | | | | | | | | | | | |
| FEMA 404 Grants | 60 | 0 | 12-Aug-13 A | 31-Oct-13 A | 100 | | | | | | | | | | | | | |
| FEMA Finalize Damage Scope and Cost | 45 | 0 | 12-Aug-13 A | 19-Dec-13 A | 100 | | | | | | | | | | | | | |
| Submit 406 HMP | 45 | 0 | 12-Aug-13 A | 19-Dec-13 A | 100 | | | | | | | | | | | | | |
| FEMA 406 HMP Negotiation | 90 | 0 | 06-Jan-14 A | 15-Jan-14 A | 100 | | | | | | | | | | | | | |
| FEMA Scope and Cost Negotiation | 90 | 0 | 20-Dec-13 A | 15-Jan-14 A | 100 | | | | | | | | | | | | | |

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

| Activity Name | Orig Dur | Rem Dur | Start | Finish | % Comp | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 19 |
|--|----------|---------|-------------|-------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| | | | | | | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| S35121-01G/E - Final Settling Tank Rehabilitation | | | | | | | | | | | | | | | | | | |
| Construction Contract | | | | | | | | | | | | | | | | | | |
| Award / NTP - Final Tank Rehabilitation | 64 | 0 | 21-Aug-13 A | 23-Oct-13 A | 100 | | | | | | | | | | | | | |
| Construction - Final Tank Rehabilitation | 730 | 0 | 28-Oct-13 A | 13-May-16 A | 100 | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Final Tank Rehabilitation | 30 | 0 | 21-Aug-13 A | 09-Sep-13 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - Final Tank Rehabilitation | 30 | 0 | 10-Sep-13 A | 10-Feb-14 A | 100 | | | | | | | | | | | | | |
| S35121-03G - Raw Sewage Pumping Facility | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Raw Sewage Pumping Facility | 29 | 0 | 01-Feb-19 A | 01-Mar-19 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - Raw Sewage Pumping Facility | 180 | 153 | 02-Mar-19 A | 31-May-20 | 15 | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Finalize Technical Memorandum - Influent Screens & RPS | 45 | 0 | 21-Apr-14 A | 30-Jun-14 A | 100 | | | | | | | | | | | | | |
| Preliminary Design - Raw Sewage Pumping Facility | 88 | 0 | 01-Jul-14 A | 23-Feb-15 A | 100 | | | | | | | | | | | | | |
| RFP / Advertise Final Design - Raw Sewage Pumping Facility | 29 | 0 | 27-Feb-15 A | 27-Mar-15 A | 100 | | | | | | | | | | | | | |
| Award / NTP Final Design - Raw Sewage Pumping Facility | 90 | 0 | 30-Mar-15 A | 01-Mar-16 A | 100 | | | | | | | | | | | | | |
| Final Design - Raw Sewage Pumping Facility | 210 | 0 | 01-Mar-16 A | 26-Sep-16 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Raw Sewage Pumping Facility | 1 | 0 | 01-Feb-19 A | 01-Feb-19 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Raw Sewage Pumping Facility | 29 | 0 | 01-Feb-19 A | 08-Mar-19 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Raw Sewage Pumping Facility | 1 | 0 | 12-Mar-19 A | 12-Mar-19 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Raw Sewage Pumping Facility | 180 | 153 | 13-Mar-19 A | 31-May-20 | 15 | | | | | | | | | | | | | |
| Construction - Raw Sewage Pumping Facility | 899 | 899 | 31-May-20 | 15-Nov-22* | 0 | | | | | | | | | | | | | |
| S35121-09G - Sludge Dewatering | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Dewatering Demo & Improvement | 22 | 0 | 04-Apr-14 A | 25-Apr-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - Dewatering Demo & Improvement | 90 | 0 | 29-Apr-14 A | 22-Sep-14 A | 100 | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Finalize Technical Memorandum - Dewatering | 45 | 0 | 12-Aug-13 A | 22-Nov-13 A | 100 | | | | | | | | | | | | | |
| Preliminary Design - Dewatering | 85 | 0 | 26-Sep-13 A | 31-Dec-13 A | 100 | | | | | | | | | | | | | |
| RFP / Advertise Final Design - Dewatering | 16 | 0 | 10-Jan-14 A | 07-Feb-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP Final Design - Dewatering | 80 | 0 | 08-Feb-14 A | 07-Jul-14 A | 100 | | | | | | | | | | | | | |
| Final Design - Dewatering | 200 | 0 | 07-Jul-14 A | 03-Apr-15 A | 100 | | | | | | | | | | | | | |
| Centrifuge Pilot Testing | | | | | | | | | | | | | | | | | | |
| Alfa Laval Centrifuge Pilot | 5 | 0 | 02-Jun-14 A | 11-Jun-14 A | 100 | | | | | | | | | | | | | |
| GEA Westfalia Centrifuge Pilot | 5 | 0 | 23-Jun-14 A | 27-Jun-14 A | 100 | | | | | | | | | | | | | |
| Andritz Centrifuge Pilot | 5 | 0 | 07-Jul-14 A | 11-Jul-14 A | 100 | | | | | | | | | | | | | |
| Flottweg Centrifuge Pilot | 5 | 0 | 14-Jul-14 A | 18-Jul-14 A | 100 | | | | | | | | | | | | | |
| Centrisys Centrifuge Pilot | 5 | 0 | 21-Jul-14 A | 25-Jul-14 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Dewatering | 7 | 0 | 03-Apr-15 A | 09-Apr-15 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Dewatering | 29 | 0 | 10-Apr-15 A | 15-May-15 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Dewatering | 1 | 0 | 19-May-15 A | 19-May-15 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Dewatering | 90 | 0 | 20-May-15 A | 07-Dec-15 A | 100 | | | | | | | | | | | | | |
| Construction - Dewatering | 913 | 0 | 07-Dec-15 A | 21-May-19 A | 100 | | | | | | | | | | | | | |
| S35121-09R - Sludge Dewatering Demolition | | | | | | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| 100% Design - Dewatering Demolition | 89 | 0 | 02-Jan-14 A | 31-Mar-14 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Dewatering Demolition | 7 | 0 | 01-Apr-14 A | 03-Apr-14 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Dewatering Demolition | 29 | 0 | 04-Apr-14 A | 09-May-14 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Dewatering Demolition | 1 | 0 | 13-May-14 A | 13-May-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Dewatering Demolition | 90 | 0 | 14-May-14 A | 22-Sep-14 A | 100 | | | | | | | | | | | | | |
| Construction - Dewatering Demolition | 180 | 0 | 22-Sep-14 A | 20-Mar-15 A | 100 | | | | | | | | | | | | | |

