

**NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENGINEERING DESIGN AND CONSTRUCTION
CROTON FACILITY MONITORING COMMITTEE MEETING MINUTES**

TUESDAY, MAY 24, 2011 – 7:00 PM

The Croton Facility Monitoring Committee (CFMC) met on Tuesday, May 24, 2011 at Bronx High School of Science, 75 West 205 Street, Bronx, NY 10468.

Attending - CFMC Representatives:

Father Richard Gorman, Chair, CFMC and Community Board # 12; Hector Aponte, Bronx Borough Commissioner and Frank McCue, Department of Parks & Recreation (DPR); Damian McShane, Chair, and Dan Padernacht, Community Board #8; Wilhelm Ronda, Bronx Borough President's Office; Council Member G. Oliver Koppell and Jamin Sewell, Office of City Council Member Koppell; Mark Lanaghan, Department of Environmental Protection (DEP).

Not Attending – CFMC Representatives:

Paul Foster, Community Board #7

Others Attending

DEP Staff; DEP's Construction Manager; Constance Moran, Bronx Borough Commissioner, NYC Department of Transportation (NYCDOT); and members of the public. Attendees are listed on *Attachment 1*. Agenda is *Attachment 2*.

Fr Gorman called the meeting to order at 7:20 pm.

Adoption of CFMC Meeting Minutes

Fr Gorman asked for and received a motion by Mr. Ronda, seconded by Mr. Sewell, to approve the April 27, 2011 meeting minutes. Minutes were adopted without objection.

NYS Department of Environmental Conservation – Earthen Dam Requirements

Fr Gorman said that DEC was unable to attend the meeting. The agency typically does not attend such meetings, but has agreed to share information about earthen dam requirements. Mr. Lanaghan said Mike Farnan of DEP's Bureau of Water & Sewer Operations (BWSO) works with DEC on DEP compliance with new earthen dam safety regulations. DEP has earthen dams at Central Park, Hillview Reservoir, Silver Lake and Jerome Park Reservoir (JPR) where these regulations apply. DEP is reviewing remedial actions that may be required. For the remediation plan, DEP hired a geotechnical consultant and has involved DPR at JPR because of its walking/jogging path design. Once the plan has been reviewed by DEC, DEP will bring it to the CFMC.

Karen Argenti, Ft. Independence Park Neighborhood Association, criticized delays in bringing the path design to the Public Design Commission (PDC). She asked whether DEP and DPR have adequately coordinated. Messrs. Lanaghan and McCue said DEP and DPR were working to meet the PDC June meeting deadline. Messrs. McCue and McShane said that beginning in December 2010 and after, Community Board #8 and DPR met about design of the walking/jogging path. Community Board #8 said the path is not driving determination of tree removals. From informal discussions with DEC, Messrs. McCue and Lanaghan believe DEC will not require aggressive tree removal. Mr. McShane asked when the tree removal plan will come to the CFMC. Mr. Lanaghan said

DEP would report in the fall and Mr. Farnan of BWSO will likely do the briefing. Elizabeth Thompson, Kingsbridge Heights Neighborhood Improvement Association, urged DEP and DPR to resist any DEC-imposed tree removal. Mr. Lanaghan said that if trees are compromising walls or other physical features of JPR, they must be removed. Fr Gorman said DEC staff told him some trees will need to come down. Mr. Lanaghan said few live trees should need to be removed, although dead trees will. Fr Gorman requested that the report be shared with the CFMC ahead of any tree removal.

Mr. Lanaghan said DEP recognizes that DPR will need funds to restore some of the landscape, and the agencies are working together to identify the funding details.

Construction Update/Look-ahead (Attachment 3)

Bernard Daly, P.E., DEP Croton Project Manager, provided the 90 day look-ahead construction schedule and Croton costs summary.

The CRO-312 contractors are continuing construction at the VCP site. Most of the facility's concrete is placed. Work is continuing to construct the above-ground Arrivals and Receiving Building, Chemical Fill Station and Vent/Stairways. The DEP Police booth will be built following completion of the entrance/exit roadway. DEP has substantially advanced the relocation of First Tee's electric power. An 84" water main on site is nearing completion. It will be capped at Jerome Ave and may be connected to the city distribution system at a later time to provide BWSO with more flexibility and redundancy for water distribution. Electric power is being brought to the plant from Yonkers, and two plant services will be energized in the future. Much of the current construction is in the treatment plant structure, including installation of mechanical, electrical, plumbing and HVAC equipment. Mr. Daly said that there is a large amount of electrical work to complete; the electrical contractor has added a second shift to increase productivity. There is extensive utility work underway, including sewer and drainage piping. Construction of the retaining walls at the entrance to the Croton Filter Plant will resume following completion of utility work.

