# 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

Fourth Quarter 2015 (October 1 to December 30, 2015)

**January 30, 2016** 

# **Table of Contents**

Table	of Contents	j
List of	f Tables	i
1.0	Executive Summary	1-1
2.0	Construction Contracts	2-1
3.0	Detailed Description of Work Performed	3-1
3.1.	Inner Harbor CSO	3-1
3.2.	Flushing Bay CSO	3-2
3.3.	Jamaica Tributaries CSO	3-5
3.4.	Newtown Creek CSO	3-7
3.5.	Westchester Creek CSO	3-9
3.6.	Jamaica Bay CSO	3-11
3.7.	Wards Island WWTP Headworks Wet Weather Improvements	3-14
3.8.	Environmental Benefits Projects	3-15
3.9.	Green Infrastructure Program Implementation	3-18
4.0	Community Relations	4-1
5.0	Key Personnel Changes	5-3
6.0	Other Issues	6-1
7.0	Status of LTCP Development	7-1

# **List of Tables**

Table 1 – Milestones Certified This Quarter (Oct – Dec 2015)	1-3
Table 2 – Milestones Next Quarter (Jan – Mar 2016)	1-3
Table 3 – Outstanding Modification Requests and Force Majeure Notices	1-4
Table 4 – Completed Construction Contracts	2-1
Table 5 – Ongoing and Upcoming Construction Contracts and their Status	2-2
Table 6 – Inner Harbor CSO Projects	3-2
Table 7 – Flushing Bay CSO Projects	3-4
Table 8 – Jamaica Tributaries CSO Projects	3-6
Table 9 – Newtown Creek CSO Projects	3-8
Table 10 – Westchester Creek CSO Projects	3-10
Table 11 – Jamaica Bay CSO Projects	3-13
Table 12 – Wards Island WWTP Projects	3-14
Table 13 – 2008 Modified CSO Consent Order Environmental Benefits Projects	3-17
Table 14 – Constructed Green Infrastructure Practices	3-19
Table 15 – Green Infrastructure Meetings	4-1
Table 16 –Community Outreach Email Correspondences This Quarter ( <b>Oct – Dec</b> 2015)	4-2
Table 17 – Key DEP Personnel for Contracts Subject to the CSO Consent Order	5-3
Table 18 – Action Items from Quarterly Progress Meeting	6-1

# 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, 2015 and June 30, 2015 toward complying with the Order's milestones. **DEP anticipates that a proposed 2016 CSO Order on Consent ("proposed draft consent order") will be available for public review and comment in the next quarter.** 

# **Critical Events This Quarter**

The following critical events occurred this quarter:

- 1. On October 5, 2015 DEC sent to DEP a letter discussing elements of an approvable LTCP.
- 2. On October 5, 2015 DEC sent to DEP recommendations for LTCP public meetings.
- 3. On October 14, 2015 DEP responded to DEC's comments on the Alley Creek LTCP (I.E).
- 4. On October 19, 2015 DEP sent a letter to DEC to document the decommissioning of the inflatable dams at RH-20 and NC-6 (III.E).
- 5. On October 22, 2015 DEP responded to comments for VIII.J.2. Newtown Creek Enhanced Aeration in Dutch Kills and Lower Newtown Creek Final Design. DEC sent additional comments on October 28, 2015 and DEP responded on December 29, 2015.
- 6. On October 22, 2015 DEP proposed to establish a milestone for completion of V.L.3. Flushing Bay Dredging for March 2019 as it is five years from effective date of permit March 7, 2014.
- 7. On October 30, 2015 DEP sent DEC letter for VIII.I.3. NC Enhanced Aeration in East Branch NTP Mod Request follow-up as well as a separate letter Certifying Milestone Completion for NTP.
- 8. On October 20, 2015 DEP sent DEC letter for Certification of Completion for XII.K.10 Updated Wet Weather Operating Plan for Jamaica Bay CSO 26<sup>th</sup> Ward WPCP. DEC acknowledged this on December 1, 2015.
- 9. On November 2, 2015 DEC acknowledges a Notice of Force Majeure for VI.H.4. Jamaica Tributaries Parallel 48 inch Siphon / Interceptor.
- 10. On November 2, 2015 DEC acknowledges a Notice of Force Majeure for VI.I.4. Jamaica Tributaries Bending Weirs.
- 11. On October 9, 2015 DEP issued a Notice of Force Majeure for VIII.K.4. Newtown Creek Bending Weirs/Floatables Control due to subsurface conditions and is acknowledged by DEC on November 2, 2015.

