City of New York Department of Environmental Protection Bureau of Wastewater Treatment

CSO Order on Consent DEC Case # CO2-20110512-25, Modification to CO2-20000107-8

QUARTERLY PROGRESS REPORT

First Quarter 2016 (January 1 to March 31, 2016)

April 29, 2016

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1.0 Executive Summary

The City of New York (City), the New York City Department of Environmental Protection (DEP), and the New York State Department of Environmental Conservation (DEC) entered into the Combined Sewer Overflow Order on Consent (DEC Case # CO2-20000107-8) on January 14, 2005, as modified April 14, 2008, September 3, 2009, March 8, 2012, and March 26, 2015 (collectively, the "CSO Order"). Pursuant to the Order, the City is required to submit quarterly status reports to DEC (Quarterly Reports) describing actions taken toward achieving compliance with the Order during the prior three-month period. This Quarterly Report reports on DEP's actions taken between **January 1, 2016** and **March 31, 2016** toward complying with the Order's milestones.

Critical Events This Quarter

The following critical events occurred this quarter:

- 1. On January 4, 2016 DEC approved DEP's November 2, 2015 request to modify Appendix A milestone IX.F.2 Westchester Creek – Pugsley Parallel Interceptor – Final Design Completion Modification Request from June 2015 to December 2015.
- 2. On January 4, 2016 DEC approved DEP's October 30, 2015 request to modify milestone VIII.I.3 Newtown Creek Enhanced Aeration in East Branch and Upper Newtown Creek NTP to Construction from June 2015 to October 2015. NTP was issued to all NC-3 contractors on October 30, 2015.
- 3. On January 6, 2016 DEP submitted the Gowanus Canal LTCP and Superfund Modeling Peer-Review Panel Final Report.
- 4. On January 27, 2016 DEP submitted XII.I.3 Jamaica Bay 26th Ward HLSS Phase I Design Completion updated drainage plans.
- On January 11, 2016 DEP submitted XII.K.8 Jamaica Bay 26th Ward Preliminary Treatment Reliability Improvements – NTP Construction Improvements for 26W PSTs #1 and #5.
- 6. On January 27, 2016 DEC responded with comments to XII.K.10 Jamaica Bay 26W Update WWOP to 26th Ward WPCP.
- 7. On February 3, 2016 DEP submitted IV.A Paerdegat Basin CSO PCM Report
- 8. On February 10, 2016 DEC responded with comments to IX.F.2 Westchester Creek Pugsley Parallel Interceptor – Final Design Completion.
- 9. On February 16, 2016 DEP sent a letter documenting discussion between DEC and DEP in which it was agreed that DEP would proceed with demolition of the ammonia building at 26th Ward in order to perform work in furtherance of XII.K.9 Jamaica Bay CSO 26th Ward Preliminary Treatment Reliability Improvements Construction Completion for 26th W improvements to PSTs.
- 10. On February 29, 2016 DEC acknowledged DEP's notice of Force Majeure for XII.K.7 Jamaica Bay – 26th Ward WPCP – Construction Completion for High Level Main Sewage Pumps – Sink Hole Force Majeure letter dated December 30, 2015.

- 11. On March 2, 2016 DEC approved modification request for XIV.A.2 Wards Island Reconstruction of MSP – Construction Completion for extension of six months. The milestone will be December 31, 2017.
- 12. On March 2, 2016 DEC approved modification request for V.D.3 Flushing Bay Environmental Dredging – NTP. Extension of six months is approved, the milestone date is September 30, 2016.
- 13. On March 28, 2016 DEP submitted XII.K.10 Jamaica Bay CSO 26th Ward Preliminary Treatment Reliability Improvements – Update WWOP of 26W WPCP Wet Weather Performance Response to Comments.
- 14. On March 30, 2016 DEP submitted XII.I.4 Jamaica Bay CSO 26th Ward HLSS Phase I NTP Construction Certification of Milestone Completion.
- 15. On March 31, 2016 DEC accepted XII.I.4 Jamaica Bay 26Ward HLSS Phase 1 NTP to construction from DEP's March 30, 2016 letter.
- 16. On March 31, 2016 DEC approves DEP's addressed comments to XII.K.10 Jamaica Bay CSO – 26th Ward Preliminary Treatment Reliability Improvements – Update WWOP of 26W WPCP Wet Weather Performance response to DEC's January 27, 2016 comments.

Major Actions This Quarter

DEP continued to make progress in the planning, design and construction of its CSO facilities during this quarter, as documented in this report. As required by the Order, DEP and DEC held a Quarterly Progress Meeting on March 02, 2016 at the Hazen and Sawyer's Offices in New York, NY, to discuss issues related to the Order and to review milestones met during the last quarter.

Table 1 presents the milestones that occurred this quarter. For each milestone listed in Table 1 below, either met or postponed, DEP submitted timely written notification to DEC.

Major Actions Next Quarter

The following major actions are expected to occur between April and June 2016:

The next Quarterly Progress Meeting between DEC and DEP will be held on June 3, 2016 at Hazen and Sawyer's offices in New York, NY. Table 2 presents the status of the milestones for next quarter and Table 3 provides a list of outstanding modification requests and force majeure notices.

LOCATION / PROJECT AREA	ITEM DESCRIPTION	MILESTONE DATE	ACTION REQUIRED	STATUS
Jamaica Bay XII.K.8	26 th Ward WPCP Preliminary Treatment Reliability Improvements, NTP Construction Primary Settling Tank Work	January 31, 2016	None	Complete
Paerdegat Basin IV.A	Submit Post- Construction Monitoring Report	Proposed 2016 – CSO Order	None	Completed
Jamaica Bay XII.I.4	26 th Ward HLSS – Phase I – NTP Construction	March 31, 2016	None	Completed

Table 1 – Milestones Certified This Quarter (January - March 2016)

 Table 2 – Milestones Next Quarter (April – June 2016)

LOCATION / PROJECT AREA	ITEM DESCRIPTION	MILESTONE DATE	ACTION REQUIRED	STATUS
Coney Island Creek VII.E	LTCP Submittal	June 2016	Submit Approvable LTCP	On Schedule
Flushing Bay V.M.1	LTCP Submittal	June 2016	Submit Approvable LTCP	On Schedule
Jamaica Tribs VI.I.4	Bending Weirs	June 2016	Construction Completion	On Schedule
Jamaica Tribs VI.C.A (1)	Spring Creek Disinfection Pilot Project	June 2016	Commence Pilot Project	On Schedule

