

**NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP)  
BUREAU OF ENGINEERING DESIGN AND CONSTRUCTION  
CROTON FACILITY MONITORING COMMITTEE MEETING MINUTES  
THURSDAY, JUNE 6, 2013 – 7:00 PM**

The Croton Facility Monitoring Committee (CFMC) met on Thursday, June 6, 2013 at the DEP Office, 3660 Jerome Avenue, Bronx, NY 10467.

**Welcome**

The meeting started shortly after 7:10 pm. All CFMC members were represented.

**Attending - CFMC Representatives – Attachment 1**

Steve DesNoyer, Representative of the Department of Parks and Recreation (DPR); Mr. Fanuzzi, Chair, Community Board # 8; Rev. William Francis, Community Board #7; Wilhelm Ronda, Representative of the Bronx Borough President; Father Richard Gorman, Chair, Community Board #12; George Diaz, Office of Council Member Oliver Koppell; Shane Ojar, DEP. **Others Attending:** Assembly Member Jeffrey Dinowitz; DEP Staff; DEP Construction Manager; and members of the public.

**Adoption of CFMC Meeting Agenda - Attachment 2**

The meeting agenda was accepted by the CFMC.

**Adoption of CFMC Meeting Minutes from March 21, 2013**

The CFMC adopted the March 21st meeting minutes, following a motion by Mr. Ronda, seconded by Mr. Francis.

**Update on DPR Jogging Path Construction at Jerome Park Reservoir (JPR)**

Before discussing the jogging path project, Mr. Fanuzzi requested from DPR a summary of the Croton funded projects in the Memorandum of Understanding (MOU). He asked for DPR's aggregated spending for 2012, and anticipated spending for 2013. Mr. DesNoyer recapped that in FY 2011 DPR expended \$5.597 million; in FY 2012 DPR spent \$6.8 million; and in FY 2013 the amount will be \$8.5 million. For 2014 the cost will be approximately \$10 to \$15 million, as additional projects come through design or go into construction. Total registered DPR projects are \$151 million. \$50 million more will be spent under the MOU. (List is *Attachment 3*) Gary Axelbank, area resident, said as he has previously, that projects are getting built beyond the dates in the MOU.

Mr. Fanuzzi and Daniel Padernacht, Community Board #8, described complaints from angry residents near Jerome Park Reservoir's (JPR) west perimeter before and during Memorial Day weekend as the jogging path contractor cordoned off up to 30 parking spaces for supplies and truck deliveries. There was a lengthy discussion about limited parking spaces where contractor is working; about the contractor's fence which blocks pedestrians from using the sidewalk and forces them into the road; about removed benches and sitting areas; and missing signage.

Mr. DesNoyer spoke about the activities that are underway along Sedgwick Avenue, Reservoir Road and Giles Place. The contractor is working in 1000 ft sections from the southern part of the project to the north. Tree removal and tree stump grinding are in progress, sidewalk replacement and laying jogging path surfaces follow. DPR's Brian Taylor is the project's resident engineer. Mr. DesNoyer went to the site with DPR staff following complaints from Nicole Stent, Community Board #8's District Manager. After Memorial Day weekend the contractor reduced the footprint of the work area along the curb for material and equipment.

Mr. Fanuzzi asked DPR to present a specific schedule at the next meeting – activities and chronology -- for Community Board #8's Parks Committee. At the meeting residents can hear when and where the contractor will be working. Community Board #8 will alert residents ahead of specific locations of the construction. Mr. DesNoyer agreed. [Note: Presentation to Parks Committee was June 11.]

Mr. Ronda suggested DPR review Department of Design and Construction's project outreach information. Mr. Fanuzzi recognized DEP's advanced notifications as another good example of timely public information.

**DEP Responses about Schlesinger Siemens Electrical (SSE) Attachment 4 and Site-wide Emergency Generator for the Croton Filter Plant Attachment 5**

Mr. Fanuzzi asked if the CFMC had comments about DEP's responses. Mr. Ronda said the DEP letters were very thorough. He said the CFMC acted responsibly by asking about these matters. Bernard Daly, DEP, explained that the Croton Integrity Monitor, the Croton Construction Manager (CM) and DEP work closely on construction of the Croton Filter Project.

Mr. Daly pointed to the efforts of the Construction Management team at Croton who are responsible for the inspection of the work done by all of the contractors. It is comprised of engineering and inspection personnel who are experienced with electrical installation and all other aspects of plant construction. Mr. Fanuzzi said they had not understood until now the breadth of the CM's responsibilities. In response to Mr. Padernacht's questions, Mr. Daly stressed that the Integrity Monitor reports only to the NYC Department of Investigation. Neither the Integrity Monitor, nor DEP, nor the Department of Investigation would ever report publicly that an investigation is or was underway. Fr. Gorman asked whether the hiring of an Integrity Monitor is unusual. Mr. Daly said that the Integrity Monitor for Croton may have been one of the first; however, subsequent large projects, such as the rebuilding of the World Trade Center site have Integrity Monitors and they are considered very helpful on large, complicated projects.