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



| Activity Name | Orig Dur | Rem Dur | Start | Finish | % Comp | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 19 |
|--|----------|---------|-------------|-------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| | | | | | | 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-19 A | 01-Mar-19 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - Effluent Screening & Disinfection | 180 | 153 | 02-Mar-19 A | 31-May-20 | 15 | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Finalize Technical Memorandum - Effluent Screening & Disinfection | 45 | 0 | 15-Nov-13 A | 13-Feb-14 A | 100 | | | | | | | | | | | | | |
| Prepare Design RFP - Effluent Screening & Disinfection | 85 | 0 | 30-Dec-13 A | 29-Jan-16 A | 100 | | | | | | | | | | | | | |
| RFP / Advertise Final Design - Effluent Screening & Disinfection | 29 | 0 | 29-Jan-16 A | 26-Feb-16 A | 100 | | | | | | | | | | | | | |
| Award / NTP Final Design - Effluent Screening & Disinfection | 90 | 0 | 06-May-16 A | 09-Jan-17 A | 100 | | | | | | | | | | | | | |
| Final Design - Effluent Screening & Disinfection | 300 | 0 | 09-Jan-17 A | 05-Jan-18 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Effluent Screening & Disinfection | 7 | 0 | 01-Jul-18 A | 07-Jul-18 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Effluent Screening & Disinfection | 29 | 0 | 13-Jul-18 A | 10-Aug-18 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Effluent Screening & Disinfection | 1 | 0 | 14-Aug-18 A | 14-Aug-18 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Effluent Screening & Disinfection | 180 | 153 | 15-Aug-18 A | 31-May-20 | 15 | | | | | | | | | | | | | |
| Construction - Effluent Screening & Disinfection | 784 | 784 | 31-May-20 | 23-Jul-22* | 0 | | | | | | | | | | | | | |
| S35121-12G - Effluent Pumping Facility Improvements | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Effluent Tide PB | 29 | 0 | 01-May-15 A | 29-May-15 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - Effluent Tide PB | 90 | 0 | 30-May-15 A | 24-Aug-17 A | 100 | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Finalize Technical Memorandum - Effluent Tide PB | 45 | 0 | 12-Aug-13 A | 22-Nov-13 A | 100 | | | | | | | | | | | | | |
| Preliminary Design - Effluent Tide PB | 85 | 0 | 26-Sep-13 A | 27-Feb-14 A | 100 | | | | | | | | | | | | | |
| RFP / Advertise Final Design - Effluent Tide PB | 30 | 0 | 28-Feb-14 A | 28-Mar-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP Final Design - Effluent Tide PB | 90 | 0 | 31-Mar-14 A | 08-Dec-14 A | 100 | | | | | | | | | | | | | |
| Final Design - Effluent Tide PB | 210 | 0 | 08-Dec-14 A | 07-Jul-15 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Effluent Tide PB | 7 | 0 | 08-Jul-15 A | 14-Jul-15 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Effluent Tide PB | 29 | 0 | 31-Jul-15 A | 11-Sep-15 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Effluent Tide PB | 1 | 0 | 15-Sep-15 A | 15-Sep-15 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Effluent Tide PB | 90 | 0 | 16-Sep-15 A | 24-Aug-17 A | 100 | | | | | | | | | | | | | |
| Construction - Effluent Pumping Facility Improvements | 820 | 135 | 24-Aug-17 A | 13-May-20* | 84 | | | | | | | | | | | | | |
| S35121-13E - Phase E1 Electrical Distribution Systems Improvements | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Phase E1 EDS | 30 | 0 | 02-Jan-14 A | 24-Jan-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - Phase E1 EDS | 90 | 0 | 25-Jan-14 A | 07-Jul-14 A | 100 | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Phase E1 Design | 119 | 0 | 15-Aug-13 A | 11-Dec-13 A | 100 | | | | | | | | | | | | | |
| Finalize Technical Memorandum - Phase 1 EDS | 45 | 0 | 12-Aug-13 A | 03-Jan-14 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Phase E1 EDS | 7 | 0 | 12-Dec-13 A | 19-Dec-13 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Phase E1 EDS | 30 | 0 | 20-Dec-13 A | 31-Jan-14 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Phase E1 EDS | 1 | 0 | 06-Feb-14 A | 06-Feb-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Phase E1 EDS | 76 | 0 | 07-Feb-14 A | 27-May-14 A | 100 | | | | | | | | | | | | | |
| Construction - Phase E1 EDS | 670 | 0 | 27-May-14 A | 19-Oct-16 A | 100 | | | | | | | | | | | | | |
| S35121-14E - Phase E2 Unit Substation No. 2 & Electrical Distribution | | | | | | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Phase E2 Design - EDS - USS No. 2 | 155 | 0 | 04-Apr-14 A | 18-Aug-14 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - EDS Phase E2 - USS No. 2 | 7 | 0 | 21-Aug-14 A | 27-Aug-14 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - EDS Phase E2 - USS No. 2 | 29 | 0 | 29-Aug-14 A | 10-Oct-14 A | 100 | | | | | | | | | | | | | |
| Bid Opening - EDS Phase E2 - USS No. 2 | 1 | 0 | 14-Oct-14 A | 14-Oct-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP - EDS Phase E2 - USS No. 2 | 90 | 0 | 15-Oct-14 A | 11-May-15 A | 100 | | | | | | | | | | | | | |
| Construction - Phase E2 - USS No. 2 | 660 | 0 | 11-May-15 A | 29-Sep-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 | 15 |
|---|----------|---------|-------------|-------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| | | | | | | 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 | 168 | 05-Oct-15 A | 15-Jun-20* | 85 | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 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 | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Phase E4 Electrical Utility Connections | 29 | 29 | 14-May-20 | 11-Jun-20 | 0 | | | | | | | | ■ | | | | | |
| Award / NTP CM Services - Phase E4 Electrical Utility Connections | 180 | 180 | 12-Jun-20 | 08-Dec-20 | 0 | | | | | | | | ■ | | | | | |
| 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 | 4 | 09-Nov-18 A | 03-Jan-20 | 97 | | | | | | | | | | | | | |
| Final Design - Phase E4 Electrical Utility Connections | 180 | 180 | 04-Jan-20 | 01-Jul-20 | 0 | | | | | | | | | | | | | |
| PSE&G Coordination | 5 | 952 | 12-Aug-13 A | 08-Aug-22 | 0 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Phase E4 Electrical Utility Connections | 7 | 7 | 02-Jul-20 | 08-Jul-20 | 0 | | | | | | | | | | | | | |
| Bid / Advertise - Phase E4 Electrical Utility Connections | 29 | 29 | 10-Jul-20 | 07-Aug-20 | 0 | | | | | | | | | | | | | |
| Bid Opening - Phase E4 Electrical Utility Connections | 1 | 1 | 11-Aug-20 | 11-Aug-20 | 0 | | | | | | | | | | | | | |
| Award / NTP - Phase E4 Electrical Utility Connections | 180 | 180 | 12-Aug-20 | 07-Feb-21 | 0 | | | | | | | | | | | | | |
| Construction - Phase E4 Electrical Utility Connections | 548 | 548 | 07-Feb-21 | 08-Aug-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 | 717 | 18-Dec-19 A | 16-Dec-21* | 2 | | | | | | | | | | | | | |