LOCATION/ PROJECT AREA	ITEM DESCRIPTION	ACTION(S)	REASON FOR ACTION(S)	MILESTONE DATE	STATUS
Jamaica Tributaries	Bending Weirs – Construction Completion	Notice of Force Majeure August 18, 2015	Sinkhole during construction	Construction Completion June 30, 2016	Sinkhole has been repaired.
Jamaica Tributaries	VI.H Parallel 48" Siphon / Interceptor	Notice of Force Majeure October 13, 2015	Work embargo by National Grid during low temperatures <25 degrees F	January, 2017	construction ongoing
Newtown Creek	VIII.K.4 Bending Weir / Floatables Control	Notice of Force Majeure October 9 , 2015	Subsurface obstructions at Q- 1 regulator site that were not identified during design phase	December, 2017	Construction ongoing
Jamaica Bay	XII.K.8 26 th Ward WWTP Preliminary Treatment Reliability Improvements	Notice of Force Majeure on December 30, 2015	Discovery of a void in a portion of an abandoned outfall structure	July, 2018	Construction ongoing

Table 3 – Outstanding Modification Requests and Force Majeure Notices

Changes from the previous reporting period are shown in **bold**.

2.0 Construction Contracts

The CSO Order contains milestones and schedules governing the planning, design and construction of DEP's Citywide CSO Program. Numerous CSO-related facilities will be constructed to reduce combined sewage discharges to the receiving waters surrounding the City. Table 4 **which** lists the construction contracts set forth in Appendix A of the 2012 modification of the Order that have been completed in fulfillment of its requirements – **has been removed from this report**. Table 5 below identifies, by percentage, the estimated amount of construction that has been performed on projects that are in progress.

WATERBODY	ITEM DESCRIPTION	NOTICE TO PROCEED	CONSTRUCTION COMPLETION	PROJECTED COMPLETION	% OF TIME ELAPSED	% OF CONSTRUCTION COMPLETED ⁽¹⁾
	Flushing Interceptor	TBD	TBD	-	-	-
	Divert Low-Lying Sewers	Dec 2014	Dec 2016	Dec 2016	40%	10%
Flushing Bay	Raise Weir BB-R02	Jun 2014	Dec 2016	Dec 2016	30%	0%
	Regulator Modifications	Dec 2015	Jun 2018	Jun 2018	-	-
	Flushing Bay Dredging	Sep 2016	TBD ⁽²⁾	TBD ⁽²⁾	-	-
Jamaica	Parallel 48-Inch Interceptor	Aug 2014	Feb 2017	Feb 2017	23%	10%
Tributaries	Bending Weirs	Dec 2014	Jun 2016	Jun 2016	78%	37%
Newtown Creek	Enhanced Aeration East Branch, Upper Newtown Cr	Oct. 2015	Jun 2018	Jun 2018	-	-
	Enhanced Aeration Dutch Kills, Lower Newtown Cr	Dec 2016	Dec 2019	Dec 2019	-	-
	Bending Weirs/Floatables Control	May 2015	Dec 2017	Dec 2017	21%	19%
Westchester	Modifications to CSO-29 & 29A	Dec 2015	Dec 2019	Dec 2019	9%	0%-
Creek	Pugsley Creek Parallel Interceptor	Jun 2016	Dec 2019	Dec 2019	-	-
	26th Ward HLSS Phase 1	Mar 2016	Dec 2018	Dec 2018	-	-
	26th Ward HLSS Phase 2	Mar 2018	Dec 2020	Dec 2020	-	-
	26th Ward HLSS Phase 3	Mar 2020	Dec 2022	Dec 2022	-	-
Jamaica Bay	26 th Ward Low Level MSPs	Aug 2012	Apr 2015 ⁽⁴⁾	Apr 2015	97%	100%
Duy	26th Ward, High Level MSP	June 2015 ⁽³⁾	July 2018 ⁽³⁾	April 2018 ⁽³⁾	25%	-
	26th Ward PSTs 1-5	Jan 2016 ⁽³⁾	Jul 19, 2020 ⁽³⁾	April 2020 ⁽³⁾	-	-
	Rockaway WWTP Conveyance		Dec 2017	Dec 2017	-	-
WI WWTP	MSP Replacement	Mar 2015	Dec 2017	Feb 2018	36%	23%

 Table 4 – Ongoing and Upcoming Construction Contracts and their Status

Quarterly Progress Report

Case #CO2-20110512-25 Modification to CO2-20000107-8

First Quarter, 2016

Bar Screen	Dec 2014 June 2018	

Note: Changes from the previous reporting period are shown in **bold**.

(1) Percentage Construction Completion is tracked based on cost incurred.

⁽²⁾ Dredging; completion milestone to be submitted as part of the final JAP permit modification request (per the DEC DRAFT JAP permit).

⁽³⁾ Modifications to the CSO Order related to the Wards Island and 26th Ward WWTPs are memorialized in a Consent Order effective March 26, 2015.

3.0 Detailed Description of Work Performed

3.1 Inner Harbor CSO

The Inner Harbor CSO Facility Planning area consists of the drainage areas of the North River, Newtown Creek, and Red Hook WWTPs and their associated sewers and pumping stations. The receiving waters of the study area include the Lower East River, Hudson River, Upper New York Bay, and Gowanus Canal and Bay. Excluding projects already completed and milestones met, the Consent Order contemplates the following:

- Environmental dredging in approximately 825 feet of the head end of Gowanus Canal to a final water depth of 3.0 feet below mean lower low water.
- Gowanus Pumping Station reconstruction to improve operational reliability and redirect flow directly to the Columbia Street Interceptor via a new force main constructed within the Flushing Tunnel.
- Rehabilitation of the Gowanus Canal Flushing Tunnel System with the installation of a new pumping system with redundant, interchangeable pumps that will eliminate shutdowns during low tide and improve maintenance operations.
- The work in Inner Harbor CSO Facility Planning area also includes Area-wide green infrastructure contracts in Gowanus CSO Tributary Drainage Area (TDA), which will saturate the area with as many green infrastructure practices as possible to meet the milestones as outlined in the Order. The Green Infrastructure Program is discussed in Section 3.9 below.

Gowanus Canal was added to the US EPA Superfund National Priorities List (NPL) on March 2, 2010. On September 27, 2013, EPA issued the Record of Decision, which describes the factual and legal basis for the selected remedy for the contaminated sediments and source controls at the site.