The CRO-313 tunnel contractor is continuing contract close out.

The CRO-312-OS contractors shortly will be constructing the roof of the Shaft and Meter Chamber at JPR. It should be in place in summer 2011. Asbestos removal is still underway, along with intermittent work at Gate House No 5 and No 7 where existing sluice gates are being refurbished and a series of new sluice gates will be installed. Rehab work inside Gate House No 2 and No 3 is continuing. At JPR, yard piping, which requires rock excavation, will be progressing this summer. As previously reported to the CFMC, rock excavation in yard piping trenches will use blasting; however, it will be conducted under the same conditions used to excavate the Shaft and Meter Chamber: the blasts will be behind the noise wall, after classes. On-site electric work is also taking place. Engineering investigation is continuing inside JPR's basins. No work has occurred under the Force Main contract – Mr. Daly said Lauren Competello would report next on force main evaluation.

CRO-334 rehabilitation at existing shaft locations is ongoing. JPR basins will not be filled until rehabilitation work is completed on the New Croton Aqueduct (NCA), including constructing a concrete plug adjacent to Shaft 21. The work on the plug is scheduled to start in fall 2011 and is expected to be complete in mid-2012.

Mr. Daly described progress on upcoming work in Goulden Ave to provide connections of 48" diameter water mains. First discussed at the March CFMC meeting, Mr. Daly said that substantial community outreach has taken place in April and May. The construction in Goulden Ave outside the Shaft and Meter Chamber will most impact the adjacent Bronx High School of Science. DEP wants to get the noisier construction completed at this site during the school recess in July and August. Noisier work on Goulden Ave includes saw cutting, pile driving excavation and sheeting work. DEP and the contractor are working on ways to minimize community impacts. To expedite the work, either a second shift or shift extended to 10 hours during the summer is expected. Ms. Argenti said she prefers having more people hired to do the work instead of using one crew longer because it will bring more jobs to the project. It is not expected that blasting will be necessary in Goulden Ave. To bring the water main pipe from the Shaft and Meter Chamber to Goulden Ave, the contractor will remove several panels of the noise wall. The contractor has asked to fully close a portion of Goulden Ave between Sedgwick Ave and 205th St. The request is under review at NYCDOT. Meetings with NYCDOT and other stakeholders have been held and all comments are being considered as plans move forward. NYCDOT will make the final decision about roadway construction and issue the necessary permits. DEP has been told by NYCDOT that the agency will only approve a two month full roadway closure of a portion of Goulden Ave with detour to Paul Ave. Richard Barr, Bronx High School of Science Parents Association, read a statement on behalf of Bronx High School of Science. Rene Rotolo, Vice President, Lehman College, said their concern was about parking of private school buses that serve the Bronx High School of Science and the High School of American Studies. Robert Press, Community Board #8, said that the traffic signal at Paul Ave and Mosholu Pkwy is too short. He complained about NYCT buses double parking on 205 St, and of other traffic problems, and called for Traffic Control Agents (TCAs) around the clock. Borough Commissioner Moran said she will see if NYPD believes overnight TCAs are necessary. Mr. Axelbank spoke about traffic at Mosholu Pkwy, Gun Hill Rd and in other 'hot spots' and requested special attention for St. Patrick's Home and Amalgamated Houses in advance of the second excavation. Mr. Axelbank said that residents will be affected by noise. Ms. Argenti said that one northbound lane on Goulden Ave should remain open throughout the construction. She and Mr. Lanaghan spoke about the original water main installation in Goulden Ave many years ago.

Ms. Moran talked about her agency's concerns for pedestrian and motorists' safety and the need for TCAs to participate during peak periods. There were questions from Mr. Press, Al Chapman and Fr Gorman about the truck detour, whether TCAs will be on duty during nighttime hours, and the construction schedule. Ms. Moran explained that NYCDOT will require DEP to reopen one lane of traffic northbound and southbound in September when classes resume. Mr. Daly said that a portion of the west sidewalk on Goulden Ave will be used to provide sufficient lane width, and that pedestrians will be

able to walk on Goulden Ave throughout construction, although they will be directed by a cross walk to the east sidewalk through the construction zone itself. Mr. Koppell said that trucks cannot use Mosholu Pkwy and he asked about the truck detour. Ms. Moran said that OCMC is looking for alternatives. OCMC may allow the use of Mosholu Pkwy for two blocks during the summer. If trucks cannot use Mosholu Pkwy, NYPD enforcement can provide a deterrent. Mr. Koppell suggested two-way traffic on Mosholu Pkwy Service Rd.

