

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

Second Quarter 2016
(April 1 to June 30, 2016)

July 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 **April 1, 2016** and **June 30, 2016** toward complying with the Order’s milestones.

Critical Events This Quarter

The following critical events occurred this quarter:

- 1. On April 1, 2016 DEC approved the modification request for V.111.J.3 and V.111.J.4, NC Enhanced Aeration in Dutch Kills and Lower NC – NTP and Construction Completion extension for one year. The modified milestone dates are December 2017 and December 2020, respectively.**
- 2. On April 18, 2016 DEP submitted the Flushing Bay Sampling Data for the LTCP.**
- 3. On April 25, 2016 DEP requested an interim wet weather capacity flow limit for 26th Ward WWTP to perform CSO Order-related construction. On June 1, 2016 DEC approved.**
- 4. On May 2, 2016 DEP submitted a Modification Request for V.M.1 Flushing Bay CSO – Submit Approvable LTCP from June 30, 2016 to December 31, 2016. On May 17, 2016 DEC approved the Modification Request.**
- 5. On May 31, 2016 DEP submitted a Force Majeure regarding vandalism for XV.A.2 Wards Island WWTP Headworks Wet Weather Improvements – Reconstruction of Main Sewage Pumps – Construction Completion for MSP replacement at WI WWTP.**
- 6. On June 24, 2016 DEC deleted the milestones III.H.2 and III.H.3 – Inner Harbor CSO – Dredging of Gowanus Canal (NTP and Completion respectively).**
- 7. On June 24, 2016 DEP submitted a Certification of Construction Completion for VII.4 Jamaica Tributaries-Bending Weirs-Construction Completion.**
- 8. On April 29, 2016 DEP requested a modification of the due date for the City-Wide Green Infrastructure Contingency Plan (IV.A.3) from June 30, 2016 to November, 2016. On May 17, 2016 DEC rejected the extension request but said it would use enforcement discretion. On June 27, 2016 DEP submitted a Contingency Plan.**
- 9. On June 27, 2016 DEP submitted the City-Wide Green Infrastructure Implementation – Green Infrastructure Performance Metrics Report (IV.A.2)**
- 10. On June 30, 2016 DEP submitted VII.A Coney Island Creek CSO – Submit Approvable Drainage Basin Specific LTCP for Coney Island Creek.**
- 11. On June 30, 2016 DEP submitted the CSO Post-Construction Compliance Monitoring and CSO Retention Facility Overflow Summary for Alley Creek, Flushing Bay and Spring Creek waterbodies for calendar year 2015.**

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 **June 03, 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 **July and September 2016**:

The next Quarterly Progress Meeting between DEC and DEP **is to be determined**. 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.

Table 1 – Milestones Certified This Quarter (April - June 2016)

LOCATION / PROJECT AREA	ITEM DESCRIPTION	MILESTONE DATE	ACTION REQUIRED	STATUS
Jamaica Tributaries VI.I.4	Bending Weirs – Construction Completion	June 24, 2016	None	Complete
City-Wide Green Infrastructure Implementation IV.A.3	Green Infrastructure Contingency Plan	June 27, 2016	None	Submitted
City-Wide Green Infrastructure Implementation IV.A.2	Green Infrastructure Performance Metrics Report	June 30, 2016	None	Completed
Coney Island Creek CSO VII.A	Submit Approvable Drainage Basin LTCP	June 30, 2016	None	Completed

Table 2 – Milestones Next Quarter (July – September 2016)

LOCATION / PROJECT AREA	ITEM DESCRIPTION	MILESTONE DATE	ACTION REQUIRED	STATUS
Flushing Bay Proposed 2016 CSO Order V.D.2	Notice To Proceed with Dredging	September 2016	Issue NTP	On Schedule

Table 3 – Outstanding Modification Requests and Force Majeure Notices

LOCATION/ PROJECT AREA	ITEM DESCRIPTION	ACTION(S)	REASON FOR ACTION(S)	MILESTONE DATE	STATUS
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
Newtown Creek	VIII.J.3 & VIII.J.4 NC Enhanced Aeration in Dutch Kills and Lower Newtown Creek (3.Notice to Proceed to Construction & 4.Construction Completion)	Modification Request sent on March 31, 2016. DEC approved on April 1, 2016.	Requested extension in order to ensure that results from water quality sampling and analysis being completed as part of the Newtown Creek LTCP can be used to inform the design of the enhanced aeration system.	VIII.J.3 December 2017 & VIII.J.4 December 2020	Construction Ongoing

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.

