



**NEW YORK CITY  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF ENVIRONMENTAL ENGINEERING  
DEC CASE # CO2-20000107-8**

# **Combined Sewer Overflow Order on Consent Quarterly Progress Report – Second Quarter 2005**



**July 2005**



**DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION**

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JUL 29 2005

**RE: Order on Consent (CSO Order)  
DEC Case # CO2-20000107-8  
Citywide CSO Program - Quarterly Report**

Dear Mr. Elburn:

In accordance with Section IV, Paragraphs A-C of the above referenced proposed Consent Order, the New York City Department of Environmental Protection hereby submits the Citywide CSO Quarterly Report for the period of April 1, 2005 through June 30, 2005.

Should you require further information, please contact me at (718) 595-5973.

Very truly yours,

*Mark K... For J.M.*

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City of New York  
Department of Environmental Protection  
Bureau of Environmental Engineering

CSO Order on Consent  
DEC Case # CO2-20000107-8

QUARTERLY PROGRESS REPORT  
SECOND QUARTER 2005  
(April 1 - June 30)

July 29, 2005

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## 1.0. Executive Summary

The Combined Sewer Overflow “CSO” Order on Consent, DEC Case # CO2-20000107-8 (the “Order”); was entered into by the City of New York (“City”) and the New York State Department of Environmental Conservation (“DEC”) on January 14, 2005. Pursuant to Section IV, Paragraph A of the Order, the City shall submit quarterly status reports to DEC (“Quarterly Reports”). The Quarterly Reports shall describe the actions that have been taken toward achieving compliance with this Order during the past three-month period. This Quarterly Report sets forth the status and progress of the New York City Department of Environmental Protection (“DEP”) in complying with the milestones set forth in the Order during the period from April 1, 2005 through June 30, 2005.

### Major Actions This Quarter:

Table 1 presents the milestones that were met by DEP this quarter and Table 2 shows milestones that were postponed. For each milestone listed in Table 1 below, either met or postponed, written notification was submitted by DEP to DEC. Copies of these certification letters are provided in Appendix A.

**Table 1 – Milestones Met (April 2005 - July 2005)**

LOCATION/PROJECT AREA	ITEM DESCRIPTION	ACTION REQUIRED	DATE TO BE SUBMITTED
Outer Harbor	Regulator Improvements – Fixed Orifices	Final Design Completion Including CPM Analysis	April 2005
Hutchinson River	Phase I of Storage Facility	Initiate Final Design	April 2005
Bronx River	Floatables Control	Initiate Final Design	April 2005
Jamaica Tributaries	Meadowmere and Warnerville DWO Abatement	Final Design Completion Including CPM Analysis	May 2005
Flushing Bay	CD-8 Manual Sluice Gates	Construction Completion	June 2005

**Table 2 – Milestones Postponed**

LOCATION / PROJECT AREA	ITEM DESCRIPTION	ACTION REQUIRED	REASON FOR POSTPONMENT	DATE OF POSTPONMENT
Flushing Bay	Mechanical Structures	Construction Completion	Force Majeure	September 2004

As stipulated by the Order, DEP and DEC held a Quarterly Progress Meeting on May 5, 2005. The meeting was held at Hazen and Sawyer's offices in New York, NY to discuss issues related to the Order and review milestones met during the last quarter.

DEP continued to make progress in the planning, design and construction of its CSO facilities during this quarter, as documented in this report.

**Major Actions Next Quarter:**

The following major actions are expected to occur between July 2005 and September 2005:

- ◆ Hold the next Quarterly Progress Meeting between DEC and DEP on August 4<sup>th</sup> at DEP's offices in Kingston, NY.
- ◆ Advertise and receive bids on Coney Island Creek – Avenue V Pumping Station contracts.
- ◆ Submit written notification to DEC on the following upcoming milestones:

**Table 3 – Milestones to be Met Next Quarter**

<b>LOCATION/PROJECT AREA</b>	<b>ITEM DESCRIPTION</b>	<b>ACTION REQUIRED</b>	<b>DATE TO BE SUBMITTED</b>
Inner Harbor	In-line storage	Initiate Final Design	July 2005
Outer Harbor	Throttling Facility	Final Design Completion Including CPM Analysis	August 2005
Paerdegat Basin	Structures and Equipment	Notice to Proceed to Construction	September 2005

## 2.0. Construction Contracts

The 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. The table below provides a list of construction contracts, identified in Appendix A of the Order, necessary to fulfill the requirements of the Order. This table identifies, by percentage, the estimated amount of construction that has been completed.

**Table 4 – Construction Contracts and their Status**

<b>WATERBODY</b>	<b>ITEM DESCRIPTION</b>	<b>NOTICE TO PROCEED</b>	<b>CONSTRUCTION COMPLETION</b>	<b>PERCENTAGE OF TIME ELAPSED</b>	<b>PERCENTAGE OF CONSTRUCTION COMPLETED</b>
<b>Alley Creek</b>	Outfall and Sewer System Improvements	Dec 2002	Dec 2006	62%	68%
	CSO Retention Facility	Dec 2006	Dec 2009	-	-
<b>Outer Harbor</b>	Regulator Improvements - Fixed Orifices	Feb 2006	Jul 2008	-	-
	Regulator Improvements - Automation	Nov 2007	Jun 2010	-	-
	Port Richmond Throttling Facility	Jun 2006	Dec 2008	-	-
	In-Line Storage	Aug 2007	Aug 2010	-	-
<b>Inner Harbor</b>	Regulator Improvements - Fixed Orifices	Feb 2003	Apr 2006	74%	99%
	Regulator Improvements - Automation	Nov 2007	Jun 2010	-	-
	In-Line Storage	Aug 2007	Aug 2010	-	-
<b>Paerdegat Basin</b>	Influent Channel	Feb 1999	Feb 2002	100%	100%
	Foundations and Substructures	Jun 2002	Dec 2006	67%	91%
	Structures and Equipment	Sep 2005	Aug 2011	-	-
<b>Flushing Bay</b>	Reroute and Construct Effluent Channel	Jun 1995	Jun 1996	100%	100%
	Relocate Ballfields	Apr 1995	Aug 1995	100%	100%
	Storage Tank	Jul 1997	Aug 2001	100%	100%
	Mechanical Structures	Mar 2002	Dec 2004	100%	90%
	Tide Gates	Dec 2000	Apr 2002	100%	100%
	Manual Sluice Gates	Feb 2004	Jun 2005	100%	100%

<b>Jamaica Tributaries</b>	Meadowmere & Warnerville DWO Abatement	Mar 2006	Mar 2009		-
	Expansion of Wet Weather Capacity of Jamaica WPCP	Jun 2012	Jun 2015		-
	De-stratification Facility	Aug 2007	Dec 2008		-
	Regulator Automation	Nov 2007	Jun 2010		-
<b>Coney Island Creek</b>	Avenue V Pumping Station Upgrade	Nov 2005	Apr 2011		-
	Avenue V Force Main	Jul 2007	Jun 2012		-
<b>Newtown Creek</b>	Aeration Zone I	Dec 2005	Dec 2008		-
	Aeration Zone II	Jun 2011	Jun 2014		-
	Relief Sewer / Regulator Modification	Jun 2010	Jun 2014		-
	Throttling Facility	Jun 2009	Dec 2012		-
	CSO Storage Facility	Dec 2015	Dec 2022		-
<b>Westchester Creek</b>	Phase I (Influent Sewers)	Jun 2011	Jun 2015		-
	CSO Storage Facility	Dec 2015	Dec 2022		-
<b>Bronx River</b>	Floatables Control	Jun 2009	Jun 2012		-
<b>Hutchinson River</b>	Phase I of the Storage Facility	Jun 2011	Jun 2015		-
	Future Phases	Dec 2016	Dec 2023		-
<b>Jamaica Bay</b>	Spring Creek AWPCP Upgrade	Mar 2003	Apr 2007	57%	65%
	26th Ward Drainage Area Sewer Cleaning and Evaluation	Jun 2008	Jun 2010		-
	Hendrix Creek Dredging	Jun 2008	Jun 2010		-
	26th Ward Wet Weather Expansion	Jun 2011	Dec 2015		-

## 3.0. Detailed Description of Work Performed

### 3.1. Alley Creek CSO

The Alley Creek CSO Facilities Planning area consists of the drainage area of CSO Outfall TI-008, which discharges into Alley Creek at a location just south of Northern Boulevard on the west bank of Alley Creek. Little Neck Bay and Alley Creek receive discharges from 31 stormwater outfalls, as well as CSO Outfall TI-008; however, discharges from CSO Outfall TI-008 were determined to be the primary cause of water quality degradation within Alley Creek. CSO Outfall TI-008 serves a drainage area of approximately 1,975 acres within the Tallman Island Water Pollution Control Plant (WPCP) service area in the Borough of Queens. The Alley Creek Drainage Area Improvements/CSO Abatement Facilities Project, which has been designated as Phase I of the comprehensive Alley Creek CSO Facilities Plan, will be constructed in two stages:

1. Alley Creek Drainage Area Improvements (Stage 1, Contract ER-AC1) and,
2. Alley Creek CSO Abatement Facilities (Stage 2, Contract ER-AC2)

This section reports on the progress of Phase I, Stages 1 and 2 of the Alley Creek CSO Abatement Facilities Plan.

Phase I, Stage 1 (Contract ER-AC1) includes the construction of additional stormwater sewers and combined sewers, a double-barrel outfall sewer, an outfall structure, and a 5 million gallon CSO storage facility to substantially eliminate street flooding and sewer surcharging; and to abate CSO discharges into Alley Creek within the CSO Outfall TI-008 drainage area.

Phase I, Stage 2 (Contract ER-AC2) includes activation of the 5 MG CSO storage facility and upgrading the Old Douglaston Pumping Station to enhance the station's reliability to pump the captured combined sewage to the interceptor system for conveyance to the Tallman Island WPCP for treatment.

### Work Performed During This Quarter

#### *Design*

- ◆ Design of Stage 2 (Contract ER-AC2) continued. The 95 percent complete contract documents were submitted to the DEP for review at the end of April 2005.
- ◆ In mid-May 2005, a revised construction cost estimate for Stage 2 (Contract ER-AC2) was submitted to the DEP based on the 95 percent complete contract documents.
- ◆ Based on discussions with the NYCDPR and Alley Pond Environmental Center, the DEP and URS determined that rehabilitation of existing CSO Outfall TI-008 under Stage 2 (Contract ER-AC2) will include construction of a new wooden observation deck along the sides of the rehabilitated wing walls.
- ◆ DEP and URS determined that rehabilitation of the existing 10'-0" W x 7'-6" H outfall sewer under Stage 2 (Contract ER-AC2) will be limited to 600 feet of the sewer located immediately upstream of existing CSO Outfall TI-008.