Mr. Daly described the nature and type of the unapproved couplings that were installed at Croton and were then removed by SSE. A further discussion took place, initiated by Mr. Dinowitz, about why a contractor who has committed a violation or made a mistake is ever allowed to work for the city on other projects. Mr. Ojar explained, as he has at prior meetings, that the city-wide procurement rules and contracting procedures govern how and when a contractor may be or would be hired by any agency or department.

Mr. Fanuzzi said he regretted that DEP had not told the CFMC about getting a waiver from NYS Department of Health to install a site-wide Croton Filter Plant emergency generator. Karen Argenti, BCEQ, said it was another example of DEP designing and building the project to fit on a site in the Bronx, instead of putting the facility at an upstate location where there was more room.

### **CFMC Tour of JPR**

Mr. Ojar said he did not have dates for a CFMC tour but he has made the request. Mr. Fanuzzi said the CFMC wants a tour in preparation for the DEP public access pilot program at JPR. Mr. Francis reminded Mr. Ojar that the CFMC now has several representatives who were not in office in 2011 when the last tour took place. He urged DEP to conduct the tour before the end of summer 2013.

### **Croton Construction Update, Costs and Schedule**

Mr. Daly asked if the CFMC had questions about the previously-distributed costs report (*Attachment 6*). There were no questions.

Mr. Daly provided the construction update (*Attachment 7*):

Construction at the Croton Filter Plant at Van Cortlandt Park (VCP) is continuing. Most mechanical process equipment inside the plant is installed. Checkout, Field Equipment Testing and Field System Testing is ongoing. Placement of filter media (sand and anthracite) is ongoing. Electrical, heating, ventilation and air conditioning (HVAC), plumbing and interior finish work in the plant continues. Construction of the DEP above-grade structures, retaining and gabion walls, green roof, and site grading are proceeding at the VCP site.

At JPR, construction of the Croton Shaft and Meter Chamber/Distribution Chamber is almost complete. Minor change order and punch list work is underway. In Goulden Avenue the connection to two high service water mains will be made with a scheduled shutdown of Goulden Avenue from Sedgwick Avenue to 205 Street and detour to Paul Avenue, in late June through August 2013, when schools are not in regular session. Notices about the upcoming work will go out shortly to the public. (*Attachment 8*) In preparation for work in the Gate House No. 7 area, there have been a few noise complaints as very hard rock was excavated; however, the complaints were confined to a very short period.

As part of the Croton Filter Plant testing, the JPR North Basin will be periodically filled and drained this fall as raw water flows through the Croton Filter Plant. After treatment, water will be discharged into the Harlem River and will not go to the City's water distribution system. Water is expected in the south basin by Spring 2014 also as part of the Croton Filter Plant testing.

Ms. Argenti said there is dust and dirt at JPR. Messrs. Daly and Farrell, along with DPR, have been addressing the removal of dead trees, cutting the grass, attending to

maintenance issues and street sweeping. Some illegal dumping of household construction materials along Goulden Avenue has been found and DEP contractors have removed the materials to keep the area clear. The Department of Sanitation has also been notified about the dumping.

Electrical upgrades are underway in the various Gate Houses at JPR and at Gate House No. 1. In concert with DPR, DEP is performing site restoration at Gate House No. 1. Plumbing, HVAC and interior finish work in Gate House No. 5 continues. A new temporary roof was installed at Gate House No. 2.

After completion of the Goulden Avenue work this summer, as previously explained, additional space in a lane of Sedgwick Avenue will be needed to better access Shaft 3 on the corner of Goulden Avenue and Sedgwick Avenue for work in Shaft 3. A portion of the eastbound right lane of Sedgwick Avenue near Goulden Avenue will become part of an expanded DEP work area for six months, beginning in fall 2013.

Removal of the Microstrainer Building is awaiting a Department of Buildings demolition permit, and the permit paperwork is in process. In response to Ms. Argenti, Mr. Daly explained that all Microstrainer Building demolition will be inside a structure that will cover the Microstrainer Building so no dust or other material will get into the community. Bids for the demo work were taken, and DEP is working with the demolition contractor on getting the required submittals in place.