■ 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 | 19 |
|--|----------|---------|-------------|-------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| | | | | | | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| S35121-16P - Heating Hot Water Piping Permanent System | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Heating Hot Water Piping Permanent System | 29 | 29 | 09-Aug-20 | 06-Sep-20 | 0 | | | | | | | | | | | | | |
| Award / NTP CM Services - Heating Hot Water Piping Permanent System | 190 | 190 | 07-Sep-20 | 15-Mar-21 | 0 | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Preliminary Design - Heating Hot Water Piping Permanent System | 90 | 0 | 02-Nov-15 A | 09-Sep-16 A | 100 | | | | | | | | | | | | | |
| RFP / Advertise - Final Design - Heating Hot Water Piping Permanent System | 29 | 0 | 19-Oct-18 A | 16-Nov-18 A | 100 | | | | | | | | | | | | | |
| Award / NTP Final Design - Heating Hot Water Piping Permanent System | 159 | 42 | 16-Nov-18 A | 10-Feb-20 | 74 | | | | | | | | | | | | | |
| Final Design - Heating Hot Water Piping Permanent System | 210 | 210 | 10-Feb-20 | 06-Sep-20 | 0 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Hot/Chilled Water System Upgrades | 7 | 7 | 07-Sep-20 | 13-Sep-20 | 0 | | | | | | | | | | | | | |
| Bid / Advertise - Heating Hot Water Piping Permanent System | 29 | 29 | 16-Sep-20 | 14-Oct-20 | 0 | | | | | | | | | | | | | |
| Bid Opening - Heating Hot Water Piping Permanent System | 1 | 1 | 18-Oct-20 | 18-Oct-20 | 0 | | | | | | | | | | | | | |
| Award / NTP - Heating Hot Water Piping Permanent System | 180 | 180 | 19-Oct-20 | 16-Apr-21 | 0 | | | | | | | | | | | | | |
| Construction - Heating Hot Water Piping Permanent System | 730 | 730 | 16-Apr-21 | 15-Apr-23* | 0 | | | | | | | | | | | | | |
| S35121-16TR - Vehicle Fueling & Tanks Reconstruction | | | | | | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Design - Vehicle Fueling | 53 | 0 | 10-Mar-14 A | 02-May-14 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Vehicle Fueling | 7 | 0 | 02-May-14 A | 08-May-14 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Vehicle Fueling | 29 | 0 | 09-May-14 A | 06-Jun-14 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Vehicle Fueling | 1 | 0 | 10-Jun-14 A | 10-Jun-14 A | 100 | | | | | | | | | | | | | |
| Re-Bid / Advertise - Vehicle Fueling | 29 | 0 | 27-Mar-15 A | 24-Apr-15 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Vehicle Fueling | 1 | 0 | 28-Apr-15 A | 28-Apr-15 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Vehicle Fueling | 90 | 0 | 29-Apr-15 A | 12-Jun-16 A | 100 | | | | | | | | | | | | | |
| Construction - Vehicle Fueling | 274 | 0 | 13-Jun-16 A | 30-Jan-18 A | 100 | | | | | | | | | | | | | |
| S35121-16V - Dechlorination Vault Storm Mitigation | | | | | | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Design - Dechlor Sample Vault Hardening | 180 | 0 | 27-Mar-15 A | 22-Oct-15 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Dechlor Sample Vault Hardening | 7 | 0 | 23-Oct-15 A | 29-Oct-15 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Dechlor Sample Vault Hardening | 36 | 0 | 30-Oct-15 A | 04-Dec-15 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Dechlor Sample Vault Hardening | 1 | 0 | 08-Dec-15 A | 08-Dec-15 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Dechlor Sample Vault Hardening | 90 | 0 | 12-Dec-15 A | 11-May-16 A | 100 | | | | | | | | | | | | | |
| Construction - Dechlor Sample Vault Hardening | 270 | 0 | 11-May-16 A | 11-Aug-17 A | 100 | | | | | | | | | | | | | |
| S35121-17G - Perimeter Flood Protection | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Perimeter Flood Protection | 30 | 0 | 10-Jan-14 A | 07-Feb-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - Perimeter Flood Protection | 90 | 0 | 08-Feb-14 A | 30-Jun-14 A | 100 | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Geotech Borings - Perimeter Flood Protection | 85 | 0 | 12-Aug-13 A | 17-Dec-13 A | 100 | | | | | | | | | | | | | |
| Permitting (EAS) - Perimeter Flood Protection | 125 | 0 | 12-Aug-13 A | 17-Dec-13 A | 100 | | | | | | | | | | | | | |
| Berm Design - Perimeter Flood Protection | 83 | 0 | 26-Sep-13 A | 17-Dec-13 A | 100 | | | | | | | | | | | | | |
| Finalize Technical Memorandum - Perimeter Flood Protection | 45 | 0 | 12-Aug-13 A | 17-Dec-13 A | 100 | | | | | | | | | | | | | |
| Public Review/Comment Period | 30 | 0 | 17-Dec-13 A | 16-Jan-14 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Perimeter Flood Protection | 7 | 0 | 17-Jan-14 A | 23-Jan-14 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Perimeter Flood Protection | 29 | 0 | 24-Jan-14 A | 14-Mar-14 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Perimeter Flood Protection | 1 | 0 | 18-Mar-14 A | 18-Mar-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Perimeter Flood Protection | 76 | 0 | 19-Mar-14 A | 27-May-14 A | 100 | | | | | | | | | | | | | |
| Eastern Park Open | 0 | 0 | | 07-Oct-15 A | 100 | | | | | | | | | | | | | |
| Construction - Perimeter Flood Protection | 740 | 0 | 27-May-14 A | 09-Jun-17 A | 100 | | | | | | | | | | | | | |
| S35121-18G - Flood Protection Phase 1 Stormwater Pumping Stations | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Flood Protection Phase 1 Stormwater PS | 29 | 0 | 31-Jul-15 A | 28-Aug-15 A | 100 | | | | | | | | | | | | | |