Ricky Martinez, State Committeeman, asked where construction equipment will be kept when not in use. Mr. Daly said it will be at the construction site and behind the noise wall.

The second excavation near Gate House No 7 which will take about four months to complete will not occur until 2012. Mr. McShane asked Mr. Daly how many trees would be removed to accommodate the second excavation. Mr. Daly said six or seven trees must be removed prior to this work. Mr. Ronda asked if the trees to be removed are old and Mr. Daly said they are not.

Mr. Koppell summarized that work in both areas of Goulden Ave is necessary and DEP should get work done expeditiously. He added that motorists will find a way around the construction.

M. Argenti asked DEP for technical information on status of construction, such as documents produced for government regulators. Mr. Aponte said meeting minutes often do not go into detail about construction. Mr. Lanaghan suggested that Ms. Argenti put her request in writing to the Chair. DEP will then identify appropriate documentation to respond to her request. Mr. McShane asked Mr. Daly for drawings or diagrams of the Goulden Ave water main work. Messrs. Daly and Lanaghan said that DEP will show diagrams, but that security prevents the documents from being disseminated. Mr. Axelbank suggested that DEP give a public lecture on the water system.

Costs - (Attachment 4)

Mr. Koppell asked why increases in Croton costs have been so significant, in particular, on the Design joint venture contract. Mr. Daly said that Metcalf & Eddy/Hazen and Sawyer JV received a contract in 1992 for design of the Croton Filter Plant at JPR. When it became necessary to investigate additional sites, the decision was made to keep the same designer. Today, Mr. Daly said, DEP might not make the same decision. Mr. Koppell asked if there will be additional costs in the future. Mr. Daly affirmed – under the CRO 312G contract Grimshaw Architects was added for design of above-ground features. Their participation brought additional expense to the project, but the architecture will benefit the community. The bid prices for Croton had to be solicited at a time when the design and construction industries were booming. Mr. Lanaghan said that Commissioner Holloway has made unfunded mandates a major issue. Under Consent Decrees, the Croton Filter Plant and the Ultraviolet Disinfection Plant had to be constructed when construction prices were highest.

Force Main Route

Lauren Competello P.E., BEDC design engineer said that DEP is encouraged by the results of an updated drainage area model that a solution is possible to use the city sewer system instead of building a force main to an interceptor. Current analyses show that disposing of residuals in city sewers is feasible and will not adversely affect combined sewer overflows or water quality. A flow of 0.28 Million Gallons per Day (MGD) of residuals is worst case that will be produced when the Croton Filter Plant is processing 290 MGD. At 150 MGD the Croton Filter Plant processes only 0.12 MGD residuals, which is easily accommodated in the city system. Ms. Competello said she hopes to have additional information in June. Mr. Lanaghan said that when the Delaware Aqueduct is off-line, Croton water will be maximized. Mr. Daly added that during the period of Delaware Aqueduct diversion, Catskill/Delaware water may be directed to the Croton Pumping Station, but it will not be filtered.

Update on Croton Jobs - Attachment 5

At Fr Gorman's request the jobs report was distributed prior to the meeting. Mr. Koppell noted that the percentage of Bronx workers went up slightly, despite that total workforce numbers went down. While the Bronx-based workers' numbers are too low, he said, this is a small positive step.

CFMC Discussion

Wilhelm Ronda said that on May 20, Bronx Borough President Diaz held a press conference with representatives of the CFMC to bring attention to the June 2nd public hearing on access to JPR. He said the public hearing at Amalgamated's Vladeck Hall will hear ideas from the public on more and better public access. He encouraged everyone to attend. Mr. Axelbank asked what the outcome will be. Mr. Ronda said that DEP needs to fulfill its commitment to JPR public access. Mr. Koppell said the current DEP plan is not satisfactory. Mr. Axelbank said he hopes the current DEP Commissioner has an open mind. Mr. Lanaghan said the public access report offered a proposal and that DEP wants to hear from the community – are there more days or different activities that should be reflected in the pilot? He said the DEP Commissioner is flexible about what constitutes the pilot public access plan. There must be a pilot to assess the benefits, risks and costs of any permanent public access program.

Fr Gorman asked whether the DEP and DPR Commissioners would attend the public hearing. Mr. Aponte said he will. Mr. Lanaghan said he will, together with Deputy Commissioners Roberts and McBride. Commissioner Holloway will be out of town.

The CFMC set the next meeting for Thursday, June 30, 2011 at 7 pm at the DEP community office. Fr. Gorman received unanimous agreement and the meeting was adjourned at 9:10 pm.