- ◆ In mid-June 2005, a draft NYC Art Commission (NYCAC) Application Form and supporting materials (site photographs, contract drawings and renderings of proposed facilities including perspective views) for Stage 2 (Contract ER-AC2) were submitted to the DEP for review. The goal is to submit the documents to the NYCAC for review by the Commission in September or October 2005.
- ◆ Preparations of applications to secure an air discharge permit from the NYSDEC and a NYC building permit for Stage 2 (Contract ER-AC2) were initiated.
- ◆ Dvirka and Bartilucci Consulting Engineers performed a constructability review of Stage 2 (Contract ER-AC2). Results of this review are scheduled to be provided to URS in early July 2005.

### *Construction*

- ◆ Construction of Stage 1 (Contract ER-AC1) continued. The principal work involved the construction of sections of the pile-supported 16'-0" W x 7'-6" H double-barrel outfall sewer located west of the Cross Island Parkway (CIP) and north of Northern Boulevard, construction of the pile-supported 16'-0" W x 7'-6" H double-barrel outfall sewer crossing under Northern Boulevard, construction of the elevated section of the 20'-0" W x 7'-9" H double-barrel outfall sewer located above the CSO storage facility on the north side of Northern Boulevard, rehabilitation of section of the existing 10'-0" W x 7'-6" H outfall sewer located immediately downstream of Chamber No. 6 (intersection of 46<sup>th</sup> Avenue and 223<sup>rd</sup> Street) which is to remain in place, rehabilitation of a section of the existing 6'-0" W x 8'-0" H sewer where it connects to an existing chamber at the intersection of 46<sup>th</sup> Avenue and 223<sup>rd</sup> Street, and planting of street trees and restoration of areas located upstream of the intersection of 46<sup>th</sup> Avenue and 223<sup>rd</sup> Street. Construction is currently about 64 percent complete.
- ◆ Construction of Stage 2 (Contract ER-AC2) has not yet been initiated.

### **Missed Milestones**

- ◆ There are no missed milestones.

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

- ◆ Construction of Stage 1 (Contract ER-AC1) will continue. The principal work will include construction of sections of the pile-supported 16'-0" W x 7'-6" H double-barrel outfall sewer, construction of the elevated sections of the 20'-0" W x 7'-9" H double-barrel outfall sewer located above the CSO storage facility, construction of sections of the 16'-0" W x 7'-6" H double-barrel outfall sewer crossings of the CIP and Northern Boulevard, construction of the CSO storage facility, and construction of the new outfall structure on the west bank of Alley Creek.
- ◆ DEP will complete their review of the 95 percent complete contract documents of Stage 2 (Contract ER-AC2), and URS will finalize and submit the contract documents for final review by the DEP and for Law Department review.
- ◆ The construction cost estimate for Stage 2 (Contract ER-AC2) will be finalized.

- ◆ The NYCAC Application Form complete with supporting materials for Stage 2 (Contract ER-AC2) will be finalized and submitted to the NYCAC.
- ◆ Draft applications to secure an air discharge permit from the NYSDEC and a NYC building permit for Stage 2 (Contract ER-AC2) will be submitted to the DEP for review.
- ◆ Dvirka and Bartilucci Consulting Engineers will provide the results of the constructability review of Stage 2 (Contract ER-AC2), and URS will address the review comments.

**Table 5 – Alley Creek CSO Project**

	<i>Phase I, Stage 1</i>	<i>Phase I, Stage 2</i>
Plan Elements:	Alley Creek Drainage Area Improvements	Alley Creek CSO Abatement Facilities
Location:	46th Avenue, 53rd Avenue, 56th Avenue, Bell Boulevard, Luke Place, 214th Street, 216th Street, 217th Street, Springfield Boulevard, Cross Island Parkway, Northern Boulevard and Alley Park in Bayside, Queens	Northern Boulevard and Alley Park in Bayside, Queens
Actions:	Construction of additional stormwater and combined sewers, catch basins, outfall sewer and outfall structure to effect improved drainage in areas upstream of CSO Outfall TI-008 in Bayside, Queens; construction of 5 MG CSO storage facility for CSO abatement within Alley Creek	Design and construction of modifications to the Old Douglaston Pumping Station including air treatment facilities to treat air exhausted from the CSO storage facility and the pumping station; design and construction of hydraulic control structures and facilities to activate the 5 MG CSO storage facility constructed under Phase I, Stage 1
Cost:	\$100,000,000	\$24,500,000
Status:	Under construction by Carp Construction Corporation, 64% complete	95% complete contract documents under review by the DEP

### **3.2. Outer Harbor CSO**

The Outer Harbor CSO Facility Planning area consists of the drainage areas of the Port Richmond, Oakwood Beach, Owls Head and Coney Island (separately sewered area) Water Pollution Control Plants (WPCPs) and their associated sewers and pumping stations. The receiving waters of the study area include the New York limits of the Raritan Bay, Arthur Kill, Kill Van Kull, Upper New York Bay waters to the boundary of the Inner Harbor CSO Project, the Narrows, Gravesend Bay, Lower New York Bay, Richmond Creek and Lemon Creek. This section reports on the progress for Phase I - Regulator Improvements (Fixed Orifices), Phase II - Throttling Facility and Phase III – In-Line Storage. In addition, the automation of key regulators will be accomplished under the Citywide SCADA Project.

Phase I will provide improvements to 32 regulators in the Outer Harbor study area. Phase II entails the construction of a throttling facility in the Port Richmond east interceptor, which will provide the ability to store up to 5 MG upstream of the Port Richmond WPCP. Phase III proposes in-line storage at two inflatable dam locations in Outer Harbor. The Citywide SCADA Project will automate regulators in Outer Harbor.

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

##### *Planning*

- ◆ Maintenance and protection of traffic (MPT) plans have been developed for the Phase II construction work and traffic stipulations have not been issued by NYCDOT.
- ◆ A Memorandum of Understanding (MOU) for Phase I construction on NYCDPR property is pending signature by DPR and DEP Legal.
- ◆ In a letter dated May 26<sup>th</sup> 2005, DEP submitted a determination on the implementation of Phase III – In-line Storage (ILS) in accordance with footnote 2 in Appendix A of the Consent Order. Based on DEP's technical review of site specific characteristics, it was determined that the ILS facilities in Outer Harbor would not be constructed due to hydraulic issues.

##### *Design*

- ◆ Final design of Regulator Automation continued under the BWT's Citywide SCADA Contract.
- ◆ The milestone for Final Design Completion Including CPM Analysis for Phase I – Regulator Improvements – Fixed Orifices was met in April 2005. DEP certified completion of this milestone in a letter to DEC dated April 22, 2005. Plans and specification were transmitted to both DEC and EFC.
- ◆ The Phase II (Throttling Facility) 90% review comments are being incorporated into the 100% final design documents.

##### *Construction*

- ◆ Construction has not yet initiated for this project.

### **Missed Milestones**

- ◆ There are no missed milestones.

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

- ◆ The final design plans and specifications will be submitted to DEC and EFC for Phase II – Port Richmond Throttling Facility in August 2005 as required by the Order.
- ◆ MOU between DEP and DPR to be signed.
- ◆ Obtain traffic stipulations from NYCDOT for Phase II.
- ◆ Finalize Environmental Assessment Statement (EAS) for Phase II.

**Table 6 – Outer Harbor CSO Project**

	<i>Phase I</i>	<i>Phase II</i>	<i>Phase III</i>	<i>Citywide SCADA</i>
Plan Elements:	Regulator Improvements – Fixed Orifices	Throttling Facility	In-Line Storage	Regulator Improvements – Automation
Location:	32 regulator sites throughout Brooklyn and Staten Island	Port Richmond WPCP	Owls Head: OH-6C P. Richmond: PR-6W	Regulator sites throughout Brooklyn and Staten Island
Actions:	Conversion to manually operated sluice gates, replacement of stop plank guides, manhole steps, standardization of manhole cover sizes	Installation of throttling facility and sluice gate in Port Richmond east interceptor sewer	Installation of two inflatable dams in the combined sewer system	Conversion to automated regulators
Construction Cost:	\$5,300,000	\$2,700,000	\$3,100,000	TBD
Status:	Final Design – 100% Complete	Final Design – 90% Complete	Eliminated due to hydraulic issues.	Final Design – 15% Complete
Other Issues:	-	-	Submitted determination letter and technical analysis to DEC to eliminate this phase of work.	-

### **3.3. Inner Harbor CSO**

The Inner Harbor CSO Facility Planning area consists of the drainage areas of the North River, Newtown Creek, and Red Hook Water Pollution Control Plants (WPCPs) 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. This section reports on the progress of Phase I – Regulator Improvements, Phase II – Throttling Facilities, and Phase III – In-Line Storage. In addition, the automation of key regulators will be accomplished under the Citywide SCADA Project.

Phase I provides improvements to 72 regulators in the Inner Harbor study area. Phase II entails the design and construction of throttling facilities at the Manhattan Pumping Station, Newtown Creek WPCP, Red Hook WPCP, and North River WPCP. Phase III provides in-line storage at two inflatable dam locations in the study area. The Citywide SCADA Project will automate regulators in Inner Harbor.

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

##### *Planning*

- ◆ Drainage plan calculations for the proposed Phase III – In-line storage facilities were reviewed and approved by the Bureau of Water and Sewer Operations (BWSO). A letter was sent to DEC recommending moving ahead with final design.

##### *Design*

- ◆ Final design of Regulator Automation continued.

##### *Construction*

- ◆ Work is nearing completion on the construction of Phase I, which is broken up into two contracts: Brooklyn Regulator Improvements (32 regulators) and Manhattan Regulator Improvements (40 regulators).

#### **Missed Milestones**

- ◆ There are no missed milestones.

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

- ◆ Initiation of final design for Phase III – In-Line Storage, in accordance with Consent Order milestone.

**Table 7 – Inner Harbor CSO Project**

	<i>Phase I</i>	<i>Phase II</i>	<i>Phase III</i>	<i>Citywide SCADA</i>
Plan Elements:	Regulator Improvements – Fixed Orifices	Throttling Facilities	In-Line Storage	Regulator Improvements – Automation
Location:	72 regulator sites in Manhattan and Brooklyn	North River WPCP, Manhattan Pumping Station, Newtown Creek WPCP	Upstream of regulators B-6 and R-20 in Brooklyn	Regulator sites in Manhattan and Brooklyn
Actions:	Conversion to fixed orifices	Installation of sluice gates and actuator in interceptor sewer	Installation of two inflatable dams in the combined sewer systems	Conversion to automated regulators
Construction Cost:	\$9,500,000	\$10,000,000	\$3,000,000	TBD
Status:	Construction 99% Complete	WWOP for NR Submitted to DEC Construction contract at NC underway Construction contract at MPS underway	Final Design – Not Initiated	Final Design – 15% Complete
Other Issues:	-	-	Submitted determination letter and technical analyses to DEC recommending the implementation of this phase of work.	-

### **3.4. Paerdegat Basin CSO**

The Paerdegat Basin CSO Retention Facility is located in southeastern Brooklyn, at the intersection of Flatlands and Ralph Avenues. The facility will receive combined sewer overflows from outfalls CI-004, CI-005, and CI-006, a drainage area of approximately 6,000 acres in the Coney Island WPCP service area. Once constructed, the facility will consist of a four (4) bay underground storage tank and operations buildings. The stored CSO will be pumped back to the Coney Island WPCP for treatment after each rain event. This section reports on the progress of Phase IA – Influent Channels, Phase II – Foundations and Substructures, and Phase III – Structures and Equipment.