- 12. On October 26, 2015 DEC approved a proposed design change to the VI.I. Jamaica Tributaries Bending Weir project.
- 13. On November 9, 2015, DEC approved of DEP's proposed design changes to XII.I.3. 26<sup>th</sup> Ward HLSS Phase 1 Design Completion, and on November 12, 2015, DEP responded to DEC's comments on the other portion of the Design. On December 9, 2015 DEC requested an updated drainage plan.
- 14. On December 16, 2015 DEC approved the I.E.1. Spring Creek Disinfection Demo study in lieu of the disinfection pilot study in Alley Creek.
- 15. On December 28, 2015 DEP certified milestone completion for V.K.4. Flushing Bay Regulator Modifications NTP.
- 16. On December 29, 2015 DEP certified milestone completion for IX.F.2. Westchester Creek Pugsley Creek Parallel Interceptor Final Design Completion.
- 17. On December 29, 2015 DEP submitted NTP certification for IX.E.4. Westchester Creek modifications to CSO-29 and CSO-29A.
- 18. On December 30, 2015 DEP submitted 2015 survey results for V.I.5. Flushing Interceptor Sag.
- 19. On December 30, 2015 DEP issued a notice of Force Majeure for XII.K.7. Jamaica Bay CSO 26<sup>th</sup> Ward Preliminary Treatment Reliability Improvements
- 20. On September 4, 2015 DEC stated in a letter that they would be willing to approve DEP's modification request for the NTP of the Enhanced Aeration in the East Branch and Upper Newtown Creek to October 31, 2015 if the requested information is provided by November 1, 2015. The milestone date is modified to October 31, 2015 in the proposed draft consent order and the NTP was issued by that date.
- 21. DEC's September 4, 2015 response to DEP's April 30, 2015 modification request of December 31, 2015 for the Final Design Completion of the Pugsley Creek Parallel Interceptor stated that approval is pending submission of the requested information by November 1, 2015. The milestone date is modified to December 2015 in the proposed draft consent order and the work was completed by that date.

#### **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 **December 03, 2015** 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 **January** and **March 2016**:

The next Quarterly Progress Meeting between DEC and DEP will be held on March 2, 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.

**Table 1 – Milestones Certified This Quarter (Oct - Dec 2015)** 

LOCATION / PROJECT AREA	ITEM DESCRIPTION	MILESTONE DATE	ACTION REQUIRED	STATUS
Newtown Creek	Enhanced Aeration in East Branch/Upper Newtown, NTP	Oct 31, 2015	Issue Notice to Proceed to Construction	Complete
Jamaica Bay	26 <sup>th</sup> Ward WPCP Preliminary Treatment Reliability Improvements	Oct 31, 2015	Update WWOP to capture improved monitoring of 26W Wet Weather performance	Complete
Flushing Bay	Regulator Modifications	Dec 31, 2015	Issue Notice to Proceed to Construction	Complete
Westchester Creek	Pugsley Creek Parallel Interceptor	Dec 31, 2015	Final Design	Complete
Westchester Creek	Modifications to CSO-29 & CSO- 29A	Dec 31, 2015	Issue Notice to Proceed to Construction	Complete