<u>Name</u>	<u>Organization / Company</u>	<u>Address</u>	<u>Phone</u>	<u>Fax</u>	<u>E-Mail</u>
Thomas Farrell PE	Construction Manager	3701 Jerome Avenue Bronx, NY 10467	(718) 696-2000	(718) 324-3834	thomas.farrell@shawgrp.com
Mark Lanaghan	Department of Environmental Protection	59-17 Junction Boulevard Flushing NY 11368	(718) 595-3519		mianaghan@dep.nyc.gov
Hon. Constance Moran	Borough Commissioner, NYC DOT	1400 Williamsbridge Rd Bronx NY 10461	(212) 748-6680		cmoran@dot.nyc.gov
Jamin Sewell	Office of Council Member Oliver Koppell	3636 Waldo Ave Bronx NY 10463	(718) 549-7300	(718) 798-3879	jsewell@council.nyc.gov
Rene Rotolo	Lehman College	250 Bedford Park Blvd W Bronx NY	(718) 960-8226		rene.rotolo@lehman.cuny.edu
Robert Barnes	DEP Community Office	3660 Jerome Avenue Bronx NY 10467	(718) 231-8470	(718) 231-8857	rbarnes@dep.nyc.gov
Elizabeth Thompson	Kingsbridge Heights Neighborhood Assn	2805 University Avenue New York NY 10027	(718) 884-3864		thompson3864@aol.com
Fr. Richard Gorman	Chairman, Community Board #12	4101 White Plains Road Bronx NY 10466	(718) 881-4455	(718) 231-0635	cb12@optonline.net rgorman@cb.nyc.gov
Frank McCue	NYC Dept of Parks & Recreation	Olmstead Center Flushing NY 11368	(718) 760 6676		frank.mccue@parks.nyc.gov
Martha Holstein	Strategic Urban Solutions	335 Adams Street Brooklyn, NY 11201	(718) 625-1005 x. 223	(718) 625-1032	mholstein@urbansol.com
Bernard Daly, PE	DEP BEDC Project Manager	3701 Jerome Avenue Bronx, NY 10467	(718) 696-2000	(718) 324-3034	Bdaly@dep.nyc.gov
Adam Wisnieski	Riverdale Press	6155 Broadway Bronx NY 10471	(718) 543-6065		awisnieski@riverdalepress.com
Al Chapman	Kingsbridge Heights Neighborhood Assn	2875 Sedgwick Ave Bronx NY	(718) 549-0395		alchapman@aol.com
Hon. Hector Aponte	Borough Commissioner, DPR	1 Bronx River Parkway Bronx NY	(718) 430 1801		hector.aponte@parks.nyc.gov
Richard Barr	Bronx HS of Science Parents Association	203 W 86 Street New York NY 10024	(212) 877-2694		richardbarr@aol.com
Wilhelm Ronda	Bronx Borough President's Office	851 Grand Concourse Bronx NY 10451	(718) 590 8087		wronda@bronxbp.nyc.gov
Gary Axelbank			(718) 960 8707		gaxinthebronx@gmail.com
Robert Press	Bronx News	3800 Independence Avenue Bronx NY	(718) 653 6992		100percentbronxnews@gmail.com

NYC DEP - CROTON FCMC

Page 2 Continued.....

<u>Name</u>	<u>Organization / Company</u>	<u>Address</u>	<u>Phone</u>	<u>Fax</u>	<u>E-Mail</u>
Lauren Compello, PE	BEDC Design, NYCDEP	3701 Jerome Ave. NY 10467	(718) 595-6221	(718) 595-3477	laurenc@dep.nyc.gov
Josh Sager	BEDC Design, NYCDEP	3701 Jerome Ave. NY 10467	(718) 595-3081	(718) 231 8857	jsager@dep.nyc.gov
Damian McShane	Chairman, Community Board #8	5676 Riverdale Avenue Bronx NY 10471	(718) 884-4740	(718) 796-2763	dmcshane@panynj.gov
Hon. G.Oliver Koppell	Council Member	3636 Waldo Avenue Bronx NY	(718) 549-7300	(718) 549-9945	koppello@council.nyc.gov
Karen Argenti	Fort Independence Park Neighborhood Assn	PO Box 346 Bronx NY 10471	(646) 529-1990		KarenArgenti@aol.com
Hon .Ricardo Martinez	District Leader	212 Lisbon Place Bronx NY	(646) 509 7166		c100d@optonline.net
Ilona Linins	Lehman College	250 Bedford Park Blvd W Bronx NY	(718) 960-8988		ilona.linins@lehman.cuny.edu
I-C Levenberg-Engel	Bronx Council on Environmental Quality				IC@BCEQ.org
Dan Padernacht	Community Board #8	5676 Riverdale Avenue Bronx NY 10471	(718) 884-4740		brxcb8@optonline.net