Ms. Argenti complained about the demonstration filter plant slab that was to be removed but is still in place. Messrs. Daly and Farrell said that all above-ground parts of the demonstration filter plant were removed four years ago. The slab contains asbestos waterproofing on the perimeter walls. This complicates the removal issue, DEP has proposed to phase the removal of the slab and the underground material, and is currently in discussion with the Department of Buildings on the plan. Mr. Francis asked why DEP cannot get all permits before starting the work. Mr. Farrell said that both the work at Demonstration Plant & Microstrainer building require a number of permits/approvals from DOB and other agencies. DEP is working with those agencies in preparing the submittals for both projects. All parties must be convinced of the safety and effectiveness of the DEP approach before DEP can proceed. Consequently, the job will likely need to be phased.

Force main test pits were restored, roadway striping work has been completed and minor punch list items are largely closed out. The force main contract is being closed out.

### **CFMC Discussion**

Because of holidays, the CFMC's next meeting will be on Thursday, September 12, 2013.

The CFMC representatives unanimously agreed to adjourn the meeting at 8:40pm.

<u>Name</u>	<u>Organization / Company</u>	<u>Address</u>	<u>Phone</u>	<u>Fax</u>	<u>E-Mail</u>
Vincent Moorehead PE	Department of Environmental Protection	3701 Jerome Avenue Bronx, NY 10467	(718) 696-2000		<a href="mailto:vmooreshead@dep.nyc.gov">vmooreshead@dep.nyc.gov</a>
Thomas Farrell PE	URS-MP Construction Management	3701 Jerome Avenue Bronx, NY 10467	(718) 696 2000		<a href="mailto:thomas.farrell@shawgrp.com">thomas.farrell@shawgrp.com</a>
Dan Padernacht	Community Board #8	5676 Riverdale Avenue Bronx NY 10471	(718) 884-4740		<a href="mailto:dpadernachtcb8@gmail.com">dpadernachtcb8@gmail.com</a>
Robert Fanuzzi	Community Board #8	5676 Riverdale Avenue Bronx NY 10471	(718) 884-4740		<a href="mailto:fanuzzir@stjohns.edu">fanuzzir@stjohns.edu</a>
Steve Des Noyer	Department of Parks & Recreation	Olmstead Center Flushing Meadows-Corona Park	(718) 760-6617		<a href="mailto:steve.desnoyer@parks.nyc.gov">steve.desnoyer@parks.nyc.gov</a>
William Francis	Community Board #7	229 A East 204 Street Bronx NY 10458	(718) 933-5650		<a href="mailto:wfrancis@bronxcb7.info">wfrancis@bronxcb7.info</a>
Gary Axelbank	Sedgwick Avenue Resident	1 Bronx River Parkway Bronx NY	(914) 740-6758		<a href="mailto:qxinthebronx@gmail.com">qxinthebronx@gmail.com</a>
Bernard Daly PE	Department of Environmental Protection	3701 Jerome Avenue Bronx, NY 10467	(718) 696-2000		<a href="mailto:bdaly@dep.nyc.gov">bdaly@dep.nyc.gov</a>
George Diaz	Office of Council Member Oliver Koppell	3636 Waldo Avenue Bronx NY 10463	(718) 549-7300		<a href="mailto:gdiaz@council.nyc.gov">gdiaz@council.nyc.gov</a>
Martha Holstein	Strategic Urban Solutions, Inc.	335 Adams Street Brooklyn, NY 11201	(718) 625-1005		<a href="mailto:mholstein@urbansol.com">mholstein@urbansol.com</a>
Ilona Linins	Lehman College	250 Bedford Park Blvd W Bronx NY	(718) 960-8988		<a href="mailto:ilona.linins@lehman.cuny.edu">ilona.linins@lehman.cuny.edu</a>
Robert Press	Bronx News	3155 Rochambeau Bronx NY 10467	(718) 653-6992		<a href="mailto:100percentbronxnews@gmail.com">100percentbronxnews@gmail.com</a>
Father Richard Gorman	Community Board #12	4101 White Plains Rd Bronx NY 10466	(718) 881-4455		<a href="mailto:rgorman@cb.nyc.gov">rgorman@cb.nyc.gov</a>
Wilhelm Ronda	Office of Bronx Borough President Diaz	198 East 161st Street Bronx, NY 10451	(718) 590-8087		<a href="mailto:wronda@bxbp.nyc.gov">wronda@bxbp.nyc.gov</a>



## **Attachment 2**

### **Agenda Croton Facility Monitoring Committee Meeting**

Thursday, June 6, 2013 – 7:00 PM  
DEP Office – 3660 Jerome Avenue, Bronx NY 10467 - (718) 231-8470