**Table 2 – Milestones Next Quarter (Jan – Mar6Mar 2016)** 

LOCATION / PROJECT AREA	ITEM DESCRIPTION	MILESTONE DATE	ACTION REQUIRED	STATUS
Jamaica Bay	Primary Settling Tank Work	Jan 2016	Notice to Proceed to Construction	Awarding & Registering Contract
Jamaica Bay	26th Ward High Level Sewer Separation	Mar 2016	Construction NTP – Phase II	On Schedule
Flushing Bay	Environmental Dredging of Flushing Bay	Dec 2015 (modified in proposed draft consent order to June 2016)	Notice to Proceed	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
Westchester Creek	Pugsley Creek Parallel Interceptor  – Final Design Completion	Modification Request for December 2015	Complexity of design requires redesign and increased scope	Final Design Completion June 2015	DEP submitted Final Design Completion on Dec 29, 2015
Jamaica Tributaries	Bending Weirs – Construction Completion	Notice of Force Majeure Aug 18, 2015	Sinkhole during construction	Construction Completion Jun 30, 2016	Sinkhole has been repaired
Jamaica Tributaries	VI.H Parallel 48" Siphon / Interceptor	Notice of Force Majeure October 2015	Work embargo by National Grid during low temperatures < 25 degrees F	February 2017*	Force Majeure sent by DEP on Oct 13, 2015
Newtown Creek	VIII.K.4 Bending Weir / Floatables Control	Notice of Force Majeure October 2015	Subsurface obstructions at Q-1 regulator site that were not identified during design phase	December 2017*	Force Majeure sent by DEP on Oct 9, 2015
Jamaica Bay	XII.K.7 26 <sup>th</sup> Ward WWTP Preliminary Treatment Reliability Improvements (XII.C.7 in proposed draft consent order)	Notice of Force Majeure on December 2015	Discovery of an unfilled in portion of an abandoned outfall structure	July 2018	Force Majeure sent by DEP on Dec 30, 2015

<sup>\*</sup> indicates dates modified in the proposed draft consent order

# 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 below 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. Table 5 below identifies, by percentage, the estimated amount of construction that has been performed on projects that are in progress.

**Table 4 – Completed Construction Contracts** 

WATERBODY	ITEM DESCRIPTION	NOTICE TO PROCEED	CONSTRUCTION COMPLETION	CERTIFIED COMPLETION
Alley Creek	CSO Retention Facility	Dec 2006	Dec 2009	Mar 2011
Paerdegat	Structures and Equipment	Sep 2005	May 2011	May 2011
Basin	Dredging of Paerdegat Basin	Mar 2013	Mar 2015	Nov 2014
Jamaica Tributaries	Destratification Facility	Sep 2010	Mar 2012	Mar 2012
Coney	Avenue V Pumping Station Upgrade	Nov 2005	Jun 2012	Jun 2012
Island Creek	Avenue V Force Mains	Jul 2007	Jun 2012	Jun 2012
Newtown	Enhanced Aeration Lower English Kills	Apr 2013	Mar 2014	Recertified May 2014
Creek	GI Demonstration	Oct 2012	May 2013	May 2013
Bronx River	Floatables Control	Jun 2009	Oct 2012	Oct 2012
Hutchinson River	GI Demonstration	Aug 2012	Apr 2013	Apr 2013
Jamaica	Hendrix Creek Dredging	Feb 2010	Feb 2012	Oct 2011
Bay	GI Demonstration 26th Ward	Jun 2012	Dec 2012	Dec 2012
Flushing Bay	Tallman Island – Whitestone Interceptor	Dec 2011	July 2015	Dec 2014
Inner	Gowanus Flushing Tunnel Modernization	Feb 2010	Feb 2015	Feb 2015
Harbor	Gowanus Pumping Station Reconstruction	Feb 2010	Feb 2015	Feb 2015