Anticipated Design Activities for Next Quarter

n/a

Construction Work Performed During This Quarter

- Gowanus Pumping Station and Flushing Tunnel Modernization
 - Interim Oxygen Transfer System (OTS) There have been 109 anchors removed to date.
 G Contractor still needs to remove approximately 70 anchors remaining south of Carroll Street Bridge. No work was performed during this period. There was a hold on work through March 2015 due to USEPA installation of a DTS System cable down the center of the Canal which prohibited any activities that could potentially disturb the canal bottom sediment. Additionally, NYC DOT had indicated that the 3rd Street Bridge would be inoperable until March 31, 2015. Removal of remaining anchors recommenced on April 27, 2015. Concrete anchor removal within the canal between STA 16+50 and 24+50 was completed on May 11, 2015. In total, 160 anchors were removed.

 On April 13th, 2015, DEC accepted DEP's Feb 27 certification of Construction completion for the Flushing Tunnel Modernization and Wastewater Pumping Station (WWPS) Reconstruction was achieved on December 24, 2014, sixty-six (66) days earlier than the modified date of February 28, 2015.

	Gowanus Canal Pumping Station
	and Flushing Tunnel
Contract ID	CSO-GC
Plan	Rehabilitation of Pumping Station and
Elements	Flushing Tunnel
Location	Gowanus Pumping Station Property
Location	Brooklyn
Actions	Wastewater Pumping Station and Flushing
Actions	Tunnel Pumping System upgrades
Construction	\$160,334,214
Cost	\$100,554,214
Status	Complete
Other	
Issues	

Table 5 – Inner Harbor CSO Projects

3.2 Flushing Bay CSO

The Flushing Bay CSO Facility Planning area includes the portions of the Tallman Island WWTP and the High Level Interceptor of the Bowery Bay WWTP drainage areas, associated sewers, and pumping stations that discharge to Flushing Bay and Flushing Creek in Queens. The Consent Order projects are constructed under contracts TI–WW-1, EE-DSGN-4, CS-FB-LLD, CS-FB-BWR, and CSO-DRDG, which respectively include the following items:

- Tallman Island Whitestone Interceptor certified complete on December 12, 2014
- Tallman Island Flushing Interceptor
- Diversion of low-lying sewers and raising of the weir at BB-R02
- Regulator Modifications
- Environmental dredging of Flushing Bay

The work in Flushing Bay CSO Facility Planning area also includes Area-wide green infrastructure contracts in Flushing Bay CSO Tributary Drainage Area (TDA), which will saturate the area with as many green infrastructure practices as possible to meet the milestones as outlined in the Order. For more details on the Green Infrastructure Program, see Section 3.9, below.

Design Work Performed During This Quarter

- Tallman Island Flushing Interceptor
 - Conceptual Design the conceptual design draft report was reviewed, finalized, submitted to DEC on March 23, 2015.
 - Structural Assessment- Consultant evaluated the inspection projects performed by SewerVue to date and submitted a letter recommending that DEP not move ahead with the structural assessment of the Ulmer Interceptor by SewerVue. This letter was forwarded to DEC on March 23, 2015.
- Divert Low-Lying Sewers
 - Contract registered January 9, 2015.
- Regulator Modifications
 - Contract registered & NTP issued for 12/31/15.
 - Certification of milestone completion issued to DEC on 12/28/15.
- Environmental Dredging
 - The final design phase of the project is completed; **DEP is in the process of procuring the Construction Contractor and Construction Management Services contracts**.

Construction Work Performed During This Quarter

- Tallman Island Whitestone Interceptor
 - Continued landscaping work at Powell's Cove Park
 - Maintained erosion and sediment control measures in wetland and adjacent areas.

- DEP certified construction completion on December 12, 2014. DEC inspected the site on January 13, 2015 and accepted the certification on January 21, 2015.
- Regulator Modifications
 - Construction contract was in procurement during this period.

Anticipated Design Activities for Next Quarter

- Tallman Island Flushing Interceptor
 - A CCTV/Sonar inspection will be performed to determine whether there has been any further structural deterioration of the pipe.
- Divert Low-Lying Sewers
 - Design services during construction (DSDC) to continue at DDC.
- Regulator Modifications
 - Design has been completed.
- Environmental Dredging
 - Continue with construction procurement.

Anticipated Construction Activities for Next Quarter

- Divert Low-Lying Sewers
 - Contractor to continue excavation operations while fabrication of pre-cast manholes is ongoing.
- Regulator Modifications
 - Contractor mobilization for start of construction work.

	Tallman Island Flushing Interceptor	Divert Low-Lying Sewers / Raise Weir BB-R02	Regulator Modifications	Environmental Dredging of Flushing Bay
Contract ID	TBD	CS-FB-LLD	CS-FB-BWR	CSO-DRDG DRG-FB
Plan Elements	Address Flushing Interceptor sag in Ulmer Street	Divert Low Lying sewers in the vicinity of Bowery Bay WWTP. Raise the weir at regulator BB -02	Bowery Bay High Level Interceptor regulator modifications at 10 regulators	Environmental Dredging
Location	From MH 45 at Whitestone Expressway to MH 29 at Ulmer Street and 25 th Avenue	Regulator BB-02. Berrian Blvd and 19 th Ave between 43 rd St. and 45 th St.	Five of ten regulators along 108 th street, Ditmars Blvd and the LaGuardia Airport site	Proximate to CSO Outfalls BB006 and BB008
Actions				Dredge bottom sediments to final depth of 4 ft. below MLLW
Cost	TBD	\$5,610,000	\$28,820,000	\$34,720,000 (based on Low Bidder)
Status	TOC (PW-088-03) issued for potential design activities described above	In Construction	NTP issued	Construction Procurement
Other Issues				None

Table 6 – Flushing Bay CSO Projects

3.3 Jamaica Tributaries CSO

The Jamaica Tributaries CSO Facility Planning area includes the drainage area of the Jamaica WWTP and its associated sewers and pumping stations. The receiving waters of the study area are Bergen, Thurston, Shellbank, and Hawtree Basins, which are located along the eastern shore of Jamaica Bay on either side of JFK International Airport. The Consent Order projects are constructed under contracts CSO-JT-SB, CS- JA-BBS, and CS-JA-BWR, which include the following items, respectively:

- The Destratification Facility, a permanent diffused-air bubble mixing system at Shellbank Basin designed to eliminate temperature stratification during the summer season which leads to poor water quality conditions in the basin, odors and marine life kills.
 - DEP Certified Construction Completion of the Destratification Facility on March 20, 2012, and DEC accepted the certification on July 23, 2012.
- A Parallel 48–inch sewer under the Belt Parkway to complement the existing 36-inch double barrel Belt Parkway crossing in the West interceptor.
- Bending Weirs at regulators J3 and J14 in the West Interceptor and J6 in the East Interceptor drainage area.