- |   |                              |
|---|------------------------------|
| <b>I Welcome</b>  | Bob Fanuzzi, Chair           |
| <b>II Consider, Adopt June CFMC Agenda</b>  | CFMC Representatives         |
| <b>III Consider, Adopt 3/21/13 Meeting Minutes</b>  | CFMC Representatives         |
| <b>IV Update on Jogging Path Construction<br/>At Jerome Park Reservoir</b>                            | DPR                          |
| <b>V Discuss DEP Responses regarding<br/>SSE Performance<br/>Croton Site-wide Emergency Generator</b> | CFMC Representatives and DEP |
| <b>VI Discussion about CFMC Request for Tour<br/>of Jerome Park Reservoir</b>                         | CFMC and DEP                 |
| <b>VII Croton Construction Update &amp; Croton<br/>Costs Report</b>                                   | Bernard Daly, DEP            |
| <b>VIII CFMC Discussion. Confirm Date for<br/>September 19, 2013 CFMC Meeting</b>                     | CFMC Representatives         |
| <b>IX Adjourn</b>   |                              |

Department of Parks and Recreation  
Croton Capital Projects Registered by Fiscal Year  
Reported to Croton Facility Monitoring Committee on June 6, 2013  
Budget Line WM0011

<u>Year</u>	<u>Registration Amounts (B/L WM0011)</u>
2005	\$ 7,543,861
2006	\$ 14,809,851
2007	\$ 38,365,291
2008	\$ 26,045,925
2009	\$ 19,366,253
2010	\$ 25,383,145
2011	\$ 5,597,309
2012	\$ 6,008,341
2013 as of 6/4/13	\$ 8,517,625
<b>TOTAL</b>	<b><u><u>\$ 151,637,601</u></u></b>



May 8, 2013

Croton Facility Monitoring Committee  
c/o Mr. Robert Fanuzzi  
Chair, Community Board #8  
5676 Riverdale Avenue  
Bronx, New York 10471

Carter H. Strickland, Jr.  
Commissioner

Re: Croton Filter Plant - WM-11 Croton Water Treatment Plant at the Mosholu Golf Course, Van Cortlandt Park, Bronx – Schlesinger-Siemens Electrical, LLC Contracts

cstrickland@dep.nyc.gov  
59-17 Junction Boulevard  
Flushing, NY 11373  
T: (718) 595-6565  
F: (718) 595-3557

Dear Mr. Fanuzzi and Croton Facility Monitoring Committee Members:

Thank you for your January 28, 2013, letter requesting information on the contracts the New York City Department of Environmental Protection (DEP) signed with the electrical contractor Schlesinger-Siemens Electrical, LLC (SSE) for construction services at the Croton Water Treatment Plant (Plant). In addition, you also requested clarification on DEP's role in the City's investigation of SSE's licensing.

Before I address those issues, I would like to state that at no time was the health and safety of the workers or public at risk at the Plant. The safe completion of contract work is our number one priority. To help oversee this task we contracted with a full time on-site construction manager (CM), URS/Malcolm Pirnie, prior to the commencement of construction in 2004. The CM's team includes an electrical supervisory component whose sole responsibility is to monitor and ensure the integrity of all electrical work at the site. In an effort to ensure that all work was and is being performed in compliance with all applicable requirements, DEP enlisted an Integrity Monitor to work with the New York City Department of Investigation (DOI) to monitor the project. The Monitor's role is to assess construction management and payment processes for efficiency and accuracy in an effort to detect and deter waste, fraud, and abuse.

SSE started work on August 21, 2007 at the Plant under Contracts CRO-312E1 and CRO-312E2 (to which additional work required by DEP was subsequently added by change orders that were registered by the Comptroller). The following are the principal areas of work under each of the contracts and their current status:

**Contract CRO-312E1**

1. Furnish, install, operate, and maintain temporary electrical system and eventual demolition of temporary system
  - Status: Temporary power and lighting systems both within the Plant and throughout the site have been established. They are being removed as permanent work is installed.
2. Provide low voltage electric power, lighting, control equipment and wiring for the Plant emanating from the 480-volt feeders to the secondary unit substations and down to the lowest voltage circuit
  - Status: All unit substations have been installed and energized.
  - Status: All motor control centers as well as down-stream transformers and panels have been energized with the exception of one motor control center in the Arrivals and Receiving Building.
  - Status: The majority of the Plant's permanent lighting has been installed.
3. Provide internal facility radio communications and distributed antenna systems
  - Status: Conduit for Lower and Operating level radio system is underway.
4. Provide permanent facility telephone system and manage existing construction site telephone system
  - Status: Conduit duct bank connecting the Plant to Jerome Avenue is complete.
  - Status: Branch telephone/PC outlets being installed throughout the Plant
5. Establish fire alarm, security, telephone, paging, lighting protection, grounding, and plant monitoring and control systems
  - Status: Fire alarm work is progressing throughout electric rooms, chemical rooms HVAC rooms and all administrative areas.
  - Status: Security system branch work underway throughout the Plant. Lightning protection and grounding being installed along with the progression of the project.
  - Status: Plant monitoring system is installed and is being tested.
6. Establish site lighting and site electrical power distribution system
  - Status: Duct banks servicing the project's permanent site light are under way.