Table 4 – Ongoing and Upcoming Construction Contracts and their Status

WATERBODY	ITEM DESCRIPTION	NOTICE TO PROCEED	CONSTRUCTION COMPLETION	PROJECTED COMPLETION	% OF TIME ELAPSED	% OF CONSTRUCTION COMPLETED ⁽¹⁾
Flushing Bay	Flushing Interceptor	TBD	TBD	-	-	-
	Divert Low-Lying Sewers	Dec 2014	Dec 2016	Dec 2016	60%	25%
	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 Tributaries	Parallel 48-Inch Interceptor	Aug 2014	Feb 2017	Feb 2017	23%	10%
	Bending Weirs	Dec 2014	Jun 2016	Jun 2016	95%	74%
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 Creek	Modifications to CSO-29 & 29A	Dec 2015	Dec 2019	Dec 2019	-9%	0%-
	Pugsley Creek Parallel Interceptor	Jun 2016	Dec 2019	Dec 2019	-	-
Jamaica Bay	26 th Ward HLSS Phase 1	Mar 2016	Dec 2018	Dec 2018	5%	5%
	26 th Ward HLSS Phase 2	Mar 2018	Dec 2020	Dec 2020	-	-
	26 th Ward HLSS Phase 3	Mar 2020	Dec 2022	Dec 2022	-	-
	26 th Ward Low Level MSPs	Aug 2012	Apr 2015 ⁽⁴⁾	Apr 2015	97%	100%
	26 th Ward , High Level MSP	June 2015 ⁽³⁾	July 2018 ⁽³⁾	Mar 2018⁽³⁾	40%	41%
	26 th Ward PSTs 1-5	Jan 2016 ⁽³⁾	Jul 19, 2020 ⁽³⁾	May 2020⁽³⁾	11%	10%
	Rockaway WWTP Conveyance		Dec 2017	Dec 2017	-	-
WI WWTP	MSP Replacement	Mar 2015	Dec 2017	Feb 2018	45%	39%
	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

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 **provides for** 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. – **Dredging milestones deleted from Order.**
- 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. – **DEP certified complete and certification accepted by DEC.**
- 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. – **DEP certified complete and certification accepted by DEC.**
- The work in Inner Harbor CSO Facility Planning area also includes Area-wide green infrastructure contracts in Gowanus CSO Tributary Drainage Area (TDA).. 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.

Table 5 – Inner Harbor CSO Projects

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

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
 - **Design services during construction (DSDC).**

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

- **Contractor mobilized at four of the five sites. Completed early construction activities including submission of shop-drawings and procurement of permits. Completed test pits for determining locations of existing utilities and structures.**

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
- **Continue with design services during construction (DSDC).Environmental Dredging**
 - **Continue with construction procurement.**

Anticipated Construction Activities for Next Quarter

- Divert Low-Lying Sewers
 - **Contractor to continue excavation operations, fabrication of pre-cast manholes is complete.**
- Regulator Modifications
 - **Contractor will perform utility relocations as required. Excavation work for the access vaults at BB-R04 and BB-R06 will be performed. Installation of micro-piles at BB-R10 and Secant Piles at BB-R09 to begin.**
- Environmental Dredging
 - **Issuance of NTP**

Table 6 – Flushing Bay CSO Projects

	<i>Tallman Island Flushing Interceptor</i>	<i>Divert Low-Lying Sewers / Raise Weir BB-R02</i>	<i>Regulator Modifications</i>	<i>Environmental Dredging of Flushing Bay</i>
<i>Contract ID</i>	TBD	CS-FB-LLD	CS-FB-BWR	CSO-DRDG DRG-FB
<i>Plan Elements</i>	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
<i>Location</i>	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
<i>Actions</i>				Dredge bottom sediments to final depth of 4 ft. below MLLW
<i>Cost</i>	TBD	\$5,610,000	\$28,820,000	\$34,720,000 (based on Low Bidder)
<i>Status</i>	TOC (PW-088-03) issued for potential design activities described above	In Construction	NTP issued	NTP issued
<i>Other Issues</i>				

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 DSDC.