The work in Jamaica Tributaries CSO Facility Planning area also includes Area-wide green infrastructure contracts in Jamaica Tributaries CSO Tributary Drainage Area (TDA), which will saturate the area with as many green infrastructure practices as possible to meet the milestones as outlined in the Order. For more details on the Green Infrastructure Program, see Section 3.9, below.

Design Work Performed During This Quarter

- Parallel 48-inch Siphon/Interceptor
 - Continued design services during construction (DSDC).
- Bending Weirs
 - Continued design services during construction (DSDC).

Construction Work Performed During This Quarter

- Parallel 48-inch Siphon/Interceptor
 - Completed excavation of South Receiving Pit
 - Completed North 54 inch micro-tunnel drive and the twin 36 inch micro-tunnel drives across the Belt Parkway
- Bending Weirs

- Has substantially completed regulator modification work at JA-3, JA-14. Regulator modification work at JA-6 is continuing.

Prepare sites for bending weir installation. Partial delivery of bending weirs is expected in late January 2016. Anticipated Design Activities for Next Quarter

- Parallel 48-inch Siphon/Interceptor
 - Continue DSDC.
- Bending Weirs
 - Continue DSDC.

Anticipated Construction Activities for Next Quarter

- Parallel 48-inch Siphon/Interceptor
 - Demobilize micro-tunnel equipment
 - Complete permanent structure at Launch, North & South Pits
 - Commence tie in work at North & South Receiver Pits
- Bending Weirs
 - Install bending weirs at JA-3 and JA-14
 - Continue modifying the regulator at JA-6 and prepare for bending weir installation.

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	Parallel 48-inch Siphon / Interceptor	Bending Weirs
Contract ID	CS-JA-BBS	CS-JA-BWR
Plan Elements	Parallel 48-inch Sewer	Bending Weirs
Location	Belt Parkway Queens	Regulator J6 on the East Interceptor and regulators J3 and J14 on the West Interceptor
Actions Design and construct system upgrades		Design and construct system upgrades
Construction Cost	\$20,256,909	\$6,853,955
Status	Construction	Construction
Other Issues		

Table 7 – Jamaica Tributaries CSO Projects

3.4 Newtown Creek CSO

The Newtown Creek CSO Facility Planning area includes the portions of the Newtown Creek WWTP and the Low Level Interceptor of the Bowery Bay WWTP drainage areas that discharge to Newtown Creek, English Kills, Dutch Kills, Whale Creek, Maspeth Creek and the East Branch along the Brooklyn-Queens border. The Consent Order projects are constructed under contracts CSO-NC-2, CSO-NC-3, CSO-NC-4, CS-NC-REG & FLO, GBNC15-05, which include the following items:

- Enhanced Aeration in the Lower English Kills
 - DEP certified complete and DEC accepted certification May 13, 2014
- Enhanced Aeration in East Branch and Upper Newtown Creek
- Enhanced Aeration in Dutch Kills and Lower Newtown Creek
- Bending Weirs / Floatables Control
- Green Infrastructure Demonstration project in the Newtown Creek drainage area
 - Updates on the GI Demonstration Project are discussed in the Green Infrastructure Section of this report, below.

The work in Newtown Creek CSO Facility Planning area also includes Area-wide green infrastructure contracts in Newtown Creek CSO Tributary Drainage Area (TDA), which will saturate the area with as many green infrastructure practices as possible to meet the milestones as outlined in the Order. For more details on the Green Infrastructure Program, see Section 3.9.

Newtown Creek was added to the EPA Superfund National Priorities List (NPL) on September 29, 2010.

Design Work Performed During This Quarter

- Enhanced Aeration
 - The bid documents for the Enhanced Aeration in Dutch Kills and portions of Newtown Creek project (CSO-NC-4) were reviewed by DEP Legal and NYC Law Dept. **The project was advertised for bid on March 17, 2016 and subsequently cancelled in light of the Construction NTP milestone modification from December 2016 to December 2017.**
 - Continued to provide DSDC services for the East Branch Aeration contract CSO-NC-3.
- Bending Weirs and Floatables Control
 - Continued review of construction contractor submittals.

Anticipated Design and construction Activities for Next Quarter

- Enhanced Aeration
 - Continue providing DSDC services for East Branch Aeration contract CSO-NC-3.
 - Continue procurement of the construction contract for the Enhanced Aeration in Dutch Kills and Lower Newtown Creek Aeration (CSO-NC-4) project.

- Began mobilization and early construction activities under the East Branch Aeration contract including submission of shop drawings and procurement of required permits, preconstruction surveys, and installation of erosion control.
- Bending Weirs and Floatables Control
 - Continue construction activities & review of construction contractor submittals.
 - Continue construction work including installing support of excavation and concrete placement for the construction of the chambers

	Enhanced Aeration 2	Enhanced Aeration 3	Bending Weirs / Floatables Control
Contract ID	CSO-NC-3	CSO-NC-4	CS-NC-REG & FLO
Plan Elements	Enhanced Aeration	Enhanced Aeration	Floatables Controls and Overflow Reduction
Location	East Branch and Upper Newtown Creek	Dutch Kills and Lower Newtown Creek	Dutch Kills, Maspeth Creek, English Kills and East Branch
Actions	Contract in construction phase. Expected to complete on time.	Legal/Law review concluded on March 10, 2016	Design of bending weirs and baffles, to reduce overflows/floatables
Construction Cost	\$15,433,600 (G+E+H Contract amounts together)	\$31,695,425	\$41,900,419
Status	Construction	Procurement	Construction
Other Issues	NTP issued on 10/30/2015 meeting the modified consent order date of October 2015.		

Table 8 – Newtown Creek CSO Projects

3.5 Westchester Creek CSO

The Westchester Creek CSO Facility Planning area includes the portion of the Hunts Point WWTP drainage area, its associated sewers, and pumping stations that discharges to Westchester Creek and Pugsley Creek in the Bronx. The Consent Order projects are constructed under contracts CS-ER-WCM and CS-ER-WCP, which respectively include the following items:

- Modifications to CSO-29 and CSO-29A to increase conveyance to the WWTP and reduce discharges from Outfall HP-014
- Pugsley Creek Parallel Interceptor to increase conveyance to the WWTP and reduce discharges from Outfall HP-013

The work in Westchester Creek CSO Facility Planning area also includes Area-wide green infrastructure contracts in Westchester Creek CSO Tributary Drainage Area (TDA), which will saturate the area with as many green infrastructure practices as possible to meet the milestones as outlined in the Order. For more details on the Green Infrastructure Program, see Section 3.9, below.

Design Work Performed During This Quarter

- Modifications to CSO-29 and 29A
 - Final design is **complete**.