**Contract CRO-312E2**

1. Furnish, install, operate, and maintain a temporary electrical system; assume operation and maintenance activities of construction substations and construction electrical systems for the site; operate and maintain existing 500 kW standby generator and appurtenances for the engineers' office complex and eventual demolition of the temporary systems
  - Status: Temporary power system has been fully installed and is being removed in

areas where permanent work has been installed.

2. Coordinate with Consolidated Edison Company of New York to bring four permanent 13.2 kV feeders to the Plant, and assume activities for the three construction or temporary
3. 13.2 kV feeders and construction substations
  - Status: All four 13.2kV services have been installed in the project's two new permanent duct banks. Two of the four services have been energized by Con Ed.
4. Install high and medium voltage electric power equipment and wiring for the Plant from the 13.2 kV electric services down to the secondary unit substations, including all power, controls and accessories for the main substation, and 5kV feeders connected to the raw water and treated water pumps
  - Status: All 13.2kV electrical distribution equipment has been installed. Two of the four equipment line-ups have been energized.
  - Status: All 4160v electrical distribution has been installed and energized for service to both raw and treated water pumps as well as downstream secondary unit substations.

As you know, the office of the Manhattan District Attorney recently concluded an investigation into criminal conduct by SSE. The press release detailing their settlement with SSE is attached. As stated in the release, SSE "safely and successfully completed the majority of the work it was hired to do" despite its filing of false documents.

The issue of the Master Electrician falsely representing himself as SSE's Responsible Representative came to light in December of 2008. The CM notified DEP when the issue was discovered and we immediately informed the Department of Investigation, the Integrity Monitor, and the Department of Buildings. We also told SSE that they must have the proper licensing in place to continue working at the Plant. Up to that point, all work by SSE at the site was either temporary or preparatory in nature, including installing temporary power and light for construction activities and construction of empty conduits that would later contain electrical wiring. SSE obtained the proper licensing in 2009.

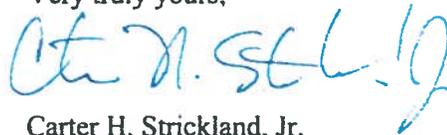
There was never a lack of oversight of the SSE work and, based on both continuing CM supervision of SSE activities and on the temporary and preparatory nature of the work, DEP has confidence that the deficiency in licensing did not impact the quality of electrical work at the Plant.

In a separate matter involving SSE, on May 27, 2010, during a regular inspection of electrical work, the CM discovered that the type of threaded couplings (Walsall) in use were not approved for use on the project. The CM promptly sent a construction deficiency notification to SSE. Thereafter, with the cooperation of SSE, the CM surveyed the Plant in detail and found that twenty-four Walsall threaded couplings were installed. SSE was directed to remove and replace

them with approved threaded couplings at no cost to the City. To date, twenty-three of the twenty-four Walsall threaded couplings have been removed. To date, the couplings are the only work items performed by SSE that DEP and CM staff have found to be deficient. We continue to rigorously inspect all work at the Plant to ensure that all work performed meets or exceeds the required standards. To date the CM has employed a full time electrical inspection staff which monitors, on a daily basis, both the quantity and quality of work installed based on DEP contract documents and applicable codes.

I reiterate that at no time were public health or public safety affected by SSE's defrauding of the City of New York through the filing of false documents. DEP is committed to the highest safety, ethical, and work standards for construction of the Plant and demands no less of its contractors.

Very truly yours,

A handwritten signature in blue ink, appearing to read "Carter H. Strickland, Jr.", is written over the typed name.

Carter H. Strickland, Jr.

- c: Members of the Croton FMC  
Kathryn Mallon, Deputy Commissioner, BEDC  
Michael Borsykowsky, Assistant Commissioner, BEDC  
Mark Lanaghan, Assistant Commissioner, BCIA  
Shane Ojar, Director of Community Partnerships, BCIA  
Gerard Cox, Portfolio Manager, BEDC  
Arne Fareth, Administrative Engineer, BEDC  
Bernard Daly, Associate Project Manager, BEDC



May 8, 2013

Mr. Robert Fanuzzi, Chair  
Community Board #8  
Croton Facility Monitoring Committee  
5676 Riverdale Avenue  
Bronx, NY 10471

Carter H. Strickland, Jr.  
Commissioner

Re: Croton Water Filtration Plant Emergency Generator

Dear Mr. Fanuzzi:

cstrickland@dep.nyc.gov  
59-17 Junction Boulevard  
Flushing, NY 11373  
T: (718) 595-6565  
F: (718) 595-3557

Thank you for your letter dated January 28, 2013, in which you requested additional information on the New York State Department of Health's (SDOH) approval of the design for the Croton Water Filtration Plant (Plant).