Construction Work Performed During This Quarter

- Parallel 48-inch Siphon/Interceptor
 - **Poured base slab at South Receiving Pit**
 - **Completed concrete outfit of the Launch Pit benching**
 - **Completed set up of additional dewatering at the South Receiving Pit**
- Bending Weirs
 - Completed regulator modification work at JA-3, JA-14, **and JA-6..**

- **Currently all bending weirs at all three regulators are in operation and have been inspected as of June 8, 2016 and verified by the NYSDEC representative.**

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
 - **Begin restoration work on the North Side of the project site**
 - Complete permanent structure at Launch, North & South Pits
 - Commence tie in work at North & South Receiver Pits
- Bending Weirs
 - **Complete punchlist work**

Table 7 – Jamaica Tributaries CSO Projects

	<i>Parallel 48-inch Siphon / Interceptor</i>	<i>Bending Weirs</i>
<i>Contract ID</i>	CS-JA-BBS	CS-JA-BWR
<i>Plan Elements</i>	Parallel 48-inch Sewer	Bending Weirs
<i>Location</i>	Belt Parkway Queens	Regulator J6 on the East Interceptor and regulators J3 and J14 on the West Interceptor
<i>Actions</i>	Design and construct system upgrades	Design and construct system upgrades
<i>Construction Cost</i>	\$20,256,909	\$6,853,955
<i>Status</i>	Construction	Completed
<i>Other Issues</i>	Force Majeure accepted November 2015	n/a

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 and Construction Work Performed During This Quarter

- Enhanced Aeration
 - Enhanced Aeration in Dutch Kills and portions of Newtown Creek project (CSO-NC-4)**
 - **CSO NC-4 was advertised for bid on March 17, 2016 and subsequently cancelled. The milestone for NTP has been modified to December 2017.**
 - Enhanced Aeration in East Branch (NC-3):**
 - Continued to provide DSDC services for the East Branch Aeration contract CSO-NC-3.
 - **Contractor continued mobilization to the site and began removal of the existing soil stockpile.**
 - **Completed demolition of existing structure on-site**
 - **Commenced concrete placement for aeration piping ballast blocks.**
 - **Installed and tested 2 initial test piles.**
- Bending Weirs and Floatables Control
 - Continued review of construction contractor submittals.

- **NC-015 fluming to divert sewer flows around diversion chamber work area is completed**
- **NC-015 demolition of the diversion chamber roof completed and construction of new bench in chamber commenced.**
- **NC-077 counter weight chamber walls were placed.**
- **NC-077 installation of temporary pump around to divert sewer flows around diversion chamber work area has commenced.**
- **NC-083 relocation of the 8” and 20” water-mains were completed.**
- **NC-083 relocation of the 48” trunk water-main was completed**
- **NC-083 MPT installation for work to be done on the 72” drop sewer has commenced.**
- **BB-026 diversion chamber roof demolition completed.**

Anticipated Design and construction Activities for Next Quarter

- Enhanced Aeration
 - Enhanced Aeration in Dutch Kills and portions of Newtown Creek project (CSO-NC-4)**
 - Continue procurement of the construction contract for the Enhanced Aeration in Dutch Kills and Lower Newtown Creek Aeration (CSO-NC-4) project.
 - Enhanced Aeration in East Branch (NC-3):**
 - Continue providing DSDC services for East Branch Aeration contract CSO-NC-3.
 - **Commence the installation of Production Piles and Pile Cap.**
 - **Commence the installation of Aeration Piping in East Branch.**
 - **Continue the casting of concrete ballasts for Aeration Piping.**
 - **Commence the installation of temporary electric service for construction purpose.**
 - **Complete the disposal of existing soil pile from the project site.**
- Bending Weirs and Floatables Control
 - Continue construction activities & review of construction contractor submittals.
 - **Continue construction work including installation of temporary pumping systems, demolition of chamber roofs, benches, walls and commence installation of bending weirs.**