Anticipated Design Activities for Next Quarter

- Modifications to CSO-29 and 29A
 - Provide DSDC services.
 - Begin mobilization to start construction activities at CSO-29A.
- Pugsley Creek Parallel Interceptor
 - Final Design **is completed.**

	Modifications to CSO-29 and CSO-29A	Pugsley Creek Parallel Interceptor start from CSO-24
Contract ID	CS-ER-WCM	CS-ER-WCP
Plan Elements	Improve flow control structures in sewers to convey more flow to the Hunts Point WWTP	Add capacity to convey more flow to the Hunts Point WWTP
Location	Eastchester Road, Bronx	Classon Point, Bronx
Actions	Design	Continue Design at DDC
Construction Cost	\$14.5 Million	\$65.8 Million (Estimated)
Status	In Construction	Final Design is Completed
Other Issues		

Table 9 – Westchester Creek CSO Projects

Changes from the previous reporting period are shown in **bold**.

3.6 Jamaica Bay CSO

The Jamaica Bay CSO Facility Planning area includes the drainage areas of the 26th Ward, Coney Island, and Rockaway WWTPs and their associated sewers and pumping stations. The receiving waters of the study area include Fresh Creek, Hendrix Creek, Spring Creek, and the open waters of Jamaica Bay. The Consent Order projects are constructed under contracts CSO-DRG and CSO-GCER, which include the following items:

- Interim dredging of the head-end of Hendrix Creek (Completed)
- Improving conveyance to the Rockaway WWTP
- 26th Ward High Level Sewer Separation (HLSS)
- 26th Ward Preliminary Treatment Reliability Improvements

The work in Jamaica Bay CSO Facility Planning area also includes Area-wide green infrastructure contracts in Jamaica Bay CSO Tributary Drainage Area (TDA), which will saturate the area with as many green infrastructure practices as possible to meet the milestones as outlined in the Order. For more details on the Green Infrastructure Program, see Section 3.9, below.

In addition, the 26th Ward Green Infrastructure Demonstration Project was performed under a separate contract. Updates on the GI Demonstration Project are discussed in the Green Infrastructure Section of this report.

Design Work Performed During This Quarter

- 26th Ward High Level Sewer Separation
 - Final Design has been completed for Phases 1a and 1b. Certification letter from DEC received on April 1, 2015.
 - Design is commencing for the phase 2 contracts.
 - Survey for Phases 3a and 3b have been received.
- 26th Ward Preliminary Treatment Reliability Improvements
 - On December 2014, certified milestone XII.K.5, as revised by Appendix A to the 2015 Order modifying the CSO Order.
 - NOV related to April 2013 milestone for initiation of design was resolved by Consent Order effective March 26, 2015. (2015 Order)
 - PST work (26W-20) NTP given on January 11, 2016.
 - HLMSP work (26W-21) NTP on June 01, 2015.

Construction Work Performed During This Quarter

- Hendrix Street Canal Dredging
 - Submitted Post Dredge Monitoring Report No. 6 to DEC
- 26th Ward Preliminary Treatment Reliability Improvements
 - PST work (26W-20) Preparing for demolition. Contractor initiated submittal process.

- HLMSP work (26W-21) Continue working on wet well repair

Anticipated Design Activities for Next Quarter

- 26th Ward High Level Sewer Separation
 - Preliminary Design to continue for Phases 2 and 3 contracts.

Anticipated Construction Activities for Next Quarter

- Hendrix Street Canal Dredging
- 26th Ward High Level Sewer Separation
 - Notice to proceed was issued to the contractor to commence construction.
- With the submission of Post Dredge Monitoring Report No. 6 to the DEC, the requirements of General Condition No. 3. Post Construction Monitoring Plan included in NYSDEC Permit No. 2-6105-00755/00001, 2, 3 have been satisfied and no additional work is required.26th Ward Preliminary Treatment Reliability Improvements
 - PST work (26W-20) Demolition of blowers/ammonia building.
 - HLMSP work (26W-21) Continue working on wet well repair and MSP replacement.

	Rockaway WWTP Conveyance Improvements	26 th Ward HLSS	26 th Ward Wet Weather Stabilization
Contract ID	Project not yet initiated	CS-FB-SEW	26W-12(CO 128) 26W-21, 26W-20
Plan Elements	Improve collection system and WWTP capacity to achieve 2DDWF		Low Level MSPs High Level MSPs PST#5 PST1-4 Stabilization
Location	Rockaway WWTP, Queens	Fresh Creek, Brooklyn	26 th Ward WWTP, Brooklyn
Actions	None	None	-
Construction Cost	TBD	\$57 million for Phases 1a \$51 million for Phases 2a and 2b (estimated). \$63 million for Phases 3a and 3b (estimated)	LLMSP \$7.6 million 26W-21 \$15 million 26W-20 \$134.4 million
Status	Project not yet initiated	CPIs for all 3 phases have been sent to DDC.	Complete (LLMSPs) In Construction (26W-21) In Construction (26W-20)
Other Issues			Modifications to Consent Order and milestones for this project were effective Mar 26, 2015.

Table 10 – Jamaica Bay CSO Projects

3.7 Wards Island WWTP Headworks Wet Weather Improvements

The Wards Island WWTP Headworks Wet Weather Improvements consist of work done at the WWTP to increase its wet weather handling capacity. The projects described in this section 3.7 were added to the 2012 CSO Order through a modification effective March 26, 2015 (DEC Case No. CO2-20140314-01). The projects are constructed under contracts WI-288(R) and WI-280, which include the following items:

- Reconstruction of Main Sewage Pumps (MSP)
- Bar Screen Replacement

Design Work Performed During This Quarter

Construction Work Performed During This Quarter

- MSP Replacement at Wards Island WWTP
 - Continued installation of the first MSP including electrical work
 - Commenced installation of the second MSP including electrical work

Anticipated Construction Activities for Next Quarter

- MSP Replacement at Wards Island WWTP
 - Completion of the first MSP
 - Continue installation of the second MSP
- Bar Screen Replacement at Manhattan and Bronx River Grit Chambers
 - Contractor to start mobilization.

	MSP Reconstruction	Bar Screen Replacement
Contract ID	WI - 288(R)	WI - 280
Plan Elements	Reconstruction of Six (6) Main Sewage Pumps	Replace Bar Screens at Bronx and Manhattan Grit Chambers
Location	Wards Island WWTP	Wards Island WWTP
Status	Certification of Notice to Proceed to Construction sent on March 31, 2015	Certification of Notice to Proceed to Construction sent on December 23, 2014
Construction Cost	\$3,689,000	\$13,229,000
Actions	The first and second existing MSP has been released for construction.	Shop witness schedule first week of July 2015 for one screen for each chamber.
Other Issues	The second MSP was released for construction due to a failure in its motor. Manufacturing of spool piece has resulted in additional unanticipated delays.	Jett requested additional cost to installed BGC bar screen.