Before I review the details of our submission to SDOH, I would like to review the role the Plant will play in serving the water supply needs of the City of New York. As my staff explained at the January 2013 meeting of the Croton Facility Monitoring Committee (CFMC), the primary source of the City's drinking water is the Catskill-Delaware Watershed system (Cat/Del system). The Croton Watershed system (Croton system), once it becomes operational again, will provide approximately 10% of the City's water supply on an annual basis. This small percentage means that it is considered a supplemental supply to the overall volume needed and as a consequence the Plant was designed for that limited role.

As part of the design process of the Plant, New York City Department of Environmental Protection (DEP) submitted a complete Design Report (detailed plans and specifications for the Plant's equipment) to the SDOH on April 26, 2006, in accordance with their requirements. With regard to the issue of back-up power in the event of a partial or full power outage at the plant, the Design Report provided details regarding the emergency diesel generator that would provide power for life safety security and the powering down process. DEP presented the Design Report of the Plant to SDOH in a presentation on May 9, 2006. SDOH approved the design of the Plant on May 19, 2008. The rationale for their approving the Design Report as it relates to the State Sanitary Code § 5-1.22(b) is explained in their October 25, 2012, response to Mr. Robert Cooney (attached). As stated in the letter:

“Even after the Plant is online, the higher elevations of Bronx and Manhattan area will continue to have two separate sources of water supply thereby complying with the requirement of the State Sanitary Code 5-1.22 (b).”

I would like to emphasize to the CFMC that maintaining a safe and reliable water supply for the City of New York is DEP's paramount concern and we have designed the City's water supply system to meet that demand in the event of a partial or full power outage at the Plant. In the event of a power outage at the Plant, DEP designed the Plant to be able to immediately switch over to Cat/Del water, which does not have to be filtered, for any Croton-related distribution requirements. This means that any areas served by the Plant would not experience any water service interruption. Once power is restored at the Plant, the Croton system can be brought back into service, as needed.

The Plant will be served by four electric service feeders rated at 13.2 kilovolts. The Con Ed electric service is designated as first contingency, which means that in case any one service feeder and/or service equipment are out of service, the Plant could still operate up to its maximum flow capacity of 290 million gallons per day (mgd). If any two service feeders and/or service equipment are out of service, the Plant could still run up to the average day demand of 144 mgd.

In the event all four Con Ed service feeders are out of service, the emergency diesel generator rated at 2000 kilowatts, 480 volts, (with provision for connecting a mobile generator as a backup) will provide emergency power for lighting, security, fire pumps, fire alarm, fire protection, smoke purge exhaust fans, communications, plant controls and monitoring, and other essential equipment. In this event, the Plant's water treatment process and pumping operations will be stopped until Con Ed power is restored. During such an event, Cat/Del water can be fed into the Plant's treated water wetwell by opening six pressure reducing valves. These pressure reducing valves have enough capacity to satisfy the Low Service demand of up to 180 mgd. The power for operation of these valves is provided by the diesel emergency generator. While the diesel generator is not powerful enough to run the entire Plant, we have designed the system to ensure that the demands of the Plant's service areas can be met at all times.

To reiterate, in the event of a power failure at the Plant or when the Plant is not in use, DEP can direct water from the Cat/Del water system to the Plant via use of the pressure reducing valves to supplement any of the Plant's service areas. I would like to emphasize that the Cat/Del system has sufficient capacity to serve the entire New York City distribution system with the Plant offline.

Supplying clean drinking water to the City of New York is one of DEP's primary functions and we work to ensure that all of our facilities meet this crucial mandate, regardless of the circumstance.

Very truly yours,



Carter H. Strickland, Jr.