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

Bay Park Master Schedule 191231

Master Schedule

As of 31-Dec-19

| Activity Name | Orig Dur | Rem Dur | Start | Finish | % Comp | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 19 |
|---|----------|---------|-------------|-------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| | | | | | | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Award / NTP CM Services - Flood Protection Phase 1 Stormwater PS | 90 | 0 | 29-Aug-15 A | 17-Jun-16 A | 100 | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Preliminary Design Flood Protection Phase 1 Stormwater PS | 97 | 0 | 18-Dec-13 A | 17-Apr-14 A | 100 | | | | | | | | | | | | | |
| RFP / Advertise Final Design Flood Protection Phase 1 Stormwater PS | 29 | 0 | 18-Apr-14 A | 16-May-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP Final Design Flood Protection Phase 1 Stormwater PS | 90 | 0 | 17-May-14 A | 10-Nov-14 A | 100 | | | | | | | | | | | | | |
| Final Design Flood Protection Phase 1 Stormwater PS | 210 | 0 | 10-Nov-14 A | 28-Aug-15 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Flood Protection Phase 1 Stormwater PS | 7 | 0 | 28-Aug-15 A | 03-Sep-15 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Flood Protection Phase 1 Stormwater PS | 29 | 0 | 04-Sep-15 A | 02-Oct-15 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Flood Protection Phase 1 Stormwater PS | 1 | 0 | 06-Oct-15 A | 06-Oct-15 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Flood Protection Phase 1 Stormwater PS | 90 | 0 | 30-Sep-15 A | 31-May-16 A | 100 | | | | | | | | | | | | | |
| Construction - Flood Protection Phase 1 Stormwater PS | 760 | 0 | 31-May-16 A | 24-Jun-19 A | 100 | | | | | | | | | | | | | |
| S35121-18S - Flood Protection Phase 2 Stormwater Green Infrastructure | | | | | | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Preliminary Design - Flood Protection Phase 2 Stormwater GI | 96 | 0 | 31-Jan-16 A | 26-May-16 A | 100 | | | | | | | | | | | | | |
| RFP / Advertise - Final Design Flood Protection Phase 2 Stormwater GI | 29 | 0 | 27-May-16 A | 24-Jun-16 A | 100 | | | | | | | | | | | | | |
| S35123-L37 - Miscellaneous Storm Repairs, Mitigation & Site Restoration | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Misc Storm Repairs, Mitigation & Restoration | 29 | 29 | 17-Apr-21 | 15-May-21 | 0 | | | | | | | | | | | | | |
| Award / NTP CM Services - Misc Storm Repairs, Mitigation & Restoration | 180 | 180 | 16-May-21 | 11-Nov-21 | 0 | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Conceptual Design - Misc Storm Repairs, Mitigation & Site Restoration | 90 | 46 | 05-Jul-19 A | 14-Feb-20 | 49 | | | | | | | | | | | | | |
| RFP / Advertise - Final Design - Misc Storm Repairs, Mitigation & Site Restoration | 29 | 29 | 15-Feb-20 | 14-Mar-20 | 0 | | | | | | | | | | | | | |
| Award / NTP Final Design - Misc Storm Repairs, Mitigation & Site Restoration | 180 | 180 | 15-Mar-20 | 10-Sep-20 | 0 | | | | | | | | | | | | | |
| Final Design - Misc Storm Repairs, Mitigation & Site Restoration | 270 | 270 | 10-Sep-20 | 06-Jun-21 | 0 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Misc Storm Repairs, Mitigation & Site Restor | 7 | 7 | 06-Jun-21 | 12-Jun-21 | 0 | | | | | | | | | | | | | |
| Bid / Advertise - Misc Storm Repairs, Mitigation & Site Restoration | 29 | 29 | 13-Jun-21 | 11-Jul-21 | 0 | | | | | | | | | | | | | |
| Bid Opening - Misc Storm Repairs, Mitigation & Site Restoration | 1 | 1 | 15-Jul-21 | 15-Jul-21 | 0 | | | | | | | | | | | | | |
| Award / NTP - Misc Storm Repairs, Mitigation & Site Restoration | 180 | 180 | 16-Jul-21 | 11-Jan-22 | 0 | | | | | | | | | | | | | |
| Construction - Misc Storm Repairs, Mitigation & Site Restoration | 731 | 731 | 11-Jan-22 | 11-Jan-24* | 0 | | | | | | | | | | | | | |
| S3B119-06G - Bay Park STP Heating Hot Water Piping Temporary System | | | | | | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Final Design - Heating Hot Water Piping Temporary System | 90 | 0 | 01-May-15 A | 17-Jun-15 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Heating Hot Water Piping Temporary System | 7 | 0 | 12-Jun-15 A | 18-Jun-15 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Heating Hot Water Piping Temporary System | 8 | 0 | 19-Jun-15 A | 26-Jun-15 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Heating Hot Water Piping Temporary System | 1 | 0 | 30-Jun-15 A | 30-Jun-15 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Heating Hot Water Piping Temporary System | 13 | 0 | 01-Jul-15 A | 13-Jul-15 A | 100 | | | | | | | | | | | | | |
| Construction - Heating Hot Water Piping Temporary System | 124 | 0 | 13-Jul-15 A | 04-Aug-16 A | 100 | | | | | | | | | | | | | |
| S35121-06G - Aeration Blower Facility | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Aeration Blower Facility | 29 | 29 | 15-Apr-21 | 13-May-21 | 0 | | | | | | | | | | | | | |
| Award / NTP CM Services - Aeration Blower Facility | 180 | 180 | 14-May-21 | 09-Nov-21 | 0 | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Preliminary Design - Aeration Blower Facility | 180 | 0 | 01-Nov-16 A | 15-Dec-16 A | 100 | | | | | | | | | | | | | |
| Resolve Power Availability Issue for Aeration Blower Building / PSEG | 147 | 69 | 01-Jul-18 A | 08-Mar-20 | 53 | | | | | | | | | | | | | |
| RFP / Advertise - Final Design - Aeration Blower Facility | 29 | 29 | 09-Mar-20 | 06-Apr-20 | 0 | | | | | | | | | | | | | |
| Award / NTP Final Design - Aeration Blower Facility | 180 | 180 | 07-Apr-20 | 03-Oct-20 | 0 | | | | | | | | | | | | | |