Table 8 – Newtown Creek CSO Projects

	<i>Enhanced Aeration 2</i>	<i>Enhanced Aeration 3</i>	<i>Bending Weirs / Floatables Control</i>
<i>Contract ID</i>	CSO-NC-3	CSO-NC-4	CS-NC-REG & FLO
<i>Plan Elements</i>	Enhanced Aeration	Enhanced Aeration	Floatables Controls and Overflow Reduction
<i>Location</i>	East Branch and Upper Newtown Creek	Dutch Kills and Lower Newtown Creek	Dutch Kills, Maspeth Creek, English Kills and East Branch
<i>Actions</i>	Contract in construction phase. Expected to complete on time.		Design of bending weirs and baffles, to reduce overflows/floatables
<i>Construction Cost</i>	\$15,433,600 (G+E+H Contract amounts together)	\$31,695,425	\$41,900,419
<i>Status</i>	Construction	Procurement	Construction
<i>Other Issues</i>		Coordinating this project with superfund-related water sampling	

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
 - **Contract was bid on 6/16/2016.**

Table 9 – Westchester Creek CSO Projects

	<i>Modifications to CSO-29 and CSO-29A</i>	<i>Pugsley Creek Parallel Interceptor start from CSO-24</i>
<i>Contract ID</i>	CS-ER-WCM	CS-ER-WCP
<i>Plan Elements</i>	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
<i>Location</i>	Eastchester Road, Bronx	Classon Point, Bronx
<i>Actions</i>	Design	Continue Design at DDC
<i>Construction Cost</i>	\$14.5 Million	\$81.5 Million
<i>Status</i>	In Construction	Final Design is Completed and the contract was bid.
<i>Other Issues</i>		

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

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
 - Design is commencing for the phase 2 contracts.
 - Survey for Phases 3a and 3b have been received.
- 26th Ward Preliminary Treatment Reliability Improvements
 - 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) - Cleared the tanks and systems inside the Ammonia Building in preparation for demolition of the building. Ongoing demolition in the Pump and Blower Building to make room for new blowers and personnel areas. Contractor removed Blowers No. 1 and No. 4 including concrete pads and piping. Contractor continues structural and masonry repair in the Degritting Wing and removal of glass blocks in preparation to install translucent wall.**
 - **HLMSP work (26W-21) - Completed work on wet well repair and removal of Temporary pump around system (TPAS).**

- **26th Ward HLSS Phase 1 has started construction**

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) Continue demolition of personnel areas in Pump and Blower Building, demolition of the Ammonia Building, install dewatering system and drive piles for PST-5.**
 - **HLMSWP work (26W-21) Running conduit and wire in preparation for Main Sewage Pumps replacement.**

Table 10 – Jamaica Bay CSO Projects

	<i>Rockaway WWTP Conveyance Improvements</i>	<i>26th Ward HLSS</i>	<i>26th Ward Wet Weather Stabilization</i>
<i>Contract ID</i>	Project not yet initiated	CS-FB-SEW	26W-12(CO 128) 26W-21, 26W-20
<i>Plan Elements</i>	Improve collection system and WWTP capacity to achieve 2DDWF		Low Level MSPs High Level MSPs PST#5 PST1-4 Stabilization
<i>Location</i>	Rockaway WWTP, Queens	Fresh Creek, Brooklyn	26 th Ward WWTP, Brooklyn
<i>Actions</i>	None	None	-
<i>Construction Cost</i>	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
<i>Status</i>	Project not initiated	CPIs for all 3 phases have been sent to DDC. Phase 1 is in construction	Complete (LLMSPs) In Construction (26W-21) In Construction(26W-20)

<i>Other Issues</i>			
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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; **commissioning commenced June 29, 2016**
 - Continued installation of the second MSP including electrical work

Anticipated Construction Activities for Next Quarter

- MSP Replacement at Wards Island WWTP
 - **Complete the commissioning of first pump and put into service**
 - Continue installation of the second MSP **and commission and put into service**
 - **Commence installation of third pump**
- Bar Screen Replacement at Manhattan and Bronx River Grit Chambers
 - Contractor to start mobilization.