Phase IA includes construction of a major portion of the influent channels and the relief weir. Phase II entails construction of the CSO tank and dredging of the basin. Phase III includes construction of the aboveground buildings, completion of the remaining influent channels and installation of the CSO tank equipment and start-up of the CSO facility.

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

##### *Design*

- ◆ DEP received bids on April 7<sup>th</sup> for Phase III Structures and Equipment, contracts CSO-5G, H, P and E. Contract CSO-5G was awarded to the low bidder on June 15<sup>th</sup>.
- ◆ The DEC approved the Paerdegat Basin plans and specification for Phase III – Structures and Equipment. Based upon the approval, DEP has complied with Appendix A, IV.E.2. of the Order.

##### *Construction*

- ◆ Work has continued on the construction of Phase II - Foundations and Substructures and is approximately 91% complete.

#### **Missed Milestones**

- ◆ There are no missed milestones.

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

##### *Design*

- ◆ Anticipate meeting the milestone date for Notice to Proceed to Construction by September 2005 for Phase III, Structures and Equipment.

##### *Construction*

- ◆ Work will continue on the construction of Phase II, Foundations and Substructures in order to meet the milestone date for Construction Completion by December 2006.

**Table 8 – Paerdegat Basin CSO Project**

	<i>Phase IA</i>	<i>Phase II</i>	<i>Phase III</i>
Construction Phase:	Influent Channels	Foundations and Substructures	Structures and Equipment
Location:	Flatlands and Ralph Avenues, Brooklyn, NY	West Shore of Paerdegat Basin	West Shore of Paerdegat Basin
Actions:	Construction of the influent channels to the CSO facility	Underground structural elements	Aboveground buildings and equipment
Cost:	\$9,000,000	\$119,101,386	\$173,548,189
Status:	Construction completed.	NTP issued on 6/24/02. Construction 91% complete.	Bids received on 4/7/05. Awarded G contract. NPT scheduled to be issued by September 2005
Other Issues:	-	Dredging of the mouth of the Basin postponed indefinitely due to Belt Pkwy Bridge damage.	-

### **3.5. Flushing Bay CSO**

The Flushing Bay CSO Retention Facility is an underground storage tank, which will have a storage capacity of 43 million gallons, 28 MG in the tank and 15 MG in the upstream sewers. The project is being constructed in phases to provide abatement in the Tallman Island WPCP drainage area at CSO Outfall TI-010 which discharges to the head of Flushing Creek. The elements of the facility include:

- ◆ Relocation of ball fields in Kissena Corridor
- ◆ Rerouting of Park Drive East CSO line inside the construction site and construction of the effluent channel
- ◆ Phase 1 construction of the underground structural elements of the tank
- ◆ Phase 2 construction of the mechanical and above-ground portion of the facility
- ◆ Construction of tide gates on the tank outfall sewer and construction of two (2) soccer fields

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

##### *Construction*

- ◆ The milestone for the construction completion of CD-8 – Manual Sluice Gates was met in May 2005. DEP certified completion of this milestone in a letter to DEC dated May 19, 2005.
- ◆ Continued working on comfort stations.
- ◆ Continued masonry and roofing work for above ground buildings.
- ◆ Continued installing belt conveyor system, bar screens and sluice gates.
- ◆ Complete sanitary line connection from building to Fowler Avenue sanitary line.

##### **Missed Milestones**

- ◆ A written notice of a “force majeure” event was submitted to DEC on September 24, 2004. This event has effected compliance with the Construction Completion milestone date of December 2004 for the Flushing Bay CS4-4 (Mechanical Structures) in the Order.
- ◆ On September 8, 2004, rainfall at LaGuardia Airport was recorded by the National Weather Service at three inches in a three hour time period. This torrential rain event caused flooding in the basement of the Flushing Bay facility due to a breach in a temporary construction bulkhead in the influent sewer line to the facility. This breach occurred due to the enormous and unprecedented pressure against the bulkhead. This rain event caused widespread disruptions within the City including severe street and highway flooding and disruption of subway service due to flooding of stations and tunnels. Water levels reached seven to eight feet above the basement floor at the CSO facility which caused damage to various mechanical, HVAC and electrical equipment.

- ◆ DEC requested that DEP provide additional information in a formal report concerning the force majeure event and resultant impact upon the facility and construction status. DEP submitted such report on April 1, 2005.

**Anticipated Activities for Next Quarter**

- ◆ Continue working on comfort stations and interior of above ground buildings
- ◆ Continue to demolish and remove damaged equipment from the flooding event
- ◆ Continue to work on the belt conveyors, bar screens and sluice gates
- ◆ Continue to install chemical pump lines, primary pump lines and sump pump lines

**Table 9 – Flushing Bay CSO Project**

Plan Elements:	Flushing Bay CSO Retention Facility
Location:	Intersection of College Point Boulevard and Avery Avenue, Queens
Actions:	Design and construction of a 43 MG storage facility, which includes a 28 MG, underground storage tank and 15 MG in-line storage in upstream sewers. The facility collects flow from the system tributary to the TI-010 outfall.
Cost:	\$291,000,000
Status:	Phase 2 construction started March 2002 and is on-going.
Other Issues:	Damage to mechanical, HVAC and electrical equipment due to a major storm on September 8, 2004 which caused flooding in the facility and delays to construction.  Contract change orders for additional work are in progress.

### **3.6. Jamaica Tributaries CSO**

The Jamaica Tributaries project area includes the Jamaica WPCP sewershed area and the tributaries, which receive the wet weather discharges from the drainage area. These tributaries include Bergen, Thurston, Shellbank, and Hawtree Basin, which are located in the northeast portion of Jamaica Bay. There are several recommendations that are being advanced in this facility plan which include:

- ◆ Meadowmere & Warnerville DWO Abatement – Construction of a new pumping station, force main, and sanitary sewer collection system in southeast Queens, NY, to convey flows from the communities of Meadowmere and Warnerville into the Jamaica drainage area collection system, for treatment at the Jamaica WPCP. This project will eliminate the dry weather discharge that is currently occurring in these two communities which are not connected to NYC’s collection system.
- ◆ Expansion of Wet Weather Capacity of Jamaica WPCP – An additional 50 mgd of wet weather flow will be treated at the Jamaica WPCP to reduce the CSO discharges to Bergen Basin.
- ◆ Destratification Facility – Installation of a permanent diffused-air bubble mixing system at Shellbank Basin. The system is targeted to eliminate temperature stratification during the summer season, which leads to poor water quality conditions in the basin, odors and marine life kills. This element currently has an operating pilot facility, which has produced positive water and air quality results for the past 6 summer seasons.
- ◆ Laurelton and Springfield Blvd. Drainage Plan – A drainage plan for 7,000 acres in southeast Queens is being developed to address flooding and to construct high-level storm sewers in a 1,450 acre CSO drainage area tributary to Thurston Basin. The drainage plan identifies the necessary capital sewer projects to alleviate flooding and convert the aforementioned CSO area to a high-level storm sewer system.
- ◆ Regulator Automation – Automation of key regulators was recommended in response to the 1988 State Pollution Discharge Elimination System (SPDES) permit requirements that called for telemetry in the regulators to detect dry weather overflows. It was recommended at those regulators contributing the largest flows to the treatment plants, specifically Regulators 2, 3, and 14 in the Jamaica WPCP drainage area. The Citywide Collection Facilities Supervisory Control and Data Acquisition (SCADA) System Project will automate key regulators in the City by installing electro-hydraulic actuators capable of controlling flows to the sewer interceptor.

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

##### *Planning-*

- ◆ At a technical meeting held with DEC in Albany on June 29<sup>th</sup>, DEP presented an overview of the Bergen Basin waterbody and watershed, and the projected DO water quality improvement due to the proposed 50 mgd expansion at the Jamaica WPCP. The presentation showed that CSO is not the dominant load to Bergen Basin and the current plan to expand the plant would be ineffective in improving water quality. It was

recommended that alternative cost effective actions be developed under the waterbody/watershed plan activities.

- ◆ NYC Department of City Planning (DCP) approved the ULURP application for the siting and property acquisition for the Warnerville Pumping Station.
- ◆ Continued the preparation and design of a drainage plan for southeast Queens.
- ◆ Developing required agreements for the construction of the Meadowmere and Warnerville DWO Abatement. An agreement with DCAS is required for use of temporary contractor's staging/laydown areas. Also, a draft permit letter with DPR is pending for the wetland mitigation area, temporary road bypass, and temporary road access and work area.

#### *Design*

- ◆ Continued to work on the draft US Army Corps of Engineers Joint Permit Application for Tidal Wetlands. Response to comments on the draft US Army Corps of Engineers Joint Permit Application for Tidal Wetlands was forwarded to the OEPA on June 29.
- ◆ The milestone for Final Design Completion including CPM analysis for Meadowmere/Warnerville DWO Abatement was met in May 2005. DEP certified completion of this milestone in a letter to DEC dated May 24, 2005. Plans and specifications were transmitted to both DEC and EFC.
- ◆ Prepared draft DOB submittal package in June for Warnerville Pumping Station.
- ◆ Prepared DEP site connection proposal for Warnerville Pumping Station.
- ◆ Final design of Regulator Automation continued, as required by the Order under the BWT's Citywide SCADA Contract.

#### *Construction*

- ◆ Construction has not yet initiated for this project.

#### **Missed Milestones**

- ◆ There are no missed milestones.

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

##### *Planning*

- ◆ Certification of Shellbank Basin Destratification Facility ULURP application by DCP.

##### *Design*

- ◆ There are no design activities scheduled in the next quarter.