| Final Design - Aeration Blower Facility | 240 | 240 | 04-Oct-20 | 31-May-21 | 0 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Aeration Blower Facility | 7 | 7 | 03-Jun-21 | 09-Jun-21 | 0 | | | | | | | | | | | | | |
| Bid / Advertise - Aeration Blower Facility | 29 | 29 | 11-Jun-21 | 09-Jul-21 | 0 | | | | | | | | | | | | | |
| Bid Opening - Aeration Blower Facility | 1 | 1 | 13-Jul-21 | 13-Jul-21 | 0 | | | | | | | | | | | | | |
| Award / NTP - Aeration Blower Facility | 180 | 180 | 14-Jul-21 | 09-Jan-22 | 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 | 19 |
|--|----------|---------|-------------|-------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| | | | | | | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Construction - Aeration Blower Facility | 1095 | 1095 | 09-Jan-22 | 07-Jan-25* | 0 | | | | | | | | | | | | | |
| S3P311 - Pump Stations | | | | | | | | | | | | | | | | | | |
| S3P311-01G - Dock Place & Southland Drive | | | | | | | | | | | | | | | | | | |
| Construction | | | | | | | | | | | | | | | | | | |
| Construction - Dock Place & Southland Drive Pump Stations | 240 | 0 | 28-Oct-13 A | 31-Oct-14 A | 100 | | | | | | | | | | | | | |
| S3P311-02G - Cedar, Roosevelt, Whitewood, Biltmore & Alhambra | | | | | | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Finalize Technical Memorandum - Pump Station 2 | 140 | 0 | 12-Aug-13 A | 22-Nov-13 A | 100 | | | | | | | | | | | | | |
| Preliminary Design - Pump Station 2 | 67 | 0 | 23-Nov-13 A | 28-Jan-14 A | 100 | | | | | | | | | | | | | |
| RFP / Advertise Final Design - Pump Station 2 | 30 | 0 | 31-Jan-14 A | 28-Feb-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP Final Design - Pump Station 2 | 90 | 0 | 01-Mar-14 A | 23-Sep-14 A | 100 | | | | | | | | | | | | | |
| Final Design - Pump Station 2 | 90 | 0 | 23-Sep-14 A | 26-Mar-15 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Pump Station 2 | 7 | 0 | 27-Mar-15 A | 09-Apr-15 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Pump Station 2 | 29 | 0 | 10-Apr-15 A | 08-May-15 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Pump Station 2 | 1 | 0 | 12-May-15 A | 12-May-15 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Pump Station 2 | 90 | 0 | 13-May-15 A | 03-Mar-16 A | 100 | | | | | | | | | | | | | |
| Construction - Pump Station 2 | 548 | 0 | 03-Mar-16 A | 12-Jan-18 A | 100 | | | | | | | | | | | | | |
| S3P311-03G - Wantagh, Newbridge, Merrick & Ray | | | | | | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Finalize Technical Memorandum - Pump Station 3 | 140 | 0 | 12-Aug-13 A | 22-Nov-13 A | 100 | | | | | | | | | | | | | |
| Preliminary Design - Pump Station 3 | 67 | 0 | 23-Nov-13 A | 28-Jan-14 A | 100 | | | | | | | | | | | | | |
| RFP / Advertise Final Design - Pump Station 3 | 30 | 0 | 31-Jan-14 A | 28-Feb-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP Final Design - Pump Station 3 | 90 | 0 | 01-Mar-14 A | 23-Sep-14 A | 100 | | | | | | | | | | | | | |
| Final Design - Pump Station 3 | 90 | 0 | 23-Sep-14 A | 13-Apr-15 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Pump Station 3 | 7 | 0 | 14-Apr-15 A | 30-Apr-15 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Pump Station 3 | 29 | 0 | 01-May-15 A | 29-May-15 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Pump Station 3 | 1 | 0 | 02-Jun-15 A | 02-Jun-15 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Pump Station 3 | 90 | 0 | 03-Jun-15 A | 03-Mar-16 A | 100 | | | | | | | | | | | | | |
| Construction - Pump Station 3 | 540 | 0 | 03-Mar-16 A | 12-Feb-18 A | 100 | | | | | | | | | | | | | |
| S3P311-02M - PS2 & PS3 Construction Management | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - PS2 & PS3 | 29 | 0 | 03-Oct-14 A | 31-Oct-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - PS2 & PS3 | 90 | 0 | 01-Nov-14 A | 03-Mar-16 A | 100 | | | | | | | | | | | | | |
| S3P311-04G - Felix, Fox, Northern & Grand | | | | | | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Finalize Technical Memorandum - Pump Station 4 | 140 | 0 | 12-Aug-13 A | 22-Nov-13 A | 100 | | | | | | | | | | | | | |
| Preliminary Design - Pump Station 4 | 67 | 0 | 23-Dec-13 A | 27-Feb-14 A | 100 | | | | | | | | | | | | | |
| RFP / Advertise Final Design - Pump Station 4 | 30 | 0 | 28-Feb-14 A | 28-Mar-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP Final Design - Pump Station 4 | 90 | 0 | 30-Mar-14 A | 17-Sep-14 A | 100 | | | | | | | | | | | | | |
| Final Design - Pump Station 4 | 90 | 0 | 17-Sep-14 A | 13-Mar-15 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Pump Station 4 | 7 | 0 | 13-Mar-15 A | 19-Mar-15 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Pump Station 4 | 29 | 0 | 20-Mar-15 A | 17-Apr-15 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Pump Station 4 | 1 | 0 | 21-Apr-15 A | 21-Apr-15 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Pump Station 4 | 90 | 0 | 22-Apr-15 A | 15-Nov-15 A | 100 | | | | | | | | | | | | | |
| Construction - Pump Station 4 | 420 | 0 | 16-Nov-15 A | 29-Aug-17 A | 100 | | | | | | | | | | | | | |
| S3P311-05G - Millar, Mott, Long Beach, Royal & Lido | | | | | | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Finalize Technical Memorandum - Pump Station 5 | 140 | 0 | 12-Aug-13 A | 22-Nov-13 A | 100 | | | | | | | | | | | | | |
| Preliminary Design - Pump Station 5 | 67 | 0 | 23-Jan-14 A | 27-Mar-14 A | 100 | | | | | | | | | | | | | |
| RFP / Advertise Final Design - Pump Station 5 | 30 | 0 | 28-Mar-14 A | 25-Apr-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP Final Design - Pump Station 5 | 94 | 0 | 26-Apr-14 A | 01-Dec-14 A | 100 | | | | | | | | | | | | | |