Table 5 – Ongoing and Upcoming Construction Contracts and their Status

WATERBODY	ITEM DESCRIPTION	NOTICE TO PROCEED	CONSTRUCTION COMPLETION	PROJECTED COMPLETION	% OF TIME ELAPSED	% OF CONSTRUCTION COMPLETED <sup>(1)</sup>
	Flushing Interceptor	TBD	TBD	-	-	-
	Divert Low-Lying Sewers	Dec 2014	Dec 2016	Dec 2016	50%	5%
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	Mar 2016	TBD <sup>(2)</sup>	TBD <sup>(2)</sup>	-	-
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	18%	12%
Westchester	Modifications to CSO-29 & 29A	Dec 2015	Dec 2019	Dec 2019	-	-
Creek	Pugsley Creek Parallel Interceptor	Jun 2016	Dec 2019	Dec 2019	-	-
	26 <sup>th</sup> Ward HLSS Phase 1	Mar 2016	Dec 2018	Dec 2018	-	-
	26 <sup>th</sup> Ward HLSS Phase 2	Mar 2018	Dec 2020	Dec 2020	-	-
	26 <sup>th</sup> Ward HLSS Phase 3	Mar 2020	Dec 2022	Dec 2022	-	-
Jamaica Bay	26 <sup>th</sup> Ward Low Level MSPs	Aug 2012	Apr 2015 <sup>(3)</sup>	Apr 2015	97%	100%
,	26th Ward, High Level MSP	June 2015 <sup>(4)</sup>	July 2018 <sup>(3)</sup>	Aug 2018 <sup>(3)</sup>	25%	0%
	26 <sup>th</sup> Ward PSTs 1-5	Jan 2016 <sup>(4)</sup>	Jul 19, 2020 <sup>(3)</sup>	Nov 2019 <sup>(3)</sup>	-	-
	Rockaway WWTP Conveyance		Dec 2017	Dec 2017	-	-
WI WWTP	MSP Replacement	Mar 2015	Jun 2017	Dec 2017 (Proposed draft Consent Order Date)	41%	14%
	Bar Screen	Dec 2014	June 2018			

<sup>(1)</sup> Percentage Construction Completion is tracked based on cost incurred.

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

<sup>(3)</sup> 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:

- 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 completion on February 27, 2015 and DEC accepted on April 13, 2015.
- 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 completion on February 27, 2015 and DEC accepted on April 13, 2015.
- 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.

## 3.2.

# 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 requirements of 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 December 31, 2015.
  - Certification of milestone completion issued to DEC on December 28, 2015.

# **Environmental Dredging**

Final design is complete; in the last quarter, the bid package for the Construction and Construction Management Contracts were prepared. The construction contract was advertised on November 30, 2015; bids were due January 5, 2016. The CM contract was advertised on January 7, 2016 and proposals are due January 29, 2016.

# **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 as required.
- Regulator Modifications
  - Design was completed on March 20, 2015.
- Environmental Dredging
  - Proceed with procurement of the construction and construction management contracts.

## **Anticipated Construction Activities for Next Quarter**

- Divert Low-Lying Sewers
  - None, Contractor to resume work in March 2016 due to cold weather restrictions.
- Regulator Modifications
  - Contractor mobilization for start of construction work.

**Table 6 – Flushing Bay CSO Projects** 

	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 <sup>th</sup> Avenue	Regulator BB-02. Berrian Blvd and 19 <sup>th</sup> Ave between 43 <sup>rd</sup> St. and 45 <sup>th</sup> St.	Five of ten regulators along 108th 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 lowest bid)
Status	TOC (PW-088-03) issued for potential design activities described above	In Construction	NTP issued on Dec 28, 2015	Design Completed
Other Issues	None	Contractor to resume work in March 2016	None	None

## 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.
  - o 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 in order 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
  - Placed concrete base slab for North Receiver Pit;
  - Completed constructing the for Launch Pit
  - Commenced excavation of South receiving Pit
- 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
  - Prepare North Receiver Pit for receipt of microtunnel machine
  - Prepare Launch Pit for launch of microtunnel machine
  - Continue work on South Receiver Pit
- Bending Weirs
  - **Install bending weirs** at JA-3 and JA-14.
  - Continue modifying the regulator at JA-6 and prepare for bending weir installation.

**Table 7 – Jamaica Tributaries CSO Projects** 

	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		

## 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

All three contracts (G, H &E) were registered. NTP was issued on Oct. 30, 2015.