**Table 10 – Jamaica Tributaries CSO Project**

Plan Elements:	Meadowmere & Warnerville DWO Abatement	Expansion of Wet Weather Capacity of Jamaica WPCP	Destratification	Laurelton and Springfield Blvd. Drainage Plan	Regulator Automation
Location:	Meadowmere and Warnerville – Queens, New York	Bergen Basin	Shellbank Basin	Jamaica WPCP Drainage Area	Regulators 2,3 and 14
Actions:	Construction of a Pumping Station, Sewer Collection System, and Dual Force Main	Provide an additional 50 mgd of wet weather capacity at the Jamaica WPCP.	Conduct Demonstration of New Technologies / Construct Permanent Facility	Develop drainage plan for storm sewer buildout	Provide automated regulators
Construction Cost:	\$27.6 million	\$120 million	\$500,000	To be determined	To be determined
Status:	- Final Design 100% Complete  - ULURP Application Approved.	Recent analyses indicate that this element has limited water quality benefit. Alternative actions will be analyzed in waterbody/ watershed plan.	- Preliminary Design Complete.  - ULURP Application awaiting certification.	Drainage planning underway	Final Design initiated.

### **3.7. Coney Island Creek CSO**

The recommended plan for the Coney Island Creek CSO Facility Planning Project is to increase the wet weather pumping capacity of the Avenue V Pumping Station. The Avenue V Pumping Station tributary area encompasses 2,900 acres, of which 2,056 acres are separately sewered and 844 acres have combined sewers. The Avenue V Pumping Station capacity will be increased to capture 85 percent, by volume, of the current CSO discharge from outfall OH-021 to Coney Island Creek. The capacity of the pumping station will be increased from approximately 30 mgd to 80 mgd in two construction contracts, a pumping station upgrade phase and a force main construction phase.

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

##### *Design*

- ◆ For the Avenue V Pumping Station upgrade, bids were received on June 16<sup>th</sup> for the G, H, P, and E contracts associated with the upgrade. The bids received were significantly higher than the engineer's estimate. This situation will cause a delay to the award and registration because DEP does not have sufficient funds in the budget to award the project. A request for additional budget will be made to the NYC Office of Management and Budget (OMB).
- ◆ DEP is currently preparing a Memorandum of Understanding with New York City Parks Department to install the force mains adjacent to the Belt Parkway. The final design for the force main work is approximately 70% complete.
- ◆ DEP is currently preparing a Memorandum of Understanding with US Army Corps of Engineers, Fort Hamilton to install the force mains adjacent to the Belt Parkway across US Army property.

#### **Missed Milestones**

- ◆ There are no missed milestones.

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

- ◆ Continue work for the finalization of the plans and specifications for the force main.
- ◆ Work with NYCOMB to secure additional construction funds to award the pumping station upgrade work to the apparent low bidders.

**Table 11 – Coney Island Creek CSO Project**

	<i>Contracts PS-79G, H, P, E</i>	<i>Contract PS-79F</i>
Plan Elements:	Upgrade Avenue V Pumping Station	New Force Mains
Location:	Avenue V PS (Avenue V and West 11th Street)	42-inch to SE-133 (Shore Pkwy. Vic. Verrazano Bridge); 48-inch to vic. Reg. 9A
Actions:	Comprehensive upgrade to automate and increase station capacity to 80 mgd; Lower Wet Well operating level to reduce sewer surcharges; Network Protector Structure to reliably transform utility power; Generator system to improve station reliability; Architectural restoration of Main Building to 1915 appearance	New force mains to convey DWF and WWF
Cost:	\$38,244,000	\$67,700,000
Status:	Bids Received	Final Design – 70% Complete
Other Issues:	Bids were higher than engineer’s estimate. Cannot award construction contracts until project budget is modified by NYC Office of Management and Budget. This request for additional funds will delay award of project.	Routing of force main along parkland; Routing of force main in vicinity of Fort Hamilton; Selective replacement of water and sewer utilities along route; possible seawall/ promenade improvements

### 3.8. Newtown Creek CSO

The Newtown Creek CSO Facility Planning area consists of the areas in Brooklyn and Queens from which wet weather runoff drains to the Newtown Creek waterbody and its branches: English Kills, Dutch Kills, Whale Creek, Maspeth Creek and the East Branch. **For this CSO planning area, the Waterbody/Watershed Facility Plan currently under development will analyze cost effective CSO control measures for this waterbody and potentially propose modifications to the scope of the existing CSO facilities plan, as permitted in the Order in Section III, Paragraph A, section 3.**

This section reports on the progress of facility planning and design of the existing CSO plan, subject to modifications by the Waterbody/Watershed Facility Plan, and includes 1) maximizing flow through the Morgan Avenue Interceptor, 2) the construction of instream aeration facilities (Zone I & II) and 3) the construction of an off-line storage tank.

Maximizing flow through the Morgan Avenue Interceptor will include raising the overflow weir in Regulator B1; increasing the sluice gate openings to the interceptor; providing a relief sewer from the St. Nicholas weir to Regulator B1; and providing a throttling gate on the Kent Avenue Interceptor. The Aeration Facilities (Zone I) includes construction of a landside compressor station and installation of an air header in the creek bottom of the Upper English Kills to raise DO concentrations to a minimum of 1.0 mg/l. Based upon the performance evaluation of the Zone I aeration testing, Zone II aeration may be implemented to expand instream aeration to include the Lower English Kills, the East Branch and Dutch Kills. The off-line storage facility will control CSO discharge to the English Kills and will include a 9 million gallon tank, a pumping station, and a new gravity drain to drain the tank for treatment at the Newtown Creek WPCP.

#### Work Performed During This Quarter

##### *Facility Planning*

- ◆ The Phase II Environmental Site Assessment Report was submitted to the DEP and is under review. This work was incorporated into a revised EAS and is also under review by the DEP.

##### *Design*

- ◆ The Zone I Aeration Facility construction contract was bid. A bid evaluation was performed and it was recommended that the low bidders for Contracts G and E be awarded. The low bidder for the H Contract withdrew their bid. The H Contract is being rebid.

#### Missed Milestones

- ◆ There are no missed milestones.

#### Anticipated Activities for Next Quarter

- ◆ Award contracts for Contracts G and E for Zone I English Kills Aeration.
- ◆ Receive and review bids for Contract H for the Zone I Aeration Facility.

**Table 12 – Newtown Creek CSO Project**

Plan Elements:	Maximize flow through Morgan Ave. Interceptor	Phase I Aeration Facilities	Off-line Storage Tank
Location:	Regulator B1 and WPCP throttling chamber	Head end of English Kills, south of Grand Street	Sewers tributary to CSO outfall discharging to English Kills
Actions:	Raise overflow weir in Regulator B1; increase sluice gate openings to interceptor; provide relief sewer from St. Nicholas weir to Regulator B1; provide throttling gate on Kent Avenue Interceptor.	Provide aeration of English Kills to raise DO concentrations to a minimum of 1.0 mg/l. The facility includes a landside compressor station and an air header and diffuser assembly on the Creek bottom.	Design of an off-line storage facility to control CSO discharge into English Kills. The facility would include the tank, a pumping station, and a new gravity drain to drain the tank for treatment at the Newtown Creek WPCP.
Cost:	Under revision	\$16,000,000	Under revision
Status:	Facility plan elements for modifications to regulator and routing of the relief sewer have been completed and included in an Updated Facility Plan Draft Report. Modeling of the interceptors was performed to determine the size and operation of the throttling gate. Coordination with the WPCP design team is continuing.	Final design is complete. The G and E contracts were bid and are in the process of being awarded. The H Contract is being rebid.	Siting within English Kills was rejected by DEC. Identified preferred site at intersection of Johnson and Morgan Avenues after re-evaluation of siting alternatives. Draft ULURP application submitted to DEP. Additional DEP comments to the EAS have been received and are being incorporated. Phase I Environmental Site Assessment and Phase II Scope of Work and HASP have been approved by DEP. Drilling and Laboratory contracts were awarded and environmental borings and groundwater sampling completed. Preliminary plan and profile drawings and preliminary equipment sizing prepared for construction of tank at preferred location. Final Facility Plan Draft Report Submitted to DEP and forwarded to the DEC.
Other Issues:	Requires coordination with WPCP planning and design requirements	Zone II for the lower English Kills, the East Branch and Dutch Kills will follow.	Site approval (ULURP) and acquisition of property required. <b>As allowed by the Order, the current plan is subject to modifications by the Waterbody/Watershed Facility Plan.</b>

### 3.9. Westchester Creek CSO

The Westchester Creek CSO Facilities Planning area consists of the drainage area of CSO Outfall HP-014, which discharges at the head end of the Creek. Westchester Creek receives discharges from five CSO outfalls; however, discharges from CSO Outfall HP-014 were determined to be the primary cause of water quality degradation in the Creek. CSO Outfall HP-014 serves a drainage area of approximately 2,321 acres within the Hunts Point WPCP service area in the Borough of the Bronx. **For this CSO planning area, the Waterbody/Watershed Facility Plan currently under development will analyze cost effective CSO control measures for this waterbody and potentially propose modifications to the scope of the existing CSO facilities plan, as permitted in the Order in Section III, Paragraph A, section 3.**

The current Westchester Creek CSO Abatement Facilities Plan, subject to modifications by the Waterbody/Watershed Facility Plan recommendations, will be constructed in two phases with Phase I consisting of the facilities to divert the combined sewage to the CSO storage tank, as well as rehabilitation of an existing tide gate chamber, and Phase II consisting of the CSO storage tank. In addition to the facilities required for abatement at CSO Outfall HP-014, the DEP has agreed to provide, as part of the project, amenities for use by the Bronxchester and Van Nest Little Leagues that utilize the baseball fields adjacent to the site of the proposed CSO storage tank on the Bronx Psychiatric Center (BPC) Campus. These amenities consist of restroom facilities, a clubhouse facility, a parking lot and playground to be located on top of the CSO storage tank, and fencing to separate the Little League facilities from the BPC Campus facilities and the DEP facilities. This section reports on the progress of the Little League restroom facilities, and Phases I and II of the Westchester Creek CSO Abatement Facilities Plan.

The Little League restroom facilities will be constructed under a separate contract referred to as the Site Preparation Contract in advance of the Phase I contract. Phase I includes construction of the diversion chamber in Eastchester Road, construction of the 2 MG CSO supply/storage conduit along Waters Place between the diversion chamber and the 10 MG CSO storage tank, and rehabilitation of the existing tide gate chamber located at CSO Outfall HP-014. Phase II includes construction of the 10 MG CSO storage tank in the southwest section of the BPC Campus, including an operations building to house operational units, construction of the Little League clubhouse facility, parking lot and playground, and installation of the required fencing at the site.

#### Work Performed During This Quarter

##### *Planning*

- ◆ Negotiations continued between New York City Department of City-Wide Administrative Services (DCAS) and the Dormitory Authority of the State of New York (DASNY) regarding acquisition of the site at the BPC Campus by the DEP for the CSO storage tank.
- ◆ In order to finalize the acquisition of the site at the BPC Campus, DECAS requires a Damage and Acquisition Map of the site. In July 2005, Hirani Engineering and Land

Surveying as a subcontractor to URS will prepare topographical and property line surveys of the site, including preparation of a Damage and Acquisition Map.