Table 11 – Wards Island WWTP Projects

	<i>MSP Reconstruction</i>	<i>Bar Screen Replacement</i>
<i>Contract ID</i>	WI - 288(R)	WI - 280
<i>Plan Elements</i>	Reconstruction of Six (6) Main Sewage Pumps	Replace Bar Screens at Bronx and Manhattan Grit Chambers
<i>Location</i>	Wards Island WWTP	Wards Island WWTP
<i>Status</i>	Certification of Notice to Proceed to Construction sent on March 31, 2015	Certification of Notice to Proceed to Construction sent on December 23, 2014
<i>Construction Cost</i>	\$3,689,000	\$13,229,000
<i>Actions</i>	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.
<i>Other Issues</i>	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.

Changes from the previous reporting period are shown in bold.

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 DEP-funded 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 occurring concurrently with the previously constructed sections. Monitoring equipment has been de-winterized for the new season **and new scales have been built to replace the original, weathered units.**

- **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; **\$128,414 has been invoiced to date to account for construction design and prestart wildlife monitoring conducted by Audubon. Project is in the construction bidding process.**

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; **\$464,212** has been invoiced through **June 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 has been successfully transferred to the City Parks Foundation due to Unisphere Inc. disbanding. Monitoring of the EBP is ongoing.** 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 approved by DEC to proceed with full design.

Construction of hard structures at Flushing International High School has been completed and is awaiting availability of plant matter before completing installation. Construction at Bronx Science High School will commence at the end of the school year. Review of the Health and Safety Plan and discussion with the school officials is ongoing in preparation for the start of construction in July. Total project value is \$893,493; \$343,756 has been invoiced through April 2016.

Table 12 – 2008 Modified CSO Consent Order Environmental Benefits Projects

<i>Plan Elements:</i>	<i>Bronx River</i>	<i>Flushing Bay and Creek</i>	<i>Gowanus Canal</i>	<i>DEC US Forestry Service Grant</i>
<i>Location:</i>	HP-009 Service Area	Multiple Areas	6th St / 2nd Ave, Brooklyn	Bronx River and Newtown Creek CSO Areas
<i>Description:</i>	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.
<i>Cost:</i>	Budget: \$850,000 JTD : \$343,756 This Qtr: \$69,665 Next Qtr: \$100,000	Budget: \$2,345,025 JTD: \$1,505,979 This Qtr: \$70,276 Next Qtr: \$100,000	Budget: \$583,470 JTD: \$421,095 This Qtr: \$0 Next Qtr: \$25,000	Budget: \$250,000 JTD: \$223,244 This Qtr: \$0 Next Qtr: \$0
<i>Status:</i>	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 at 100% design and awaiting construction bids	Construction completed July 2014. Monitoring of installations began and will continue for three years.	Working with Riverkeeper to close out their contract.
<i>Other Issues:</i>	None	None	None	None

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

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-of-way 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 **Second** 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.

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

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
Paerdegat Basin	4	0
Westchester Creek	3	0
Total	3830	437

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.

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 **Second** 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.

Table 15 – Green Infrastructure Meetings

<i>Date</i>	<i>Community Member(s)</i>	<i>Type of Outreach</i>	<i>Attendees</i>
<i>April</i>			
<i>1</i>	<i>NY Law School Rooftops Conference</i>	<i>Presentation</i>	<i>40</i>
<i>6</i>	<i>Queens CB 5 District Service Cabinet</i>	<i>Meeting</i>	<i>15</i>
<i>26</i>	<i>Queens CB 2 District Service Cabinet</i>	<i>Meeting</i>	<i>15</i>
<i>May</i>			
<i>4</i>	<i>Newtown Creek Community Advisory Group</i>	<i>Meeting</i>	<i>30</i>
<i>25</i>	<i>Green Infrastructure Grant Workshop</i>	<i>Presentation</i>	
<i>Jun</i>			
<i>1</i>	<i>Queens CB 5 District Service Cabinet</i>	<i>Presentation</i>	<i>15</i>
<i>7</i>	<i>Brooklyn Grange Sustainability and Stormwater Management Teacher’s Workshop</i>	<i>Presentation</i>	<i>15</i>
<i>14</i>	<i>Queens CB 9</i>	<i>Presentation</i>	<i>20</i>
<i>16</i>	<i>NYCHA Edenwald Tenants Association</i>	<i>Presentation</i>	<i>10</i>
<i>16</i>	<i>Wakefield Taxpayers Association</i>	<i>Presentation</i>	<i>40</i>
<i>29</i>	<i>S.W.I.M. Public Meeting</i>	<i>Meeting</i>	<i>25</i>