█ 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 | 19 |
|---|----------|---------|-------------|-------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| | | | | | | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Final Design - Pump Station 5 | 90 | 0 | 01-Dec-14 A | 01-May-15 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Pump Station 5 | 7 | 0 | 02-May-15 A | 21-May-15 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Pump Station 5 | 29 | 0 | 22-May-15 A | 19-Jun-15 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Pump Station 5 | 1 | 0 | 23-Jun-15 A | 23-Jun-15 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Pump Station 5 | 90 | 0 | 24-Jun-15 A | 15-Nov-15 A | 100 | | | | | | | | | | | | | |
| Construction - Pump Station 5 | 540 | 0 | 16-Nov-15 A | 29-Aug-17 A | 100 | | | | | | | | | | | | | |
| S3P311-04M - PS4 & PS5 Construction Management | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - PS4 & PS5 | 29 | 0 | 07-Nov-14 A | 05-Jan-15 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - PS4 & PS5 | 90 | 0 | 06-Jan-15 A | 16-Nov-15 A | 100 | | | | | | | | | | | | | |
| S3P311-06G - Ocean, Mill, Woodmere & Longacre | | | | | | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Finalize Technical Memorandum - Pump Station 6 | 140 | 0 | 12-Aug-13 A | 22-Nov-13 A | 100 | | | | | | | | | | | | | |
| Preliminary Design - Pump Station 6 | 67 | 0 | 23-Feb-14 A | 25-Apr-14 A | 100 | | | | | | | | | | | | | |
| RFP / Advertise Final Design - Pump Station 6 | 29 | 0 | 09-May-14 A | 30-May-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP Final Design - Pump Station 6 | 90 | 0 | 31-May-14 A | 15-Apr-15 A | 100 | | | | | | | | | | | | | |
| Final Design - Pump Station 6 | 90 | 0 | 15-Apr-15 A | 17-Sep-15 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Pump Station 6 | 7 | 0 | 18-Sep-15 A | 24-Sep-15 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Pump Station 6 | 29 | 0 | 25-Sep-15 A | 23-Oct-15 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Pump Station 6 | 1 | 0 | 27-Oct-15 A | 27-Oct-15 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Pump Station 6 | 90 | 0 | 28-Oct-15 A | 15-Mar-17 A | 100 | | | | | | | | | | | | | |
| Construction - Pump Station 6 | 550 | 0 | 15-Mar-17 A | 17-Aug-18 A | 100 | | | | | | | | | | | | | |
| S3P311-07G - Inwood, Doughty, Bayview & Roslyn | | | | | | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Finalize Technical Memorandum - Pump Station 7 | 140 | 0 | 12-Aug-13 A | 22-Nov-13 A | 100 | | | | | | | | | | | | | |
| Preliminary Design - Pump Station 7 | 67 | 0 | 23-Mar-14 A | 28-May-14 A | 100 | | | | | | | | | | | | | |
| RFP / Advertise Final Design - Pump Station 7 | 29 | 0 | 30-May-14 A | 27-Jun-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP Final Design - Pump Station 7 | 90 | 0 | 28-Jun-14 A | 13-May-15 A | 100 | | | | | | | | | | | | | |
| Final Design - Pump Station 7 | 90 | 0 | 13-May-15 A | 16-Nov-15 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Pump Station 7 | 7 | 0 | 16-Nov-15 A | 19-Nov-15 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Pump Station 7 | 29 | 0 | 20-Nov-15 A | 18-Dec-15 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Pump Station 7 | 1 | 0 | 22-Dec-15 A | 22-Dec-15 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Pump Station 7 | 90 | 0 | 23-Dec-15 A | 15-Mar-17 A | 100 | | | | | | | | | | | | | |
| Construction - Pump Station 7 | 540 | 0 | 15-Mar-17 A | 13-May-19 A | 100 | | | | | | | | | | | | | |
| S3P311-06M - PS6 & PS7 Construction Management | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - PS6, PS7 & PS8 | 29 | 0 | 22-May-15 A | 19-Jun-15 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - PS6, PS7 & PS8 | 90 | 0 | 20-Jun-15 A | 15-Mar-17 A | 100 | | | | | | | | | | | | | |
| S3P311-08G - East Avenue | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - East Avenue Pump Station | 29 | 0 | 08-Mar-19 A | 05-Apr-19 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - East Avenue Pump Station | 180 | 214 | 06-Apr-19 A | 31-Jul-20 | 0 | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Prepare Flow Study & Technical Memorandum - Pump Station 8 | 27 | 0 | 18-Dec-15 A | 14-Jul-16 A | 100 | | | | | | | | | | | | | |
| RFP / Advertise - Pump Station 8 | 29 | 0 | 15-Jul-16 A | 12-Aug-16 A | 100 | | | | | | | | | | | | | |
| Award / NTP Final Design - Pump Station 8 | 90 | 0 | 13-Aug-16 A | 29-Mar-17 A | 100 | | | | | | | | | | | | | |
| Final Design - East Avenue Pump Station | 270 | 0 | 29-Mar-17 A | 23-Dec-17 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - East Avenue Pump Station | 7 | 0 | 24-Dec-17 A | 07-Mar-19 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - East Avenue Pump Station | 29 | 0 | 08-Mar-19 A | 05-Apr-19 A | 100 | | | | | | | | | | | | | |
| Bid Opening - East Avenue Pump Station | 1 | 0 | 09-Apr-19 A | 09-Apr-19 A | 100 | | | | | | | | | | | | | |
| Award / NTP - East Avenue Pump Station | 180 | 214 | 09-Apr-19 A | 31-Jul-20 | 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 | 19 |
|---|----------|---------|-------------|-------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| | | | | | | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Construction - East Avenue Pump Station | 540 | 540 | 31-Jul-20 | 21-Jan-22* | 0 | | | | | | | | | | | | | |