*Design*

- ◆ Work to prepare the Site Preparation Contract for re-bidding remained on hold until the site at the BPC Campus is acquired by the DEP.
- ◆ Design of Phases I and II continued.

*Construction*

- ◆ Construction has not yet been initiated.

**Missed Milestones**

- ◆ There are no missed milestones.

**Anticipated Activities for Next Quarter**

- ◆ Site acquisition negotiations between DCAS and DASNY will continue.
- ◆ Hirani will complete the topographical and property line surveys of the site, including the Damage and Acquisition Map.
- ◆ Design of Phases I and II will continue.

**Table 13 – Westchester Creek CSO Project**

Plan Elements:	Westchester Creek CSO Supply/Storage Conduit, CSO Storage Tank and Little League Amenities
Location:	Bronx Psychiatric Center Campus, and along Eastchester Road and Waters Place in the Bronx
Actions:	Design and construction of an underground CSO storage tank with a capacity of 12 MG (including the storage capacity within the supply/storage conduit) to provide abatement at CSO Outfall HP-014 on Westchester Creek; design and construction of an operations building; design and construction of amenities for the Bronxchester and Van Nest Little Leagues
Cost:	Under Revision
Status:	Negative Declaration issued for project; ULURP Application approved; design underway for CSO supply/storage conduit, CSO storage tank and clubhouse facility for Little Leagues; design complete for restroom facilities for Little Leagues
Other Issues:	Site needs to be acquired by DEP from the State of New York; licensing agreement between DEP and the Little Leagues needs to be finalized; NYC Building Permit Application, as well as other permit applications, need to be processed for restroom facilities for Little Leagues. <b>As allowed by the Order, the current plan is subject to modifications by the Waterbody/Watershed Facility Plan</b>

### **3.10. Bronx River CSO**

The modified CSO facilities plan for the Bronx River recommends that floatables control facilities be provided at CSO Outfalls HP-004, HP-007 and HP-009, within the Hunts Point WPCP drainage area, to minimize the discharge of unsightly floatable material. This modified plan eliminated the previously proposed 4 MG CSO storage facility due to limited benefits in the improvement of water quality in the Bronx River.

For CSO Outfall HP-004, which is located on the west bank of the Bronx River just north of the Cross Bronx Expressway and serves a drainage area of approximately 582 acres, the recommended floatables control facility consists of providing in-line netting within a new conduit located upstream of the outfall along West Farms Road. For CSO Outfall HP-007, which is located on the east bank of the Bronx River just north of the Sheraton Expressway and serves a drainage area of approximately 2,661 acres, the recommended floatables control facility consists of providing "COPA" screens within Regulators 27 and 27A located upstream of the outfall. For CSO Outfall HP-009, which is located on the east bank of the Bronx River near the confluence with the East River and serves a drainage area of approximately 436 acres, the recommended floatables control facility consists of providing in-line netting within Regulator 13, located within Soundview Park upstream of the outfall.

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

##### *Planning*

- ◆ The milestone for initiation of final design for Floatables Control was met in April 2005. DEP certified completion of this milestone in a letter to DEC dated April 20, 2005.
- ◆ In early April 2005, a draft revised EAS with all references to the NYSDOT Bronx River Greenway Project deleted was submitted to the DEP for review. This EAS is required in order to finalize the land swaps between the DEP, NYCDPR, NYSDOT, NYCDOT and NYCT-MTA.
- ◆ A revised ULURP Application required to finalize the land swaps is approximately 70 percent complete. This revised ULURP Application cannot be completed until revised metes and bounds descriptions of Parcels A, B, C1, C2 and D, based on as-built conditions resulting from construction activity by NYCT-MTA, are provided by the NYSDOT.
- ◆ HydroQual, Inc. initiated preparation of the EAS for the floatables control facilities for CSO Outfalls HP-004, HP-007 and HP-009.

##### *Design*

- ◆ Design of the floatables control facilities for CSO Outfalls HP-004, HP-007 and HP-009 was initiated. The 35% design submittal is scheduled to be submitted to the DEP in November 2005 for review.
- ◆ Work was initiated to secure a drilling firm to drill geotechnical borings and install groundwater monitoring wells at the sites of the floatables control facilities.

*Construction*

- ◆ Construction has not yet been initiated.

**Missed Milestones**

- ◆ There are no missed milestones.

**Anticipated Activities for Next Quarter**

- ◆ Preparation of the EAS for the floatables control facilities for CSO Outfalls HP-004, HP-007 and HP-009 will continue
- ◆ Preparation of the ULURP Application for the floatables control facilities for CSO Outfalls HP-004, HP-007 and HP-009 will be initiated.
- ◆ The revised EAS required for the land swaps will continue to be reviewed by the DEP.
- ◆ The revised ULURP Application required for the land swaps will be completed and submitted to the DEP.
- ◆ Design of the floatables control facilities for CSO Outfalls HP-004, HP-007 and HP-009 will continue.
- ◆ Geotechnical borings will be drilled and groundwater monitoring wells will be installed at the sites of the floatables control facilities.

**Table 14 – Bronx River CSO Project**

Plan Elements:	Floatables Control Facilities at CSO Outfalls HP-004, HP-007 and HP-009
Location:	New conduit (West Farms Road) upstream of CSO Outfall HP-004, Regulator 27 (Bronx Park Avenue) and Regulator 27A (Bronx Zoo) upstream of CSO Outfall HP-007, and Regulator 13 (Soundview Park) upstream of CSO Outfall HP-009
Actions:	Design and construction of floatables control facilities for CSO Outfalls HP-004, HP-007 and HP-009
Cost:	\$12,330,000
Status:	Preparation of EAS for floatables control facilities for CSO Outfalls HP-004, HP-007 and HP-009 underway; revised EAS required for land swaps under review; preparation of revised ULURP Application required for land swaps underway; and final design of floatables control facilities underway
Other Issues:	EAS for floatables control facilities for CSO Outfalls HP-004, HP-007 and HP-009 needs to be prepared, approved and Negative Declaration issued; ULURP Application for floatables control facilities needs to be prepared, certified and approved; revised EAS required for land swaps needs to be finalized, approved and Negative Declaration issued; revised ULURP Application required for land swaps needs to be finalized, certified and approved; and final design initiated. <b>As allowed by the Order, the current plan is subject to modifications by the Waterbody/Watershed Facility Plan</b>

### 3.11. Hutchinson River CSO

The Hutchinson River CSO Facilities Planning area consists of the drainage areas of CSO Outfalls HP-023 and HP-024 in the Hunts Point WPCP drainage area. The Hutchinson River receives discharges from five CSO outfalls; however, discharges from CSO Outfalls HP-023 and HP-024 were determined to be the primary cause of water quality degradation in the River. CSO Outfall HP-023, which is located on the west bank of the Hutchinson River near the southern end of Conner Street, serves a drainage area of approximately 300 acres. CSO Outfall HP-024, which is located on the west bank of the Hutchinson River near the intersection of Boston Road and 233<sup>rd</sup> Street, serves a drainage area of approximately 1,100 acres. **For this CSO planning area, the Waterbody/Watershed Facility Plan currently under development will analyze cost effective CSO control measures for this waterbody and potentially propose modifications to the scope of the existing CSO facilities plan, as permitted in the Order in Section III, Paragraph A, section 3.**

The current Hutchinson River CSO Abatement Facilities Plan, subject to modifications by the Waterbody/Watershed Facility Plan, will be constructed in two phases with Phase I consisting of a 4 MG CSO storage tank to provide abatement at CSO Outfall HP-023 and Phase II a 3 MG CSO storage tank to provide abatement at CSO Outfall HP-024. This section reports on the progress of Phases I and II of the Hutchinson River CSO Abatement Facilities Plan.

Phase I includes construction of a southern 4 MG CSO storage tank to be located adjacent to the Hutchinson River wholly within the boundary limits of Public Place Site, which is land near the southern end of Conner Street currently controlled by the NYCDPR. Phase II includes construction of a northern 3 MG CSO storage tank to be located adjacent to the Hutchinson River along Hutchinson Avenue on land currently owned by Pascap Export, Inc.

#### Work Performed During This Quarter

##### *Planning*

- ◆ The milestone for initiation of final design for Phase I of the Storage Facility was met in April 2005. DEP certified completion of this milestone in a letter to DEC dated April 20, 2005.

##### *Design*

- ◆ Preliminary design of Phases I and II continued.
- ◆ In late April 2005, Massand Engineering submitted the finalized survey drawing, showing the topography and property lines, for the northern 3 MG storage tank site along Hutchinson Avenue.

##### *Construction*

- ◆ Construction has not yet been initiated.

#### Missed Milestones

- ◆ There are no missed milestones.

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

- ◆ Design of Phases I and II will continue.
- ◆ Wetland delineations will be finalized and flags showing the limits of the wetlands will be surveyed for the two storage tank sites. This information will be included on the survey maps of the sites.
- ◆ Jersey Boring and Drilling Co. as a subcontractor to URS will drill the geotechnical borings and install groundwater monitoring wells at the two storage tank sites.
- ◆ Jersey Boring and Drilling Co. as a subcontractor to URS will drill the environmental borings at the two storage tank sites, and Enviro-Probe as a subcontractor to URS will analyze soil and groundwater samples collected from the borings.
- ◆ LMS as a subcontractor to URS will install sampling points in the field for soil vapor monitoring at the two storage tank sites, and Enviro-Probe as a subcontractor to URS will analyze the vapor samples collected for VOCs including methane.

**Table 15 – Hutchinson River CSO Project**

Plan Elements:	Hutchinson River CSO Storage Facilities
Location:	City-owned property at southern end of Conner Street adjacent to Hutchinson River; privately-owned property along Hutchinson Avenue adjacent to Hutchinson River
Actions:	Design and construction of a 4 MG CSO storage tank and a 3 MG CSO storage tank to provide abatement at CSO Outfalls HP-023 and HP-024, respectively; rehabilitation of existing CSO Outfalls HP-023 and HP-024
Cost:	Under Revision
Status:	Preparation of EAS and ULURP Application being coordinated with the CSO Long-Term Control Plan; preliminary design underway
Other Issues:	EAS needs to be prepared, approved and Negative Declaration issued; ULURP Application needs to be prepared, certified and approved; sites for CSO storage facilities need to be acquired. <b>As allowed by the Order, the current plan is subject to modifications by the Waterbody/Watershed Facility Plan</b>

### **3.12. Jamaica Bay CSO**

The Jamaica Bay CSO Abatement Facility Plan addresses CSOs in the 26<sup>th</sup> Ward WPCP drainage area, specifically the CSO discharges to Fresh Creek, Hendrix St. Canal and Spring Creek, as well as other tributary waters with CSO discharges to Jamaica Bay. The 5 Phase plan for the 26th Ward tributaries includes: Phase I includes cleaning of sewers in the 26<sup>th</sup> Ward drainage area and interim dredging of the head-end of Hendrix St Canal, Phase II includes dredging of the CSO sediment mounds in Fresh Creek, Hendrix St. Canal and Spring Creek to remove accumulated sediment, Phase III includes development of waterbody/watershed plans for the 26th Ward tributaries under the Citywide Long Term Control Plan for CSO, Phase IV includes and expansion of the wet weather capacity of the 26<sup>th</sup> Ward WPCP by 50 mgd and Phase V includes implementation, if needed, of structural CSO abatement facilities.