WM-11 Croton Water Treatment Plant  
Cost Summary as of 4/30/2013

Croton WTP Construction Costs							
Contract	Contractor Name	Original Contract Price	Registered Change Orders	Current Contract Amount	Amount Invoiced to Date	% Contract Increase	% Complete based on Amount Invoiced to Date
CRO-311	Schiavone Construction Co.	\$127,660,000	-\$14,445,214	\$113,214,786	\$113,214,786	-11%	100%
CRO-312G	Skanska/Tully, JV	\$1,327,700,000	\$147,656,524	\$1,475,356,524	\$1,307,249,741	11%	89%
CRO-312E1	Schlesinger-Siemens, LLC	\$134,680,000	\$26,414,767	\$161,094,767	\$104,508,020	20%	65%
CRO-312E2	Schlesinger-Siemens, LLC	\$37,678,000	\$10,381,889	\$48,059,889	\$35,298,757	28%	73%
CRO-312H	Durr Mechanical Construction	\$105,700,000	\$25,342,381	\$131,042,381	\$110,374,878	24%	84%
CRO-312P	Picone/WDF, JV	\$58,475,000	\$15,180,817	\$73,655,817	\$67,720,163	26%	92%
CRO-312OS-G	Picone-Schiavone, JV	\$96,842,500	\$31,356,468	\$128,200,968	\$103,085,481	32%	80%
CRO-312OS-E	Eidor Electric	\$15,762,500	\$1,874,102	\$17,636,602	\$14,694,972	12%	83%
CRO-312OS-H	AWL Industries	\$822,000	\$56,971	\$878,971	\$448,643	7%	51%
CRO-312OS-P	JPP Plumbing	\$872,000	\$235,755	\$1,107,755	\$860,871	27%	78%
CRO-312FM (1)	Maspeth Supply Co. LLC	\$18,626,745	-\$324,387	\$18,302,358	\$1,628,792	-2%	9%
CRO-313	Schiavone/Picone, JV	\$212,227,000	-\$6,787,681	\$205,439,319	\$205,645,619	-3%	100%
CRO-315G	Angelakis Construction Corp.	\$3,641,000	\$2,282	\$3,643,282	\$3,643,282	0%	100%
CRO-315E	Interphase Electric	\$807,317	\$144,874	\$952,191	\$952,191	18%	100%
CRO-312CE	Con Edison	\$4,074,526	\$0	\$4,074,526	\$2,716,351	0%	67%
<b>TOTAL</b>		<b>\$2,146,563,633</b>	<b>\$237,091,648</b>	<b>\$2,382,660,136</b>	<b>\$2,073,042,645</b>	<b>11%</b>	<b>87%</b>
Croton WTP Design / Construction Management Costs							
HED-543 DES	Metcalf & Eddy / Hazen and Sawyer, JV	\$44,226,000	\$248,899,624	\$293,125,624	\$279,162,109	563%	95%
HED-545 CM	URS/Malcolm Pirnie, JV	\$63,400,000	\$76,195,713	\$139,595,713	\$124,377,737	120%	89%
<b>TOTAL</b>		<b>\$107,626,000</b>	<b>\$325,095,337</b>	<b>\$432,721,337</b>	<b>\$403,639,846</b>	<b>302%</b>	<b>93%</b>

Rehabilitation of the New Croton Aqueduct Construction Costs							
Contract	Contractor Name	Original Contract Price	Registered Change Orders	Current Contract Amount	Amount Invoiced to Date	% Contract Increase	% Complete based on Amount Invoiced to Date
CRO-334G	Frontier-Kemper/Schiavone/ Picone JV	\$91,696,805	\$23,792,920	\$115,489,725	\$105,326,440	26%	91%
CRO-334E	Community Electric	\$1,119,000	\$292,715	\$1,411,715	\$1,034,088	26%	73%
<b>TOTAL</b>		<b>\$92,815,805</b>	<b>\$24,085,635</b>	<b>\$116,901,440</b>	<b>\$106,360,529</b>	<b>26%</b>	<b>91%</b>
Rehabilitation of the New Croton Aqueduct Construction Management Costs (2)							
TCM-CRO-334	Washington/HAKS JV	\$5,952,446	\$2,161,900	\$8,114,346	\$8,081,027	36%	100%
<b>TOTAL</b>		<b>\$5,952,446</b>	<b>\$2,161,900</b>	<b>\$8,114,346</b>	<b>\$8,081,027</b>	<b>36%</b>	<b>100%</b>

**Notes:**  
 (1) Costs shown for CRO-312FM are for the original Force Main Route to Hunts Point WPCP.  
 (2) Design costs for CRO-334G and CRO-334E are included in Contract HED-543 DES.





## **Environmental Protection**

### **TRAFFIC CHANGES/DETOUR**

**June 27 through August 31, 2013**

To make critical underground water main connections this summer, the New York City Department of Environmental Protection (DEP) must close Goulden Avenue in both directions between Sedgwick Avenue and 205<sup>th</sup> Street. Motorists will detour to Paul Avenue – detour route map is attached.

There will be limited parking on Goulden Avenue. Access will be from 205<sup>th</sup> Street or from Goulden Avenue south of 205<sup>th</sup> Street. At all times sidewalk passage will be maintained for pedestrians.