Table 11 – Wards Island WWTP Projects

Changes from the previous reporting period are shown in bold.

3.8 Environmental Benefits Projects

DEP has undertaken these projects in connection with the settlement of an enforcement action taken by New York State and DEC for violations of New York State law and DEC regulations. The Environmental Benefit Projects (EBPs) are funded by DEP and are designed to abate CSOs and/or address wet weather water quality impacts from CSOs and to benefit the waters in and around New York City.

In addition to the EBPs discussed below, the 2012 Order requires that \$2 million in EBP funding be allocated toward the Hutchinson River and Newtown Creek Neighborhood Demonstration Areas. The funding commitment has been met and the Demonstration Area projects are now complete.

2008 CSO EBP Grants

The 2008 Modification to the CSO Consent Order requires not less than \$4 million worth of DEPfunded Environmental Benefit Projects (EBPs) designed to abate CSOs and/or address wet weather water quality impacts from CSOs and to benefit the waters in and around New York City.

Manhattan College

The installation of approximately 14,666 sq. ft. of a modular green roof project on New York Hospital in Queens was completed in November 2012 and monitoring of flow data continues and is in year three of the three year monitoring period.

The total project value is \$660,440; \$477,026 has been invoiced through **December** 2015. New York Hospital supported the plan to increase the scope of this project by installing and monitoring an additional green roof using existing funds. Additional trays of green roof plants were grown and installed in September by staff from Manhattan College. The goal of this new roof would be to test the shade tolerance of the plantings and determine the baseline light requirement beyond which green roof plantings would not survive. Monitoring of the newly constructed roof is occuring concurrently with the previously constructed sections. Monitoring equipment has been de-winterized for the new season.

NYC Audubon Society

A Greenstreets stormwater capture system in Rego Park that will retrofit an impervious surface and replace it with permeable pavement and vegetation to capture runoff from a three acre-watershed. A topographical survey of the site was conducted. **100**% construction designs are in the process of being updated following discussion with NYC DOT to ensure the project conforms to updated pedestrian and traffic calming features. The total project value of \$448,803 has been increased to \$580,245.15 to account for the increased design and construction cost; \$75,000 has been invoiced to date as startup fund and subsequent bills have been deducted from the fund. \$2,340.57 remains available in Audubon's startup fund.

Regional Plan Association

Two Sponge Park[™] bioretention basins were completed in June 2013 and monitoring equipment were installed shortly afterward. Equipment testing and data collection began in spring 2014. Ice formation during the winter of 2014-2015 caused minor damage to some aboveground equipment which will be reinstalled prior to resumption of monitoring

in Spring 2015. Equipment calibration tests scheduled for April to test new sensors which were added since Spring 2014. The total project value is \$600,000; \$447,350 has been invoiced through January 2015.

Gowanus Canal Conservancy

The 6th Street Green Corridor Project built a series of curbside swales ranging from 400 square feet to 1,200 square feet along 6th Street and 2nd Avenue in Brooklyn. Construction began in April 2014 and all major structures for the eleven bioswales were completed by June. Trees and herbaceous plants were installed in early June and are currently being maintained by the Conservancy and the contractor. Installation of tree guards and other aesthetic details has been completed and the monitoring equipment have been installed. The site sustained some damage during winter 2014-2015 and repairs were made by the contractor. Monitoring equipment calibration will continue this spring, and will mark the start of the first full year of data collection. The total project value is \$583,470 (\$873,470 including EPA Grant); \$421,095 has been billed through March 2016.

• Unisphere, Inc.

Installation of a treatment wetland and rain garden for treating stormwater entering Meadow Lake. This project will receive runoff from approximately 3.26 acres consisting of portions from a parking area at the southwestern edge of Meadow Lake in Flushing Meadows Corona Park. eDesign Dynamics entered into a contract agreement with Excav Services and construction began on May 20, 2013. Construction was completed in spring 2015 with the installation of wetland planting and upland vegetation. **This contract is in the process of being transferred to the City Parks Foundation due to Unisphere Inc. disbanding. Monitoring of the EBP will resume this spring.** The total project value is \$504,340; \$436,327 was invoiced through May 2015.

• Drexel University

Project was to design, construct, monitor, evaluate, report on and maintain a variety of green infrastructure stormwater capture technologies that also promote ecosystem services in the Bronx River watershed. Due to high bedrock and low infiltration rate, the proposed location at Stratford Ave is being dropped as a viable site. Alternative sites at the Bronx High School of Science and Flushing International High School were submitted as alternate sites and were approved by DEC to proceed with full design. Construction at Flushing International High School is ongoing and is expected to be completed before June 2016. Construction at Bronx Science High School will commence at the end of the school year. Total project value is \$893,493; \$274,091 has been invoiced through October 2015.

Plan Elements:	Bronx River	Flushing Bay and Creek	Gowanus Canal	DEC US Forestry Service Grant
Location:	HP-009 Service Area	Multiple Areas	6th St / 2nd Ave, Brooklyn	Bronx River and Newtown Creek CSO Areas
Description:	Stormwater BMP evaluations	Manhattan College New York Hospital Green roof (\$660,440); RPA bioretention basins under the LIE (\$600,000); Unisphere treatment wetlands and rain gardens for Meadow Lake (\$504,340); NYC Audubon Rego Park Green Streets (\$580,245)	Gowanus Canal Conservancy 6th Street Green Corridor Project	Enhanced tree pit evaluation in HP-009 service area; Green infrastructure installation in Newtown Creek CSO shed; Open source access for Drexel University's LIDRA model; Education and stewardship activities in the HP-009 area.
Cost:	Budget: \$850,000 JTD : \$ 274,091 This Qtr: \$0 Next Qtr: \$100,000	Budget: \$2, 345,025 JTD: \$ 1,435,703 This Qtr: \$19,986 Next Qtr: \$100,000	Budget: \$583,470 JTD: \$ 421,095 This Qtr: \$ 45,568 Next Qtr: \$ 25 ,000	Budget: \$250,000 JTD: \$223,244 This Qtr: \$0 Next Qtr: \$0
Status:	Bronx Science at 100% design and construction set to begin Summer 2016 . Flushing International High School: Construction Ongoing	Manhattan College, Unisphere and RPA completed construction and is in the monitoring phase. NYC Audubon is updating 90% designs to reflect new DOT Standards	Construction completed July 2014. Monitoring of installations began and will continue for three years.	Working with Riverkeeper to close out their contract.
Other Issues:	Subsurface Drainage	None	None	

Table 12 – 2008 Modified CSO Consent Order Environmental Benefits Projects

Changes from the previous reporting period are shown in **bold**.