| S3P311-09G - Hempstead Wastewater Pumping Station | | | | | | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| RFP / Advertise Final Design - Hempstead Wastewater Pumping Station | 29 | 0 | 22-Nov-13 A | 20-Dec-13 A | 100 | | | | | | | | | | | | | |
| Award / NTP Final Design - Hempstead Wastewater Pumping Station | 90 | 0 | 21-Dec-13 A | 29-May-14 A | 100 | | | | | | | | | | | | | |
| Final Design - Hempstead Wastewater Pumping Station | 185 | 0 | 18-Jun-14 A | 24-Jun-15 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Hempstead Wastewater Pumping Station | 7 | 0 | 25-Jun-15 A | 30-Jun-15 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Hempstead Wastewater Pumping Station | 29 | 0 | 03-Jul-15 A | 14-Aug-15 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Hempstead Wastewater Pumping Station | 1 | 0 | 18-Aug-15 A | 18-Aug-15 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Hempstead Wastewater Pumping Station | 90 | 0 | 19-Aug-15 A | 25-Apr-16 A | 100 | | | | | | | | | | | | | |
| Construction - Hempstead Wastewater Pumping Station | 460 | 0 | 25-Apr-16 A | 22-Nov-19 A | 100 | | | | | | | | | | | | | |
| S3P311-09S - Hempstead Wastewater Force Main | | | | | | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| RFP / Advertise Final Design - Hempstead Wastewater Force Main | 29 | 0 | 22-Nov-13 A | 20-Dec-13 A | 100 | | | | | | | | | | | | | |
| Award / NTP Final Design - Hempstead Wastewater Force Main | 90 | 0 | 21-Dec-13 A | 29-May-14 A | 100 | | | | | | | | | | | | | |
| Final Design - Hempstead Wastewater Force Main | 185 | 0 | 18-Jun-14 A | 24-Jun-15 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Hempstead Wastewater Force Main | 7 | 0 | 25-Jun-15 A | 30-Jun-15 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Hempstead Wastewater Force Main | 29 | 0 | 03-Jul-15 A | 14-Aug-15 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Hempstead Wastewater Force Main | 1 | 0 | 18-Aug-15 A | 18-Aug-15 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Hempstead Wastewater Force Main | 90 | 0 | 19-Aug-15 A | 25-Apr-16 A | 100 | | | | | | | | | | | | | |
| Construction - Hempstead Wastewater Force Main | 450 | 0 | 25-Apr-16 A | 01-May-19 A | 100 | | | | | | | | | | | | | |
| S3P311-09M - Hempstead Wastewater Pumping Station & Force Main CM | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Hempstead Wastewater Pump Sta & FM | 29 | 0 | 17-Oct-14 A | 14-Nov-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - Hempstead Wastewater Pump Sta & FM | 90 | 0 | 15-Nov-14 A | 01-Feb-16 A | 100 | | | | | | | | | | | | | |
| S3P311-10G - Lawrence PS (STP) & Sage Lake PS | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Lawrence STP & Sage Lake PS | 28 | 0 | 25-Jan-16 A | 22-Feb-16 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - Lawrence STP & Sage Lake PS | 90 | 0 | 23-Feb-16 A | 22-Mar-17 A | 100 | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Preliminary Design - Lawrence STP & Sage Lake PS | 75 | 0 | 02-Jun-14 A | 12-Sep-14 A | 100 | | | | | | | | | | | | | |
| RFP / Advertise Final Design - Lawrence STP & Sage Lake PS | 29 | 0 | 12-Sep-14 A | 10-Oct-14 A | 100 | | | | | | | | | | | | | |
| Award / NTP Final Design - Lawrence STP & Sage Lake PS | 61 | 0 | 11-Oct-14 A | 15-Sep-15 A | 100 | | | | | | | | | | | | | |
| Final Design - Lawrence STP & Sage Lake PS | 180 | 0 | 15-Sep-15 A | 08-Mar-16 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Lawrence STP & Sage Lake PS | 7 | 0 | 09-Apr-16 A | 14-Apr-16 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Lawrence STP & Sage Lake PS | 29 | 0 | 15-Apr-16 A | 13-May-16 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Lawrence STP & Sage Lake PS | 1 | 0 | 17-May-16 A | 17-May-16 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Lawrence STP & Sage Lake PS | 90 | 0 | 18-May-16 A | 22-Mar-17 A | 100 | | | | | | | | | | | | | |
| Construction - Lawrence STP & Sage Lake PS | 550 | 0 | 22-Mar-17 A | 13-Aug-18 A | 100 | | | | | | | | | | | | | |
| S3P311-11G - Roslyn Village, Morgan Park & Shore Road | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Roslyn Village, Morgan Park & Shore Rd | 47 | 0 | 05-Oct-18 A | 02-Nov-18 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - Roslyn Village, Morgan Park & Shore Rd | 180 | 21 | 03-Nov-18 A | 20-Jan-20 | 88 | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Preliminary Design - Roslyn Village, Morgan Park & Shore Rd | 75 | 0 | 01-Mar-16 A | 16-Jun-16 A | 100 | | | | | | | | | | | | | |
| RFP / Advertise Final Design - Roslyn Village, Morgan Park & Shore Rd | 29 | 0 | 17-Jun-16 A | 15-Jul-16 A | 100 | | | | | | | | | | | | | |
| Award / NTP Final Design - Roslyn Village, Morgan Park & Shore Rd | 60 | 0 | 16-Jul-16 A | 02-Feb-17 A | 100 | | | | | | | | | | | | | |
| Final Design - Roslyn Village, Morgan Park & Shore Rd | 154 | 0 | 02-Feb-17 A | 02-Aug-17 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Roslyn Village, Morgan Park & Shore Rd | 7 | 0 | 13-Oct-17 A | 09-Nov-17 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Roslyn Village, Morgan Park & Shore Rd | 29 | 0 | 10-Nov-17 A | 08-Dec-17 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Roslyn Village, Morgan Park & Shore Rd | 1 | 0 | 12-Dec-17 A | 12-Dec-17 A | 100 | | | | | | | | | | | | | |