- **The bid documents** for the Enhanced Aeration in Dutch Kills and portions of Newtown Creek project (CSO-NC-4) **are under legal review.**
- Began providing 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.

- Begin mobilization to start construction activities under the East Branch Aeration contract including submission of shop drawings and procurement of required permits.
- Bending Weirs and Floatables Control
  - Continue construction activities & review of construction contractor submittals.

Table 8 - Newtown Creek CSO Projects

	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	The design of the blower building and aeration system submitted June 30, 2014.	The design of the blower building and aeration system continues	Design of bending weirs and baffles, to reduce overflows/floatables
Construction Cost	\$14,676,445	\$31,695,425	\$41,900,419
Status	Design	Design	Construction
Other Issues	Potential delay to NTP if approval of design is not timely provided by NYC Public Design Commission and/or City Planning		

## 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
  - Contract was awarded and registered and NTP was issued on Dec. 29, 2015. DEP awarded construction contract to Primer Construction on November 13, 2015 and issued Notice to Proceed to Construction on December 29, 2015.

Pugsley Creek Parallel Interceptor

- Design certified complete on December 29, 2015.

# **Anticipated Design and Construction Activities for Next Quarter**

- Modifications to CSO-29 and 29A
  - Provide DSDC services.

    Begin mobilization to start construction activities under the East Branch Aeration contract including submission of shop drawings and procurement of required permits. Review construction contractor submittals.
- Pugsley Creek Parallel Interceptor
  - Bid the contract.

**Table 9 – Westchester Creek CSO Projects** 

	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	Issued NTP to Construction	Design at DDC is complete
Construction Cost	<b>\$14.5</b> Million	\$70 Million (Estimated)
Status	Construction	Design is complete
Other Issues		None

# 3.6. Jamaica Bay CSO

The Jamaica Bay CSO Facility Planning area includes the drainage areas of the 26<sup>th</sup> 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 26<sup>th</sup> 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**

- 26<sup>th</sup> Ward High Level Sewer Separation
  - Final Design has been completed for Phases 1a and 1b. Certification letter from DEC received on April 1, 2015.
  - Survey received for Phase 2a and 2b
  - Survey for Phases 3a and 3b have been received.
- 26<sup>th</sup> Ward Preliminary Treatment Reliability Improvements
  - On December 2014, certified proposed 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) Bids received June 18, 2015.
  - HLMSP work (26W-21) NTP on June 01, 2015.

## **Construction Work Performed During This Quarter**

- Hendrix Street Canal Dredging
  - Finalized and submitted Post Dredge Monitoring Report No. 5 to DEC.
  - Finalized Post Dredge Monitoring Report No. 6 and submitted to DEC.

- 26<sup>th</sup> Ward Preliminary Treatment Reliability Improvements
  - PST work (26W-20): Pending Award/Registration
  - HLMSP work (26W-21): Continue working on wet well repair

# **Anticipated Design Activities for Next Quarter**

- 26<sup>th</sup> Ward High Level Sewer Separation
  - NTP is expected for the phase 1 work.
  - Survey is expected to be received for Phase 2b. Preliminary Design to continue for Phases 2a, 2b, 3a, and 3b.

# **Anticipated Construction Activities for Next Quarter**

- Hendrix Street Canal Dredging
  - Post Dredge Monitoring Report No. 6 was submitted to DEC which satisfies all of the requirements of Natural Resources Permit Condition No. 3 included in the original DEC Permit. Accordingly, no additional field work or Post Dredge Monitoring Reports will be prepared or submitted.
- 26<sup>th</sup> Ward Preliminary Treatment Reliability Improvements
  - PST work (26W-20) Award/Registration
  - HLMSP work (26W-21) Continue working on wet well repair and MSP replacement.

**Table 10 – Jamaica Bay CSO Projects** 

	Rockaway WWTP Conveyance Improvements	26 <sup>th</sup> Ward HLSS	26 <sup>th</sup> 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	Fresh Creek, Brooklyn	26 <sup>th</sup> Ward WWTP, Brooklyn
Actions	None	None	-
Construction Cost	TBD	\$50 million for Phases 1a and 1b (estimated) \$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 Procurement/Award (26W-20)
Other Issues			Modifications to Consent Order and milestones for this project were effective Mar 26, 2015.