3.9 Green Infrastructure Program Implementation

This section of the quarterly report provides the status of Green Infrastructure Program implementation required by paragraph IV.C of the 2012 CSO Consent Order. The Order sets forth schedule and stormwater capture targets, and other requirements for the program to reduce runoff and CSO through the use of green infrastructure.

Additionally, the Order contains completion milestones for three Green Infrastructure Demonstration projects and sets forth financial requirements including the requirement to spend no less than \$2M of EBP funds on the implementation of two Green Infrastructure Demonstration areas, which has been achieved.

To meet the green infrastructure goals of the Order, DEP has identified Priority Areas based on several criteria, such as annual CSO volume, frequency of CSO events, as well as projected benefits of projects constructed through DEP's Waterbody/Watershed Facility Plans or other system improvements planned for the future. DEP also notes outfalls in close proximity to existing and future public access locations. DEP continues to review and expand the Priority Areas to ensure sufficient green infrastructure implementation to meet the 2030 goal set forth in the Order.

The identification of Priority Areas has enabled DEP to focus resources on specific CSO tributary areas, to analyze all potential opportunities, to saturate these areas with green infrastructure as much as possible, and to achieve efficiencies in design and construction.

DEP has initially focused primarily on the Area-wide right-of-way contracts building Right-ofway Bioswales, Stormwater Greenstreets, Right-of-way Rain Gardens, and porous paving. DEP's standardized designs and procedures have been critical to supporting the systematic implementation of green infrastructure at a wide scale. DEP expects to continue green infrastructure implementation using an expanding array of tools. As right-of-way implementation continues and reaches its fullest extent over the long term, DEP will increasingly rely on other, more site-specific opportunities on public and private property. Over time, the proportion of program resources devoted to implementation will shift from right-of-way to public property retrofits and other types of green infrastructure tools.

During the **First** Quarter of **2016**, design and construction work continued in three Green Infrastructure Program initiatives and are generally summarized below. DEP plans to continue this work for the next quarter.

- Ongoing Area-wide green infrastructure contracts design and build thousands of Right-of-way Bioswales, Right-of-way Rain Gardens and Stormwater Greenstreets (ROWBs, ROWRGs and SGSs). Design and construction contracts are being implemented in multiple phases.
- Ongoing siting, design and construction of public property retrofits in coordination with City agency and non-profit partners.
- Ongoing design and construction of Green Infrastructure Grant Program projects on private property.

Below is a status summary of green infrastructure practices and impervious area managed by CSO Tributary Drainage Area (TDA), as of the publish date of this report. The table is cumulative and updated each quarter.

CSO Tributary Drainage Area	Total GI Practices	Impervious Area Managed (ac)
Bronx River	89	25
East River / Open Waters	96	45.7
Flushing Bay	1006	113
Flushing Creek	78	9
Gowanus Canal	111	9
Hutchinson River	205	26
Jamaica Bay	927	100
Newtown Creek	1311	110
Paerdaget Basin	4	0
Westchester Creek	3	0
Total	3830	437

Table 13 – Status of Green Infrastructure Practices and Impervious Area Managed

Changes from the previous reporting period are shown in **bold**.

- The **437** acres represent 0.6% of the total impervious area in combined sewer areas to be managed.
- DEP is on schedule to achieve 0.7% impervious area managed by end of 2015 and 1.5% by the end of 2016, as described in the 2014 Annual Report.

4.0 Community Relations

DEP's public participation plan was released to the public on June 26, 2012 and describes the multipronged tools and activities DEP will utilize to inform and involve diverse stakeholders and the broader public throughout the LTCP process.

The purpose of the public participation plan is to create a framework for communicating with and soliciting input from interested stakeholders and the broader public on water quality and the challenges and opportunities for CSO controls. The public participation plan is designed to keep important stakeholder issues associated with the LTCP program before the public and ratepayers throughout the life of the program.

DEP will report quarterly to DEC on completed public participation activities outlined in the public participation plan as part of this and all future CSO Quarterly Reports. All updates to the Public Participation Plan implemented as a result of public comments received and quarterly reviews of public participation activities by DEC will be posted annually to DEP's website.

During the First Quarter of **2016** DEP completed several community relations-related tasks and provided several LTCP-related updates and education materials to the public. All tasks, efforts and updates are described in this Quarterly Report.

Date	Community Member(s)	Type of Outreach	Attendees
Jan			
8	S.W.I.M.	Meeting	3
26	Pratt Graphic Design review	Meeting	15
Feb			
12	Barclays/Columbia SIPA	Presentation	10
25	Connecting Delta Cities Webinar on Co-benefits	Presentation	20
Mar			
2	Green Infrastructure Grant Workshop, Manhattan	Presentation	40

Table 15 – Green Infrastructure Meetings

LTCP Education and Outreach Activities

- January 12, 2016: DEP staff presented at the Queens Borough President's Borough Cabinet Meeting to provide an update on the Alley Creek, Flushing Creek, and Flushing Bay LTCPs. DEP also informed the Borough Board of the upcoming Jamaica Bay and Newtown Creek LTCPs.
- January 12, 2016: DEP staff presented at the Annual Citywide LTCP meeting. There were approximately 80 attendees and after a 40 minute presentation, attendees were invited to participate in various breakout sessions.

- February 6, 2016: DEP staff attended the SWIM Coalition's community-based LTCP workshop in Coney Island. DEP staff answered questions related to the Coney Island Creek LTCP.
- February 11, 2016: DEP staffed attended the Department of City Planning's Neighborhood Planning Study and provided attendees with information on the Flushing Creek LTCP.
- February 25, 2016: DEP staff presented at the Queens Community Board 7 Environmental Committee and presented on the final recommendations in the Flushing Creek LTCP.
- March 5, 2016: DEP staff attended the SWIM Coalition's community-based LTCP workshop for Flushing Bay. DEP staff answered questions related to the Flushing Creek and Flushing Bay LTCPs.

Planned Activities Not Conducted During This Quarter

• DEP conducted all planned activities this quarter.