In addition to the facility plan recommendations, the existing Spring Creek Auxiliary WPCP is undergoing an upgrade. The project was developed under another program, but was subsequently listed as a recommended project in the Jamaica Bay CSO Abatement Facility Plan. The key components of the Spring Creek Auxiliary WPCP upgrade include lowering the roof and providing enhanced HVAC and odor control systems, improved disinfection systems and new basin wash down systems.

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

##### *Planning*

- ◆ Preparing a sampling plan to examine the sediment mounds in Fresh Creek, Hendrix St. Canal and Spring Creek.
- ◆ Completed bathymetric survey in support of the dredging effort.

##### *Construction*

- ◆ Construction activities continued at the Spring Creek Auxiliary WPCP upgrade.

#### **Missed Milestones**

- ◆ There are no missed milestones.

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

- ◆ Develop and submit sediment sampling plan and protocol.

**Table 16 – Jamaica Bay CSO Project**

Plan Elements:	Dredging	Cleaning of Certain Combined Sewers	Expansion of 26 <sup>th</sup> Ward WPCP Capacity
Location:	Phase I- Interim dredging of Hendrix Street Canal Phase II- dredging of CSO mounds in Fresh Creek, Hendrix St. Canal and Spring Creek	Phase I-Portions of sewers in Williams, Hegeman and Flatlands Avenues	Phase IV- 26 <sup>th</sup> Ward WPCP, Brooklyn
Actions:	City is local sponsor on the Jamaica Bay Ecosystem Restoration Project	Contract Documents Complete	Increase wet weather capacity by 50 mgd
Project Cost:	Phase I \$3.75 million Phase II-\$19 million (estimate from 2003 Facility Plan)	\$4 Million	TBD
Status:	Discussions with the USACOE regarding dredging of the head ends of the 26 <sup>th</sup> Ward tributaries and the Ecosystem Restoration Program	On Schedule	Final Design yet to be Initiated
Other Issues:	-	-	-

### **3.13. Citywide Comprehensive Floatables Plan**

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

- ◆ The work related to the Comprehensive Citywide Floatables Control Abatement Plan Project is now been shifted to the CSO Long Term Control Plan (LTCP) Project.
- ◆ On March 30, 2004, DEP received comments from Joseph DiMura, DEC, regarding the Modified Facility Planning Report for the Citywide Comprehensive CSO Floatables Project. Per DEC's request, the comments are being addressed and a revised, stamped final version will be submitted for approval.
- ◆ DEP and DEC conducted several conference calls and meetings to discuss the content of the Modified Facility Planning Report for the Citywide Comprehensive CSO Floatables Project. Revisions are underway and the final version will be submitted to DEC by August 1, 2005.

#### **Missed Milestones**

- ◆ There are no missed milestones.

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

- ◆ Address DEC comments on the Modified Facility Planning Report for the Citywide Comprehensive CSO Floatables Project and submit a revised, stamped final version for DEC approval by August 1, 2005.

## 4.0. Compliance Status

### 4.1. Unresolved Delays

### 4.2. Compliance Charts

The following table summarizes the milestone dates developed in the draft Consent Order and updates available through December 2004:

**Table 17 – Consent Order Milestone Dates**

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
<b>I. Alley Creek CSO</b>			
<b>A. Facility Plan Development</b>			
1. Submit Modified Facility Plan Report	-	Completed	100
2. Submit Approvable Additional Modified Facility Plan Report	-	Feb. 2004	100
3. Submit Form 2A SPDES Application	-	June 2003	100
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Alley Creek Waterbody / Watershed Facility Plan Report	July 2004	June 2007	25
2. Submit Approvable East River Waterbody / Watershed Facility Plan Report	-	June 2007	-
<b>C. Outfall and Sewer System Improvements</b>			
1. Initiate Final Design	May 1996	-	100
2. Final Design Completion Including CPM Analysis	-	Mar. 2002	100
3. Notice to Proceed to Construction	Dec. 2002	-	100
4. Construction Completion	-	Dec. 2006	68
<b>D. CSO Retention Facility</b>			
1. Initiate Final Design	May 1996	-	100
2. Final Design Completion Including CPM Analysis	-	Dec. 2005	95
3. Notice to Proceed to Construction	Dec. 2006	-	-
4. Construction Completion	-	Dec. 2009	-
<b>E. Drainage Basin Specific LTCPs</b>			

ITEM DESCRIPTION		START DATE	DUE DATE	% COMPLETE
	1. Submit Approvable Drainage Basin Specific LTCP for Alley Creek	-	6 mos. after approval of I.B.1.	-
	2. Submit Approvable Drainage Basin Specific LTCP for East River	-	6 mos. after approval of I.B.2.	-
<b>II. Outer Harbor CSO</b>				
<b>A. Facility Plan Development</b>				
	1. Submit Modified Facility Plan Report	-	Completed	100
	2. Submit Additional Modified Facility Plan Report	-	Feb. 2004	100
<b>B. Comprehensive Watershed Planning</b>				
	1. Submit Approvable Open Waters Waterbody / Watershed Facility Plan Report	-	June 2007	-
<b>C. Regulator Improvements - Fixed Orifices</b>				
	1. Initiate Final Design	Jan. 2004	-	100
	2. Final Design Completion Including CPM Analysis	-	April 2005	100
	3. Notice to Proceed to Construction	Feb. 2006	-	-
	4. Construction Completion	-	July 2008	-
<b>D. Regulator Improvements – Automation</b>				
	1. Initiate Final Design	Feb. 2005	-	100
	2. Final Design Completion Including CPM Analysis	-	Nov. 2006	5
	3. Notice to Proceed to Construction	Nov. 2007	-	-
	4. Construction Completion	-	June 2010	-
<b>E. Port Richmond Throttling Facility</b>				
	1. Initiate Final Design	June 2004	-	100
	2. Final Design Completion Including CPM Analysis	-	Aug. 2005	95
	3. Notice to Proceed to Construction	June 2006	-	-
	4. Construction Completion	-	Dec. 2008	-
<b>F. In-Line Storage</b>				
	1. Initiate Final Design	July 2005	-	N/A
	2. Final Design Completion Including CPM Analysis	-	Nov. 2006	N/A
	3. Notice to Proceed to Construction	Aug. 2007	-	N/A

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
4. Construction Completion	-	Aug. 2010	N/A
G. Submit Approvable Drainage Basin Specific LTCP for Open Waters	-	Jan. 2008	-
<b>III. Inner Harbor CSO</b>			
<b>A. Facility Plan Development</b>			
1. Submit Modified Facility Plan Report	-	Completed	100
2. Submit Additional Modified Facility Plan Report	-	Feb. 2004	100
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Gowanus Canal Waterbody / Watershed Facility Plan Report	-	June 2007	90
<b>C. Regulator Improvements - Fixed Orifices</b>			
1. Initiate Final Design	Mar. 2000	-	100
2. Final Design Completion Including CPM Analysis	-	Sept. 2002	100
3. Notice to Proceed to Construction	Feb. 2003	-	100
4. Construction Completion	-	Apr. 2006	99
<b>D. Regulator Improvements – Automation</b>			
1. Initiate Final Design	Feb. 2005	-	100
2. Final Design Completion Including CPM Analysis	-	Nov. 2006	15
3. Notice to Proceed to Construction	Nov. 2007	-	-
4. Construction Completion	-	June 2010	-
<b>E. In-Line Storage</b>			
1. Initiate Final Design	July 2005	-	-
2. Final Design Completion Including CPM Analysis	-	Nov. 2006	-
3. Notice to Proceed to Construction	Aug. 2007	-	-
4. Construction Completion	-	Aug. 2010	-
F. Submit Approvable Drainage Basin Specific LTCP for Gowanus Canal	-	Jan. 2008	-
<b>IV. Paerdegat Basin CSO</b>			
<b>A. Facility Plan Development</b>			
1. Submit Modified Facility Plan Report	-	Completed	100
2. Submit Additional Modified Facility Plan Report	Feb. 2004	-	100

<b>ITEM DESCRIPTION</b>	<b>START DATE</b>	<b>DUE DATE</b>	<b>% COMPLETE</b>
3. Submit Form 2A SPDES Application	-	July 2002	100
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Paerdegat Basin Waterbody / Watershed Facility Plan Report	-	Mar. 2003	100
<b>C. Influent Channel</b>			
1. Initiate Final Design	Oct. 1994	-	100
2. Final Design Completion Including CPM Analysis	-	Mar. 1997	100
3. Notice to Proceed to Construction	Feb. 1999	-	100
4. Construction Completion	-	Feb. 2002	100
<b>D. Foundations and Substructures</b>			
1. Initiate Final Design	Oct. 1994	-	100
2. Final Design Completion Including CPM Analysis	-	Aug. 2001	100
3. Notice to Proceed to Construction	June 2002	-	100
4. Construction Completion	-	Dec. 2006	91
<b>E. Structures and Equipment</b>			
1. Initiate Final Design	Oct. 1994	-	100
2. Final Design Completion Including CPM Analysis	-	Nov. 2004	100
3. Notice to Proceed to Construction	Sept. 2005	-	-
4. Construction Completion	-	Aug. 2011	-
F. Submit Approvable Drainage Basin Specific LTCP for Paerdegat Basin	-	Nov. 2005	70
<b>V. Flushing Bay CSO</b>			
<b>A. Facility Plan Development</b>			
1. Submit Modified Facility Plan Report	-	Completed	100
2. Submit Additional Modified Facility Plan Report	-	Feb. 2004	100
3. Submit Form 2A SPDES Application	-	June 2003	100
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Flushing Bay Waterbody / Watershed Facility Plan Report	July 2004	June 2007	30
2. Submit Approvable Flushing Creek Waterbody / Watershed Facility Plan Report	July 2004	June 2007	30