# 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

## **Construction Work Performed During This Quarter**

- MSP Replacement at Wards Island WWTP
  - Commenced installation of MSP #5, including electrical work

# **Anticipated Construction Activities for Next Quarter**

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

**Table 11 – Wards Island WWTP Projects** 

	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
Actions	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
Status	The first existing MSP has been released for construction. The contractor commenced and the MSP and Knife Gate are in position.  Due to a change order in the contract for the connecting spool piece, the completion of the first pump is delayed.	Shop witness schedule first week of July 2015 for one screen for each chamber.
Other Issues		Jett requested additional cost to installed BGC bar screen.

# 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 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; \$457,040 has been invoiced through July 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 shade-tolerance roof is being conducted concurrently with the previously constructed sections.

#### 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. 90% 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. Alternative drainage conveyance into the sewer system will not be required. Design undergoing revision to comply with DOT requests and to avoid discovered underground utilities. Design expected to be finalized winter 2015, with construction to begin immediately after. The total project value is \$448,803; \$75,000 has been invoiced to date as startup fund and subsequent bills have been deducted from the fund. \$2,341 remains available in Audubon's startup fund.

# Regional Plan Association

Two Sponge Park<sup>™</sup> 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. The total project value is \$583,470 (\$873,470 including EPA Grant); \$415,527 has been billed through November 2015.

# 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. **The remainder of the grant is in the process of being transferred from Unisphere to the City Parks Foundation due to Unisphere Inc starting to be disbanded.** 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. Design for the Bronx High School of Science were completed and awaiting the completion of the current school session to begin construction. Design for Flushing International High School were completed and construction is scheduled to begin by March 2016. Total project value is \$893,493; \$ 274,091 has been invoiced through October 2015.

Table 12 – 2008 Modified CSO Consent Order Environmental Benefits Projects

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 (\$448,803)	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 <b>JTD: \$274,091</b> <b>This Qtr: \$68,983</b> Next Qtr: \$100,000	Budget: \$2,213,583 JTD: \$1,415,717 This Qtr: \$0 Next Qtr: \$50,000	Budget: \$583,470 <b>JTD:</b> \$415,527 <b>This Qtr:</b> \$ 1,786 Next Qtr: \$50,000	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: at 100% design, construction to start March 2016	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	

# 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-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 **Fourth** Quarter of **2015**, 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	Constructed GI Practices	GI Practices in Construction	Total Impervious Area Managed (ac)
Bronx River	46	1	11.9
East River	56	13	11.6
Flushing Bay	193	405	47.2
Flushing Creek	13	3	3.3
Gowanus Canal	29	82	9.1
Hutchinson River	22	125	17.8
Jamaica Bay	58	875	100.8
Newtown Creek	25	1,159	96.5
Westchester Creek	3	0	0.3
Total	445	2,663	297.1

- The **297.1** acres represent 0.38% 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 **Fourth** Quarter of **2015** 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 Oct Presentation 7 Cities Alive Design Charrette, Manhattan 25 8 Borough Budget Consultations, Queens Meeting 15 Nov 6 S.W.I.M. Public Meeting Meeting 30 13 Greentech Investors Forum Presentation *10* Dec 2 Green Infrastructure Grant Workshop, Manhattan 40 Presentation

**Table 15 – Green Infrastructure Meetings** 

#### LTCP Education and Outreach Activities

November 4, 2015: DEP hosted the first public meeting for the water quality planning process for long term control of CSOs in Coney Island Creek. The two-hour event, held at the PS 90, Brooklyn, provided overview information about DEP's LTCP Program, presented information on the Coney Island Creek watershed characteristics and status of waterbody improvement projects, obtained public information on waterbody uses in Coney Island Creek, and described additional opportunities for public input and outreach. Approximately 17 people from the public attended the event as well as representatives from the Department of Environmental Protection and the New York State Department of Environmental Conservation.