Summary of Comments Received

The following is a summary of all e-mails received during the **Third** quarter of 2015:

Table 16 – Community Outreach Email Correspondence this Quarter (Jul – Sep 2015)

	2015			
	Q3			
	July	Aug	Sept	Sub- Totals
RSVP to LTCP Meeting	0	2	16	18
Request to be Added	0	2	0	2
Request to be Deleted	0	0	0	0
Press Inquiries	0	0	0	0
Public Comment	0	0	0	0
General Information	0	0	0	0
Sub-Totals	0	4	16	20

5.0 Changes

The table below provides key personnel as of the Fourth Quarter of 2015.

Diamine Anea	Duciest	DEP Responsible Personnel		
Planning Area	Project	Bureau	Chief	APM
	CSO-DRDG: Gowanus Dredging	BEDC	Tysvaer	Chao
Inner Harbor	CSO-GC: Flushing Tunnel	BEDC	Clarke	Joseph
	CSO-GC: Gowanus PS	BEDC	Clarke	Joseph
	CSO-DRDG: Dredging	BEDC	Tysvaer	Chao
	PW-088 Assn. 2B: Flushing Interceptor	BWT	Lochan	Tbd
Flushing	CS-FB-LLD: Low-Lying Sewers	BWSO	DeLillo	Gordon/Garin
Bay	CS-FB-LLD R2 Weir	BWT	Tbd	Tbd
	CS-FB-BWR: Regulators	BEDC	Tysvaer	Gordon
	TI-WW-1: Whitestone Interceptor	BEDC	Solimando	Sadat
Jamaica	CS-JA-BWR: Bending Weirs	BEDC	Tysvaer	Novotny
Tributaries	CS-JA-BBS: 48-Inch Sewer	BEDC	Tysvaer	Meshkati
	CSO-NC-4: Dutch Kills, Lower Newtown	BEDC	Tysvaer	Meshkati
Newtown	CSO-NC-3: East Branch, Upper Newtown	BEDC	Tysvaer	Meshkati
Creek	CSO-NC-2: Enhanced Aeration Lower English Kills	BEDC	Tysvaer	Adabi
	CS-NC-REG&FLO: Regulators / Floatables Control	BEDC	Tysvaer	Chao
Westchester	CS-ER-WCM: Modifications to CSO-29 / 29A	BEDC	Tysvaer	Chao
Creek	CS-ER-WCP: Pugsley Creek Parallel Interceptor	BWSO	DeLillo	Gordon/Garin
	CSO-HC: Hendrix Creek Dredging	BEDC	Tysvaer	N. Shah
Jamaica	CS-FB-SEW: 26th Ward / Fresh Creek HLSS	BWSO	DeLillo	Gordon/Garin
	CO 26W-128: Low Level Main Sewage Pumps	BEDC	Solimando	Kharivala
Bay	26W-20: 26th Ward Wet Weather Stabilization	BEDC	Solimando	Heim
	26W-21: 26th Ward High Level Main Sewage Pumps	BEDC	Solimando	Heim
Wards Island	Reconstruction of Main Sewage Pumps (MSP)	BWT	Lochan	A. Parada
warus Islaliu	Bar Screen Replacement	BEDC	Moriarty	N. Shah

Table 17 – Key DEP Personnel for Contracts Subject to the CSO Consent Order

Changes from the previous reporting period are shown in **bold**.

6.0 Other Issues

Action Items generated during the **December 03, 2015** CSO Quarterly Meeting are summarized below.

Planning Area	Responsible Party	Required Action	Status
Newtown	DEC	 DEC to coordinate meeting on Superfund between DEP, DEC and EPA (not strictly related to CSO Order) 	In Progress
Creek		 DEC to complete review of supplemental information for NC-4 permit and design. 	In Progress
Jamaica Bay/Tribs	DEP	 DEP to check on need for interim limits for 26th Ward primary settling tank project 	In Progress
EBPs	DEP	 DEP to send schedule for Harbor School, Audubon, Flushing Bay and Bronx River EBPs to DEC. 	In Progress
Gowanus Canal & Bronx River LTCPs	DEC	 DEC to have the LTCPs undergo further review by their upper management. 	In Progress
Misc	DEP DEP/DEC	 Provide flow monitoring and influent sampling data from LTCP sampling efforts (ongoing) Conduct telecom on GI Annual Report 	In Progress In Progress

 Table 18 – Action Items from Quarterly Progress Meeting

7.0 Status of LTCP Development

The status of all Long-Term Control Plan development is described below. Where only the planning area and a LTCP due date are shown, work has not yet been initiated as of the reporting quarter. All Waterbody/Watershed Facility Plans (WWFPs) have been approved.

- Alley Creek LTCP: June 2013
 - DEC comments received on January 23, 2015
 - Response sent to DEC on May 6, 2015.
 - Supplemental sent April 14, 2015
 - May 1, 2015 DEP sent SOW for Spring Creek Demo
 - May 6, 2015 DEP sent AC supplemental
 - June 4, 2015 DEC send comments regarding SC demo
 - August 4, 2015 DEP replied to DEC regarding SC
 - October 14, 2015 DEP submitted follow-up responses for SC
 - December 16, 2015 DEC approved DEP's SC disinfection demo study
- Westchester Creek LTCP: June 2014 (modified date)
 - LTCP was submitted on June 30, 2014 in accordance with the requirements of the Order. DEC comments received on September 22, 2014. DEP responded on November 24, 2014.
 - Additional DEC comments received on January 14, 2015.
 - Response sent to DEC April 14, 2015
- Hutchinson River LTCP: September 2014
 - LTCP was submitted on September 30, 2014 in accordance with the requirements of the Order.
 - DEC comments received on January 14, 2015 and a response was sent on April 14, 2015
 - DEC sent response with comments on June 10, 2015 and DEP responded on August 7, 2015.
- Flushing Creek LTCP: December 2014
 - LTCP was submitted on December 30, 2014 in accordance with the requirements of the Order.
 - DEC comments received on March 23, 2015 and a response was sent on May 22, 2015.
 - DEC sent response with comment on June 10, 2015 and DEP responded on August 7, 2015.
- Bronx River LTCP: June 2015
 - Submitted on-time.
 - Comments from DEC was received on August 24, 2015.
 - DEP responded to DEC's comments on September 23, 2015
- Gowanus Canal LTCP: June 2015
 - Submitted on-time.

- Comments from DEC was received on August 5, 2015, and responded to on September 8, 2015.
- January 6, 2016 DEP submitted Gowanus Canal LTCP and Superfund Modeling Peer Review Report.
- Coney Island Creek LTCP: June 2016 (modified date)
- Flushing Bay LTCP: June 2016 (modified date)
- Jamaica Tributaries and Bay LTCP: June 2017 (modified date)
- Newtown Creek LTCP: June 2017
- Citywide LTCP: December 2017