LTCP Education and Outreach Activities

- **April 18, 2016:** DEP staff presented at the second Coney Island Creek LTCP meeting. The meeting focused on the alternatives analysis for Coney Island Creek. There were approximately 45 attendees.

- **April 22, 2016:** DEP staff presented at the public launch for the new Wait Pilot Program. The pilot is located in the Newtown Creek watershed and encourages participants to hold off on using water during rain events. There were approximately 15 attendees.
- **May 3, 2016:** DEP staff presented at the Queens Community Board 7 Land Use Committee and presented on the final recommendations in the Flushing Creek LTCP.
- **May 4, 2016:** DEP staff attended the Newtown Creek CAG meeting and announced that the Newtown Creek Public Kickoff meeting will be held in fall 2016.
- **June 7, 2016:** DEP presented at a Sustainability and Stormwater Management Teacher’s Workshop to instruct educators on how to teach their students about CSO events, LTCPs, green infrastructure and other stormwater management issues.
- **June 29, 2016:** DEP staff attended the SWIM Coalition’s quarterly meeting and gave an update on the LTCP process.

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 **second** quarter of **2016**:

Table 16 –Community Outreach Email Correspondence this Quarter (Apr– Jun 2016)

2016				
Q2				
	April	May	Jun	Sub-Totals
RSVP to LTCP Meeting	0	71		71
Request to be Added	0	5	0	5
Request to be Deleted	0	0	0	0
Press Inquiries	0	0	1	1
Public Comment	0	0	0	0
General Information	2	0	0	2
Sub-Totals	0	76	1	79

5.0 Changes

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

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

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

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.

Table 18 – Action Items from Quarterly Progress Meeting

<i>Planning Area</i>	<i>Responsible Party</i>	<i>Required Action</i>	<i>Status</i>
Newtown Creek	DEP	<ul style="list-style-type: none"> DEP to discuss internally next steps on proceeding with NC-4/Borden Ave PS rehab work 	In Progress
Gowanus Canal	DEP DEC	<ul style="list-style-type: none"> DEP to send report on pilot study for addressing foaming at flushing tunnel DEC to send letter officially deleting dredging project from Order 	In progress Complete
Westchester Creek	DEP	<ul style="list-style-type: none"> DEP to respond to DEC comments on Pugsley Creek Interceptor Final Design 	Complete
Wards Island	DEC	<ul style="list-style-type: none"> DEC to respond to Wards Island FM on vandalism of MSP's. 	In Progress
Jamaica Bay/Tribs	DEP	<ul style="list-style-type: none"> DEP to provide ongoing updates on resolution of 10-inch sewer line connection to new Bergen Basin parallel interceptors 	In Progress
Open Waters	DEP	<ul style="list-style-type: none"> DEP to consider submitting Modification Request for Open Waters LTCP milestone 	In Progress
LTCPs	DEC	<ul style="list-style-type: none"> DEC to have Gowanus Canal and Bronx River LTCP's undergo further review by their upper management 	In Progress
Misc	DEP DEP/DEC DEP	<ul style="list-style-type: none"> Provide flow monitoring and influent sampling data from LTCP sampling efforts (ongoing) DEP/DEC to conduct CSO technical meeting in July DEP to discuss internally the infiltration impacts of GI 	In Progress Complete In Progress

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 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
- 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)
 - **DEP submitted LTCP in June 2016**
- Flushing Bay LTCP: June 2016 (modified date)
 - **DEP requested a modification for additional 6 months extension to December 2016.**
- Jamaica Tributaries and Bay LTCP: June 2017 (modified date)
- Newtown Creek LTCP: June 2017
- Citywide LTCP: December 2017