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
<b>C. CS4-1 Reroute and Construct Effluent Channel</b>			
1. Initiate Final Design	Oct. 1992	-	100
2. Final Design Completion Including CPM Analysis	-	Sept. 1994	100
3. Notice to Proceed to Construction	June 1995	-	100
4. Construction Completion	-	June 1996	100
<b>D. CS4-2 Relocate Ballfields</b>			
1. Initiate Final Design	Oct. 1992	-	100
2. Final Design Completion Including CPM Analysis	-	Sept. 1994	100
3. Notice to Proceed to Construction	Apr. 1995	-	100
4. Construction Completion	-	Aug. 1995	100
<b>E. CS4-3 Storage Tank</b>			
1. Initiate Final Design	Dec. 1993	-	100
2. Final Design Completion Including CPM Analysis	-	Sept. 1996	100
3. Notice to Proceed to Construction	July 1997	-	100
4. Construction Completion	-	Aug. 2001	100
<b>F. CS4-4 Mechanical Structures - Initiate Final Design</b>			
1. Initiate Final Design	Dec. 1993	-	100
2. Final Design Completion Including CPM Analysis	-	Feb. 2000	100
3. Notice to Proceed to Construction	Mar. 2002	-	100
4. Construction Completion	-	Dec. 2004	90
<b>G. CS4-5 Tide Gates</b>			
1. Initiate Final Design	Aug. 1998	-	100
2. Final Design Completion Including CPM Analysis	-	Nov. 1999	100
3. Notice to Proceed to Construction	Dec. 2000	-	100
4. Construction Completion	-	Apr. 2002	100
<b>H. CD-8 Manual Sluice Gates</b>			
1. Final Design Completion Including CPM Analysis	-	May 2003	100
2. Notice to Proceed to Construction	Feb. 2004	-	100
3. Construction Completion	-	June 2005	100
<b>I. Drainage Basin Specific LTCPs</b>			

ITEM DESCRIPTION		START DATE	DUE DATE	% COMPLETE
	1. Submit Approvable Drainage Basin Specific LTCP for Flushing Bay	-	6 mos. after apprvl. of V.B.1.	-
	2. Submit Approvable Drainage Basin Specific LTCP for Flushing Creek	-	6 mos. after apprvl. of V.B.2.	-
<b>VI. Jamaica Tributaries CSO</b>				
<b>A. Facility Plan Development</b>				
	1. Submit Modified Facility Plan Report	-	April 2003	100
	2. Submit Additional Modified Facility Plan Report	-	Feb. 2004	100
<b>B. Comprehensive Watershed Planning</b>				
	1. Submit Approvable Bergen Basin Waterbody / Watershed Facility Plan Report	-	June 2007	-
	2. Submit Approvable Thurston Basin Waterbody / Watershed Facility Plan Report	-	June 2007	-
<b>C. Meadowmere &amp; Warnerville DWO Abatement</b>				
	1. Initiate Final Design	Jan. 2004	-	100
	2. Final Design Completion Including CPM Analysis	-	May 2005	100
	3. Notice to Proceed to Construction	Mar. 2006	-	-
	4. Construction Completion	-	Mar. 2009	-
<b>D. Expansion of Wet Weather Capacity of Jamaica WPCP</b>				
	1. Initiate final Design	June 2007	-	-
	2. Submit Form 2A SPDES Application	-	June 2010	-
	3. Final Design Completion Including CPM Analysis	-	June 2011	-
	4. Notice to Proceed to Construction	June 2012	-	-
	5. Construction Completion	-	June 2015	-
<b>E. Destratification Facility</b>				
	1. Initiate Final Design	Jan. 2006	-	-
	2. Final Design Completion Including CPM Analysis	-	Oct. 2006	-
	3. Notice to Proceed to Construction	Aug. 2007	-	-
	4. Construction Completion	-	Dec. 2008	-
<b>F. Laurelton and Springfield Blvd.</b>				

<b>ITEM DESCRIPTION</b>	<b>START DATE</b>	<b>DUE DATE</b>	<b>% COMPLETE</b>
1. Submit Drainage Plan for Storm Sewer Buildout	-	Jan. 2008	20
<b>G. Regulator Automation</b>			
1. Initiate Final Design	Feb. 2005	-	100
2. Final Design Completion Including CPM Analysis	-	Nov. 2006	5
3. Notice to Proceed to Construction	Nov. 2007	-	-
4. Construction Completion	-	June 2010	-
<b>H. Drainage Basin Specific LTCPs</b>			
1. Submit Approvable Drainage Basin Specific LTCP for Bergen Basin	-	Aug. 2012	-
2. Submit Approvable Drainage Basin Specific LTCP for Thurston Basin	-	Aug. 2012	-
<b>VII. Coney Island Creek CSO</b>			
<b>A. Facility Plan Development</b>			
1. Submit Modified Facility Plan Report	-	Apr. 2003	100
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Coney Island Creek Waterbody / Watershed Facility Plan Report	July 2004	June 2007	30
<b>C. Avenue V Pumping Station Upgrade</b>			
1. Initiate Final Design	April 1998	-	100
2. Final Design Completion including CPM Analysis	-	Jan. 2005	100
3. Notice to Proceed to Construction	Nov. 2005	-	-
4. Construction Completion	-	Apr. 2011	-
<b>D. Avenue V Force Main</b>			
1. Initiate Final Design	Apr. 1998	-	100
2. Final Design Completion Including CPM Analysis	-	Sept. 2006	70
3. Notice to Proceed to Construction	July 2007	-	-
4. Construction Completion	-	June 2012	-
E. Submit Approvable Drainage Basin Specific LTCP for Coney Island Creek	-	Sept. 2007	-
<b>VIII. Newtown Creek CSO</b>			
<b>A. Facility Plan Development</b>			

<b>ITEM DESCRIPTION</b>	<b>START DATE</b>	<b>DUE DATE</b>	<b>% COMPLETE</b>
1. Submit Modified Facility Plan Report	-	Oct. 2003	100
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Newtown Creek Waterbody / Watershed Facility Plan Report	-	June 2007	10
<b>C. Aeration Zone I</b>			
1. Initiate Final Design	Mar. 2001	-	100
2. Final Design Completion Including CPM Analysis	-	Dec. 2004	100
3. Notice to Proceed to Construction	Dec. 2005	-	-
4. Construction Completion	-	Dec. 2008	-
<b>D. Aeration Zone II</b>			
1. Initiate Final Design	June 2007	-	-
2. Final Design Completion Including CPM Analysis	-	June 2010	-
3. Notice to Proceed to Construction	June 2011	-	-
4. Construction Completion	-	June 2014	-
<b>E. Relief Sewer / Regulator Modification</b>			
1. Initiate Final Design	June 2007	-	-
2. Final Design Completion Including CPM Analysis	-	June 2009	-
3. Notice to Proceed to Construction	June 2010	-	-
4. Construction Completion	-	June 2014	-
<b>F. Throttling Facility</b>			
1. Initiate Final Design	Dec. 2005	-	-
2. Final Design Completion Including CPM Analysis	-	June 2008	-
3. Notice to Proceed to Construction	June 2009	-	-
4. Construction Completion	-	Dec. 2012	-
<b>G. CSO Storage Facility</b>			
1. Initiate Final Design	Nov. 2010	-	-
2. Submit Form 2A SPDES Application	-	Nov. 2013	-
3. Final Design Completion Including CPM Analysis	-	Nov. 2014	-
4. Notice to Proceed to Construction	Dec. 2015	-	-
5. Construction Completion	-	Dec. 2022	-

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
H. Submit Approvable Drainage Basin Specific LTCP for Newtown Creek	-	Feb. 2016	-
<b>IX. Westchester Creek CSO</b>			
<b>A. Facility Plan Development</b>			
1. Submit Modified Facility Plan Report	-	Apr. 2003	100
2. Submit Form 2A SPDES Application	-	June 2009	-
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Westchester Creek Waterbody / Watershed Facility Plan Report	July 2004	June 2007	30
<b>C. Phase I (Influent Sewers)</b>			
1. Initiate Final Design	Jan. 2004	-	100
2. Final Design Completion Including CPM Analysis	-	June 2010	25
3. Notice to Proceed to Construction	June 2011	-	-
4. Construction Completion	-	June 2015	-
<b>D. CSO Storage Facility</b>			
1. Notice to Proceed to Construction	Dec. 2015	-	-
2. Construction Completion	-	Dec. 2022	-
E. Submit Approvable Drainage Basin Specific LTCP for Westchester Creek	-	Feb. 2016	-
<b>X. Bronx River CSO</b>			
<b>A. Facility Plan Development</b>			
1. Submit Modified Facility Plan Report	-	Sept. 2003	100
2. Submit Additional Modified Facility Plan Report	-	Mar. 2004	100
3. Submit Form 2A SPDES Application	-	July 2007	-
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Bronx River Waterbody / Watershed Facility Plan Report	July 2004	June 2007	75
<b>C. Floatables Control</b>			
1. Initiate Final Design	Jan. 2006	-	100
2. Final Design Completion Including CPM Analysis	-	July 2008	25
3. Notice to Proceed to Construction	June 2009	-	-

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
4. Construction Completion	-	June 2012	-
D. Submit Approvable Drainage Basin Specific LTCP for Bronx River	-	Aug. 2009	-
<b>XI. Hutchinson River CSO</b>			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	July 2003	100
2. Submit Form 2A SPDES Application	-	June 2009	-
B. Comprehensive Watershed Planning			
1. Submit Approvable Hutchinson River Draft Waterbody / Watershed Facility Plan Report	July 2004	June 2007	40
C. Phase I of the Storage Facility			
1. Initiate Final Design	Apr. 2005	-	100
2. Final Design Completion Including CPM Analysis	-	June 2010	10
3. Notice to Proceed to Construction	June 2011	-	-
4. Construction Completion	-	June 2015	-
D. Future Phases			
1. Notice to Proceed to Construction	Dec. 2016	-	-
2. Construction Completion	-	Dec. 2023	-
E. Submit Approvable Drainage Basin Specific LTCP for Hutchinson River	-	Feb. 2017	-
<b>XII. Jamaica Bay CSO</b>			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Dec. 2003	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Jamaica Bay Waterbody / Watershed Facility Plan Report	-	June 2007	-
2. Submit Approvable Creek Waterbody / Watershed Facility Plan Report	-	June 2007	-
3. Submit Approvable Fresh Creek Waterbody / Watershed Facility Plan Report	-	June 2007	-
4. Submit Approvable Hendrix Creek Waterbody / Watershed Facility Plan Report	-	June 2007	-

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
<b>C. Spring Creek AWPCP Upgrade</b>			
1. Initiate Final Design	Apr. 1998	-	100
2. Final Design Completion Including CPM Analysis	-	Feb. 2002	100
3. Submit Form 2A SPDES Application	-	June 2003	100
4. Notice to Proceed to Construction	Mar. 2003	-	100
5. Construction Completion	-	Apr. 2007	65
<b>D. 26th Ward Drainage Area Sewer Cleaning and Evaluation</b>			
1. Initiate Final Design	Jan. 2007	-	100
2. Final Design Completion Including CPM Analysis	-	June 2007	95
3. Notice to Proceed to Construction	June 2008	-	-
4. Construction Completion	-	June 2010	-
<b>E. Hendrix Creek Dredging</b>			
1. Initiate Final Design	Jan. 2007	-	-
2. Final Design Completion Including CPM Analysis	-	June 2007	-
3. Notice to Proceed to Construction	June 2008	-	-
4. Construction Completion	-	June 2010	-
<b>F. 26th Ward Wet Weather Expansion</b>			
1. Initiate Final Design	June 2006	-	-
2. Final Design Completion Including CPM Analysis	-	June 2010	-
3. Submit Form 2A SPDES Application	-	June 2009	-
4. Notice to Proceed to Construction	June 2011	-	-
5. Construction Completion	-	Dec. 2015	-
<b>G. Drainage Basin Specific Long Term Control Plans</b>			
1. Submit Approvable Drainage Basin Specific LTCP for Jamaica Bay	-	Aug. 2012	-
2. Submit Approvable Drainage Basin Specific LTCP for Spring Creek	-	Aug. 2012	-
3. Submit Approvable Drainage Basin Specific LTCP for Fresh Creek	-	Aug. 2012	-
4. Submit Approvable Drainage Basin Specific LTCP for Hendrix Creek	-	Aug. 2012	-
<b>XIII. Citywide Comprehensive Floatables Plan</b>			

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ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Dec. 2004	100
<b>XIV. Submit Approvable City-Wide LTCP</b>			
	-	Dec 2017	-

## **5.0. Community Relations**

### **5.1. Activities During the Reporting Period**

Developed a work plan for public participation; The public participation program will be consistent with EPA's CSO Control Policy which requires public participation and input to the process.