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

Bay Park Master Schedule 191231

Master Schedule

As of 31-Dec-19

| Activity Name | Orig Dur | Rem Dur | Start | Finish | % Comp | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 19 |
|--|----------|---------|-------------|-------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| | | | | | | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Award / NTP - Roslyn Village, Morgan Park & Shore Rd | 90 | 1 | 13-Dec-17 A | 20-Jan-20 | 99 | | | | | | | | | | | | | |
| Construction - Roslyn Village, Morgan Park & Shore Rd | 365 | 365 | 20-Jan-20 | 18-Jan-21* | 0 | | | | | | | | | | | | | |
| S80019-03GR - Cedar Point Lake (Doxey Brook) Pump Station | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Cedar Point Lake PS | 29 | 0 | 01-Dec-16 A | 23-Dec-16 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - Cedar Point Lake PS | 90 | 0 | 24-Dec-16 A | 03-Jan-18 A | 100 | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Final Design - Cedar Point Lake PS | 180 | 0 | 10-Feb-16 A | 28-Oct-16 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Cedar Point Lake PS | 7 | 0 | 29-Oct-16 A | 01-Dec-16 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Cedar Point Lake PS | 29 | 0 | 02-Dec-16 A | 06-Jan-17 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Cedar Point Lake PS | 1 | 0 | 10-Jan-17 A | 10-Jan-17 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Cedar Point Lake PS | 90 | 0 | 11-Jan-17 A | 03-Jan-18 A | 100 | | | | | | | | | | | | | |
| Construction - Cedar Point Lake PS | 540 | 52 | 03-Jan-18 A | 20-Feb-20* | 90 | | | | | | | | | | | | | |
| Nitrogen Reduction Projects | | | | | | | | | | | | | | | | | | |
| S35123-L38G - Sidestream Deammonification | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Sidestream Centrate Treatment | 29 | 0 | 28-Jul-17 A | 25-Aug-17 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - Sidestream Centrate Treatment | 90 | 0 | 26-Aug-17 A | 16-Dec-19 A | 100 | | | | | | | | | | | | | |
| RFP Process | | | | | | | | | | | | | | | | | | |
| Develop / Issue RFI - Sidestream Centrate Treatment | 60 | 0 | 30-Sep-14 A | 26-May-15 A | 100 | | | | | | | | | | | | | |
| RFI Response Period - Sidestream Centrate Treatment | 41 | 0 | 26-May-15 A | 07-Aug-15 A | 100 | | | | | | | | | | | | | |
| RFI Evaluation Period - Sidestream Centrate Treatment | 88 | 0 | 08-Aug-15 A | 29-Feb-16 A | 100 | | | | | | | | | | | | | |
| NCDPW Review & Award Sidestream Centrate Treatment | 120 | 0 | 01-Mar-16 A | 26-Sep-16 A | 100 | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Complete Technical Design Report | 60 | 0 | 27-Sep-16 A | 26-Nov-16 A | 100 | | | | | | | | | | | | | |
| Detailed Design - Sidestream Centrate Treatment | 275 | 0 | 27-Sep-16 A | 31-Oct-17 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Sidestream Centrate Treatment | 17 | 0 | 01-Nov-17 A | 16-Nov-17 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Sidestream Centrate Treatment | 29 | 0 | 17-Nov-17 A | 05-Jan-18 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Sidestream Centrate Treatment | 1 | 0 | 09-Jan-18 A | 09-Jan-18 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Sidestream Centrate Treatment - Canceled - Re-bid | 90 | 0 | 10-Jan-18 A | 23-Aug-18 A | 100 | | | | | | | | | | | | | |
| Re-Bid / Advertise - Sidestream Centrate Treatment | 29 | 0 | 24-Aug-18 A | 21-Sep-18 A | 100 | | | | | | | | | | | | | |
| Re-Bid Opening - Sidestream Centrate Treatment | 1 | 0 | 25-Sep-18 A | 25-Sep-18 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Sidestream Centrate Treatment | 180 | 1 | 26-Sep-18 A | 31-Dec-19 | 99 | | | | | | | | | | | | | |
| Construction - Sidestream Centrate Treatment | 730 | 730 | 31-Dec-19 | 29-Dec-21* | 0 | | | | | | | | | | | | | |
| S35123-L39G - Level 1 BNR Improvements | | | | | | | | | | | | | | | | | | |
| CM Contract | | | | | | | | | | | | | | | | | | |
| RFP / Advertise CM Services - Level 1 BNR Improvements | 31 | 0 | 29-Jul-16 A | 26-Aug-16 A | 100 | | | | | | | | | | | | | |
| Award / NTP CM Services - Level 1 BNR Improvements | 90 | 0 | 27-Aug-16 A | 05-Jul-17 A | 100 | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Design - Level 1 BNR Improvements | 120 | 0 | 30-Nov-15 A | 23-Sep-16 A | 100 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Level 1 BNR Improvements | 7 | 0 | 24-Sep-16 A | 29-Sep-16 A | 100 | | | | | | | | | | | | | |
| Bid / Advertise - Level 1 BNR Improvements | 29 | 0 | 30-Sep-16 A | 11-Nov-16 A | 100 | | | | | | | | | | | | | |
| Bid Opening - Level 1 BNR Improvements | 1 | 0 | 15-Nov-16 A | 15-Nov-16 A | 100 | | | | | | | | | | | | | |
| Award / NTP - Level 1 BNR Improvements | 90 | 0 | 16-Nov-16 A | 05-Jul-17 A | 100 | | | | | | | | | | | | | |
| Construction - Level 1 BNR Improvements | 913 | 92 | 05-Jul-17 A | 31-Mar-20* | 90 | | | | | | | | | | | | | |
| Long Beach WPCP Consolidation | | | | | | | | | | | | | | | | | | |
| S35109-01G - Long Beach Pump Station | | | | | | | | | | | | | | | | | | |
| Design Process | | | | | | | | | | | | | | | | | | |
| Pump Station Final Design - Long Beach Pump Station (PMJV) | 186 | 98 | 06-May-19 A | 06-Apr-20 | 47 | | | | | | | | | | | | | |
| Bid / Construction | | | | | | | | | | | | | | | | | | |
| County Prepare Bid for Advertisement - Long Beach Pump Station | 7 | 7 | 07-Apr-20 | 13-Apr-20 | 0 | | | | | | | | | | | | | |

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