**Roadway closure begins at 6:00 am on Thursday, June 27th  
Roadway reopens at 10:00 pm on Saturday, August 31<sup>st</sup>**

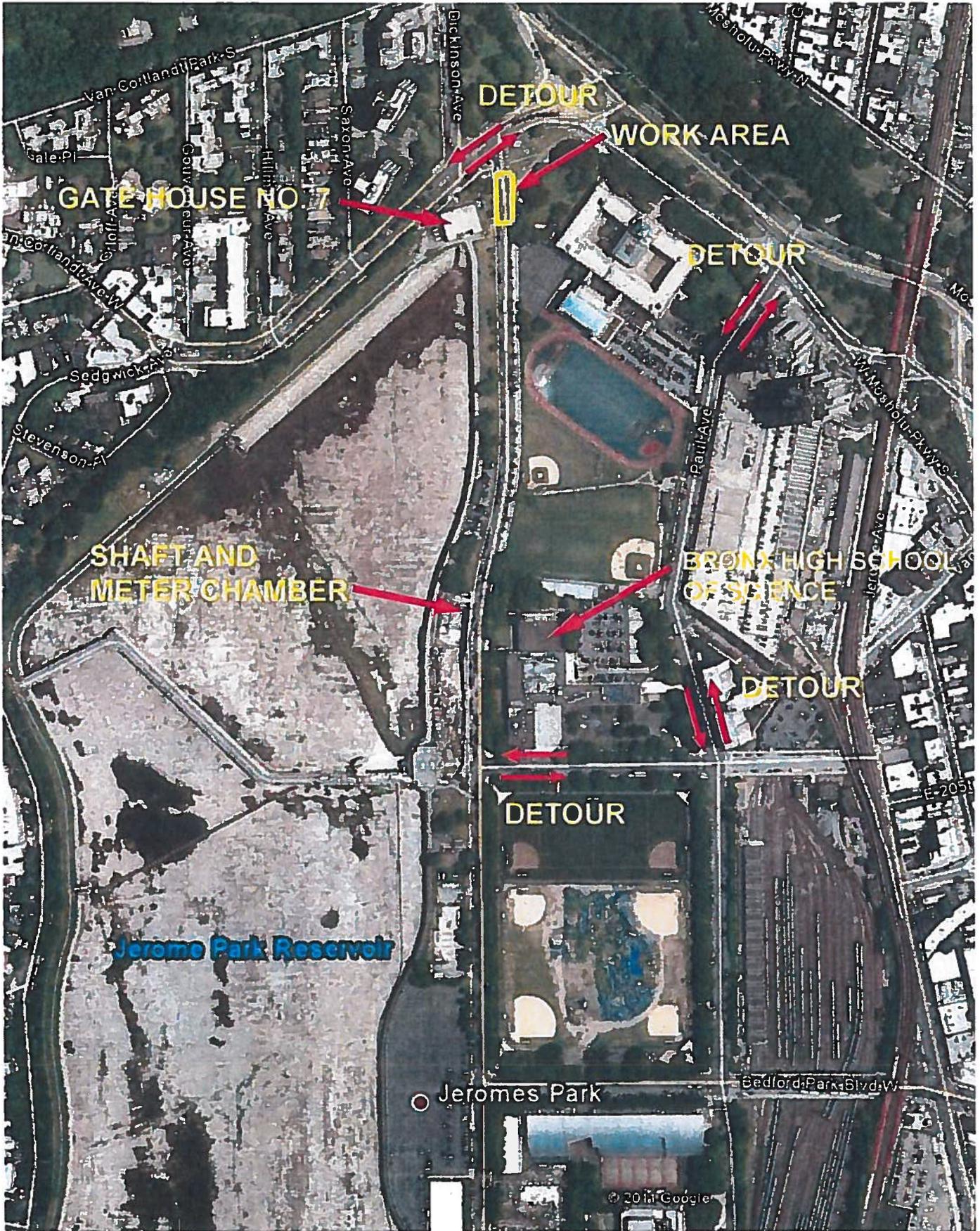
Traffic Control Agents will be in the area to assist motorists and pedestrians  
Signage will be posted at key locations leading to and along the construction route.

**Construction Hours:  
7:00 am to 10:00 pm Monday through Friday  
8:00 am to 9:00 pm Saturday**

**SCHEDULED ROADWAY REOPENING: AUGUST 31, 2013**

### **PLEASE USE CAUTION DURING CONSTRUCTION**

For more information, telephone DEP's Community Hotline  
(718) 231-8470 or call 311 or  
Email: [GouldenAveWaterline@crotoncm.com](mailto:GouldenAveWaterline@crotoncm.com)



**GATE HOUSE NO. 7**

**DETOUR**

**WORK AREA**

**DETOUR**

**SHAFT AND  
METER CHAMBER**

**BRONX HIGH SCHOOL  
OF SCIENCE**

**DETOUR**

**DETOUR**

**Jerome Park Reservoir**

**Jeromes Park**

**Bedford Park Blvd W**