### **5.2. Activities Anticipated for Next Quarter**

Initiate public participation program in support of the waterbody/watershed plans under development.

## **6.0. Key Personnel Changes**

At this time, there are no major changes in key project personnel to report.

## **7.0. Other Issues**

At this time, there are no other issues identified that may materially affect the work required by this Order.

## **8.0. Status of LTCP Development**

According to the Order, the reporting on the progress of the Drainage Basin Specific LTCP development shall be included in the first and third quarterly reports of each calendar year beginning in the year 2005 and continuing until all Appendix A requirements have been completed and approved. The Order specifies that the following elements shall be addressed: (1) Characterization, Monitoring, and Modeling of the Combined Sewer System; (2) Public Participation; (3) Consideration of Sensitive Areas; (4) Evaluation of Alternatives; (5) Cost/Performance Considerations; (6) Operational Plan; (7) Maximizing Treatment at the Existing WPCP Treatment Plant; (8) Implementation Schedule; and (9) Post Construction Compliance Monitoring.

**APPENDIX A**

**CONSENT ORDER CERTIFICATION LETTERS**



**DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION**

59-17 Junction Boulevard  
Flushing, New York 11373

**Emily Lloyd  
Commissioner**

Warren Kurtz, P.E.  
Deputy Commissioner

Bureau of Environmental  
Engineering

96-05 Horace Harding Expwy  
Corona, NY 11368-5107

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APR 22 2005

Mr. Joseph DiMura, P.E.  
Director, Bureau of Compliance  
New York State Department of  
Environmental Conservation  
Division of Water  
625 Broadway, 4<sup>th</sup> Floor  
Albany, NY 12233-3500

**Re: Order on Consent (CSO Order)  
DEC Case #CO2-20000107-8  
Certification of Design Completion of Outer Harbor CSO/Regulator  
Improvements-Fixed Orifices - Contract CSO-OH-REG**

Dear Mr. DiMura:

In accordance with Section III F of the above referenced Consent Order for Combined Sewer Overflow (Order), this letter is to certify completion of final design milestone contained in Appendix A (Milestone II,C,2) for the Outer Harbor CSO /Regulator Improvements – Fixed Orifices, by the New York City Department of Environmental Protection (DEP).

In accordance with the definition of design completion set forth in Section III, paragraph H (1) of the Order, approvable plans and specifications are attached for your review. These documents are for review purposes only; they are not for public release and therefore are stamped “confidential”.

Also included in this submittal is a preliminary CPM schedule for the Outer Harbor CSO / Regulator Improvements – Fixed Orifices, as shown in Drawing No. CSO-OH-REG-G-4 in the contract drawings.

As required under the Order, approvable plans and specifications are also being provided to Timothy Burns of the NYS Environmental Facilities Corporation. Any necessary addenda to these plans and specifications will be provided as they become available. Please contact me at (718) 595-5973 if you have any questions regarding this submittal.

Very truly yours,

James G. Mueller, P.E.  
Director  
Planning and Capital Budget

Enc.

cc: w/attachments  
Timothy Burns, P.E.  
New York State Environmental Facilities Corporation  
625 Broadway  
Albany, New York 12207

Gary E. Kline, P.E.  
Division of Water  
New York State Department of Environmental Conservation  
625 Broadway 4<sup>th</sup> Floor  
Albany, NY 12233-3500

w/out attachments:  
Sandra Allen.  
Director, Division of Water  
New York State Department of Environmental Conservation  
625 Broadway  
Albany, NY 12233-3500

Robert Elburn, P.E.  
Regional Water Engineer  
Division of Water, Region 2  
New York State Department of Environmental Conservation  
47-40 21<sup>st</sup> Street  
Long Island City, New York 11101

Scott Crisafulli, Esq.  
Water Compliance Counsel  
New York State Department of Environmental Conservation  
Division of Environmental Enforcement  
625 Broadway, 14<sup>th</sup> Floor  
Albany, NY 12233-5500

William Plache, Esq.  
Assistant Corporation Counsel  
New York City Law Department  
100 Church Street  
New York, NY 10007

DEP: W. Kurtz, R. Levine, E. Rogak, J. Prero, M. Klein, S.Mallik,  
D.Taffe,G. Tang, File



**DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION**

59-17 Junction Boulevard  
Flushing, New York 11373

**Emily Lloyd  
Commissioner**

**Warren Kurtz, P.E.  
Deputy Commissioner**

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APR 20 2005

Mr. Joseph DiMura, P.E.  
Director, Bureau of Compliance  
New York State Department of  
Environmental Conservation  
Division of Water  
625 Broadway, 4<sup>th</sup> Floor  
Albany, NY 12233-3500

**Re: Order on Consent (CSO Order)  
DEC Case #CO2-20000107-8  
Certification of Initiation of Final Design for the Hutchinson River CSO/  
Storage Facility – Phase I**

Dear Mr. DiMura:

In accordance with Section III F of the above referenced Consent Order for Combined Sewer Overflow (the Order), this letter is to certify the compliance with a milestone contained in the Order by the New York City Department of Environmental Protection (DEP). Specifically, final design has been initiated for Phase I of the storage facility for the Hutchinson River, in conformance with milestone XI, C, 1 in Appendix A of the Order.

Please contact me at (718) 595-5973 if you have any questions regarding this certification.

Very truly yours,

James G. Mueller, P.E.  
Director  
Planning and Capital Budget

cc: Sandra Allen  
Director, Division of Water  
New York State Department of Environmental Conservation  
625 Broadway  
Albany, NY 12233-3500

Scott Crisafulli, Esq.  
Water Compliance Counsel  
New York State Department of Environmental Conservation  
Division of Environmental Enforcement  
625 Broadway, 14<sup>th</sup> Floor  
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J. Romano, G. Tang, , File

APR 20 2005



**DEPARTMENT OF  
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Mr. Joseph DiMura, P.E.  
Director, Bureau of Compliance  
New York State Department of  
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Division of Water  
625 Broadway, 4<sup>th</sup> Floor  
Albany, NY 12233-3500

**Re: Order on Consent (CSO Order)  
DEC Case #CO2-20000107-8  
Certification of Initiation of Final Design for the Bronx River CSO  
/Floatables Control**

Dear Mr. DiMura:

In accordance with Section III F of the above referenced Consent Order for Combined Sewer Overflow (the Order), this letter is to certify the compliance with a milestone contained in the Order by the New York City Department of Environmental Protection (DEP). Specifically, final design has been initiated for the floatables control for the Bronx River, in conformance with milestone X, C, 1 in Appendix A of the Order.

Please contact me at (718) 595-5973 if you have any questions regarding this certification.

Very truly yours,

James G. Mueller, P.E.  
Director  
Planning and Capital Budget



[www.nyc.gov/dep](http://www.nyc.gov/dep)

DIAL 311 Government Information  
and Services for NYC

cc: Sandra Allen  
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MAY 24 2005

Re: Order on Consent (CSO Order)  
DEC Case #CO2-20000107-8  
Certification of Design Completion of Jamaica Tributaries CSO/  
Meadowmere & Warnerville DWO Abatement - Contract PS-216 G, E

Dear Mr. DiMura:

In accordance with Section III F of the above referenced Consent Order for Combined Sewer Overflow (the Order), this letter is to certify completion of final design milestone contained in Appendix A (Milestone VI, C, 2) for the Jamaica Tributaries CSO/Meadowmere & Warnerville DWO Abatement, by the New York City Department of Environmental Protection (DEP).

In accordance with the definition of design completion set forth in Section III, paragraph H (1) of the Order, approvable plans and specifications are attached for your review. These documents are for review purposes only; they are not for public release and therefore are stamped "confidential."

Also included in this submittal is a preliminary CPM schedule diagram for the Jamaica Tributaries CSO/Meadowmere & Warnerville DWO Abatement, as shown in Drawing No. G-G-4 in the contract drawings.

As required under the Order, approvable plans and specifications are also being provided to Timothy Burns of the NYS Environmental Facilities Corporation. Any necessary addenda to these plans and specifications will be provided as they become available. Please contact me at (718) 595-5973 if you have any questions regarding this submittal.

Very truly yours,

James G. Mueller, P.E.  
Director  
Planning and Capital Budget

Enclosures



[www.nyc.gov/dep](http://www.nyc.gov/dep)

DIAL 311 Government Information  
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cc: w/attachments  
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w/out attachments:  
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New York State Department of Environmental Conservation  
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MAY 19 2005



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New York State Department of  
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Division of Water  
625 Broadway, 4<sup>th</sup> Floor  
Albany, NY 12233-3500

Re: Order on Consent (CSO Order)  
DEC Case #CO2-20000107-8  
Certification of Construction Completion of Flushing Bay CSO / CD-8  
Manual Sluice Gates - Contract No. JOC - 1G - 20010013610

Dear Mr. DiMura:

In accordance with Section III F of the above referenced Consent Order for Combined Sewer Overflow (the Order), this letter is to certify the compliance with a milestone contained in the Order by the New York City Department of Environmental Protection (DEP). Specifically, construction has been completed for the Flushing Bay CSO/CD-8 Manual Sluice Gates, in conformance with Milestone V, H, 3 in Appendix A of the Order.

Please contact me at (718) 595-5973 if you have any questions regarding this submittal.

Very truly yours,

James G. Mueller, P.E.  
Director  
Planning and Capital Budget

cc: Timothy Burns, P.E.  
New York State Environmental  
Facilities Corporation  
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