November 17, 2015: DEP hosted the third public meeting for the Alley Creek long term control plan at Queens Borough Community College, Bayside, NY. DEP staff presented the proposed alternatives/projects submitted to NYSDEC. Approximately 16 people from the public attended the event as well as representatives from the Department of Environmental Protection and the New York State Department of Environmental Conservation.

## **Planned Activities Not Conducted During This Quarter**

• DEP conducted all planned activities this quarter.

## **Summary of Comments Received**

■ DEP received comments (via e-mail) on the Hutchinson River, Flushing Bay/Flushing Creek meetings from the following: Guardians of Flushing Bay; Friends of Flushing Creek; Empire Dragon Boat Team; Save the Sound; School of Earth and Environmental Sciences Queens College; Brooklyn Community Board 11 and Stormwater Infrastructure Matters (S.W.I.M.) Coalition.

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

**Table 16 – Community Outreach Email Correspondence this Quarter (Oct – Dec 2015)** 

	Oct	Nov	Dec	Sub-Totals
RSVP to LTCP Meeting	2	9	5	16
Request to be Added	1	1	3	5
Request to be Deleted	0	0	0	0
Press Inquiries	0	0	0	0
Public Comment	12	3	8	23
General Information	1	1	0	2
Sub-Totals	16	14	16	46

# 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

DIi A	Donicot	DEP Responsible Personnel		
Planning Area	Project	Bureau	Chief	APM
	CSO-DRDG: Gowanus Dredging		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/Harvey
	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
Tamaiaa	CS-FB-SEW: 26th Ward / Fresh Creek HLSS	BWSO	DeLillo	Gordon/Garin
Jamaica Bay	CO 26W-128: Low Level Main Sewage Pumps	BEDC	Solimando	Kharivala
	26W-20: 26th Ward Wet Weather Stabilization	BEDC	Solimando	D'Attile
	26W-21: 26th Ward High Level Main Sewage Pumps	BEDC	Solimando	Heim
Wards Island	Reconstruction of Main Sewage Pumps (MSP)	BWT	Lochan	A. Parada
vv ards island	Bar Screen Replacement	BEDC	Moriarty	N. Shah

# 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** 

Planning Area	Responsible Party	Required Action	Status
Westchester Creek	DEC	Send approval letter on Pugsley     Creek Parallel Sewer Final Design     modification request.	Milestone dates for final design, NTP, and construction completion are modified in the proposed draft consent order.
Newtown Creek	DEC	<ul> <li>Coordinate meeting on Superfund between DEP, DEC and EPA (not strictly related to CSO Order).</li> <li>Send approval letter on Dutch Kills and Lower NC Aeration NTP modification request.</li> </ul>	In Progress  Milestone dates are modified in the proposed draft consent order.
Flushing Bay/Creek	DEP DEP	<ul> <li>Provide details on delays to dredging NTP during technical meeting scheduled Dec 8, 2015.</li> <li>Provide details on contractor issues for Low Lying Sewer Diversion project during technical meeting scheduled Dec 8, 2015.</li> </ul>	Completed Completed
Jamaica Bay/Tribs	DEP DEP DEP	<ul> <li>Forward updated 26th Ward WWTP's WWOP to DEC.</li> <li>Check on need for interim limits for 26th Ward primary settling tank project</li> <li>Submit revised Spring Creek disinfection pilot study in response to DEC's comments.</li> </ul>	Completed  In Progress  Completed

Wards Island WWTP	DEP	Provide details on potential delay to Main Sewage Pump Replacement project during technical meeting scheduled Dec 8, 2015.	Completed
EBPs	DEP	Send schedule for Audubon to DEC.	In Progress
Gowanus Canal & Bronx River LTCPs	DEC	Have the LTCPs undergo further review by their upper management.	In Progress
Misc	DEP	• Provide flow monitoring and influent sampling data from LTCP sampling efforts (ongoing)	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 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.
- 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.
- 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