Agenda

Croton Facility Monitoring Committee Meeting

Tuesday, May 24, 2011 – 7:00 PM

Bronx High School of Science – 75 West 205th Street, Bronx NY 10468, Room 131

- | | |
|--|--|
| I Welcome | Father Richard Gorman, Chair |
| II Consider, Adopt 4/27/11 Meeting Minutes | CFMC Representatives |
| III Presentation about Earthen Dam Safety | NYS Dept of Environmental Conservation |
| IV Construction Update, Schedule & Costs
Status of Construction in Goulden Ave | Bernard Daly, P.E., DEP |
| V Comments about Goulden Ave Construction | Attendees |
| VI Status of Force Main Design | Lauren Competello, P.E., DEP |
| VII Current Report - Croton Jobs | Mark Lanaghan, DEP |
| VIII Continued Discussion, Public Access to JPR
- Plans for June 2, 2011 Public Hearing | CFMC Representatives |
| IX CFMC Discussion, Set Next Meeting | CFMC Representatives |
| X Adjourn | |

WM-11 Croton Water Treatment Plant
Cost Summary as of 4/30/2011

Croton WTP Construction Costs						
Contract	Contractor Name	Original Contract Price	Registered Change Orders	Current Contract Amount	% Contract Increase	
CRO-311	Schiavone Construction Co.	\$127,660,000	-\$14,445,214	\$113,214,786	-11%	
CRO-312G	Skanska/Tully, JV	\$1,327,700,000	\$92,172,151	\$1,419,872,151	7%	
CRO-312E1	Schlesinger-Siemens, LLC	\$134,680,000	\$7,986,636	\$142,666,636	6%	
CRO-312E2	Schlesinger-Siemens, LLC	\$37,678,000	\$6,537,799	\$44,215,799	17%	
CRO-312H	Durr Mechanical Construction	\$105,700,000	\$12,274,628	\$117,974,628	12%	
CRO-312P	Picone/WDF, JV	\$58,475,000	\$10,349,081	\$68,824,081	18%	
CRO-312OS-G	Picone-Schiavone, JV	\$96,842,500	\$17,459,758	\$114,302,258	18%	
CRO-312OS-E	Eldor Electric	\$15,762,500	\$932,871	\$16,695,371	6%	
CRO-312OSH	AWL Industries	\$822,000	\$12,901	\$834,901	2%	
CRO-312OS-P	JPP Plumbing	\$872,000	\$155,165	\$1,027,165	18%	
CRO-312FM (1)	Maspeth Supply Co. LLC	\$18,626,745	\$12,519,525	\$31,146,270	67%	
CRO-313	Schiavone/Picone, JV	\$212,227,000	\$1,998,084	\$214,225,084	1%	
CRO-315G	Angelakis Construction Corp.	\$3,641,000	\$14,894	\$3,655,894	0%	
CRO-315E	Interphase Electric	\$807,317	\$145,800	\$953,117	18%	
CRO-312CE	Con Edison	\$4,074,526	\$0	\$4,074,526	0%	
TOTAL		\$2,145,568,588	\$148,114,076	\$2,293,682,664	7%	
Croton WTP Design / Construction Management Costs						
HED-543 DES	Metcalf & Eddy / Hazen and Sawyer, JV	\$44,226,000	\$222,182,648	\$266,408,648	502%	
HED-545 CM	URS/Malcolm Pirnie, JV	\$63,400,000	\$32,936,305	\$96,336,305	52%	
TOTAL		\$107,626,000	\$255,118,953	\$362,744,953	237%	

Rehabilitation of the New Croton Aqueduct Construction Costs						
Contract	Contractor Name	Original Contract Price	Registered Change Orders	Current Contract Amount	% Contract Increase	
CRO-334G	Frontier-Kemper/Schiavone/Picone JV	\$91,696,805	\$8,542,112	\$100,238,917	9%	
CRO-334E	Community Electric	\$1,119,000	\$247,275	\$1,366,275	22%	
TOTAL		\$92,815,805	\$8,789,387	\$101,605,192	9%	
Rehabilitation of the New Croton Aqueduct Construction Management Costs (2)						
TCM-CRO-334	Washington/HAKS JV	\$5,952,446	\$0	\$5,952,446	0%	
TOTAL		\$5,952,446	\$0	\$5,952,446	0%	

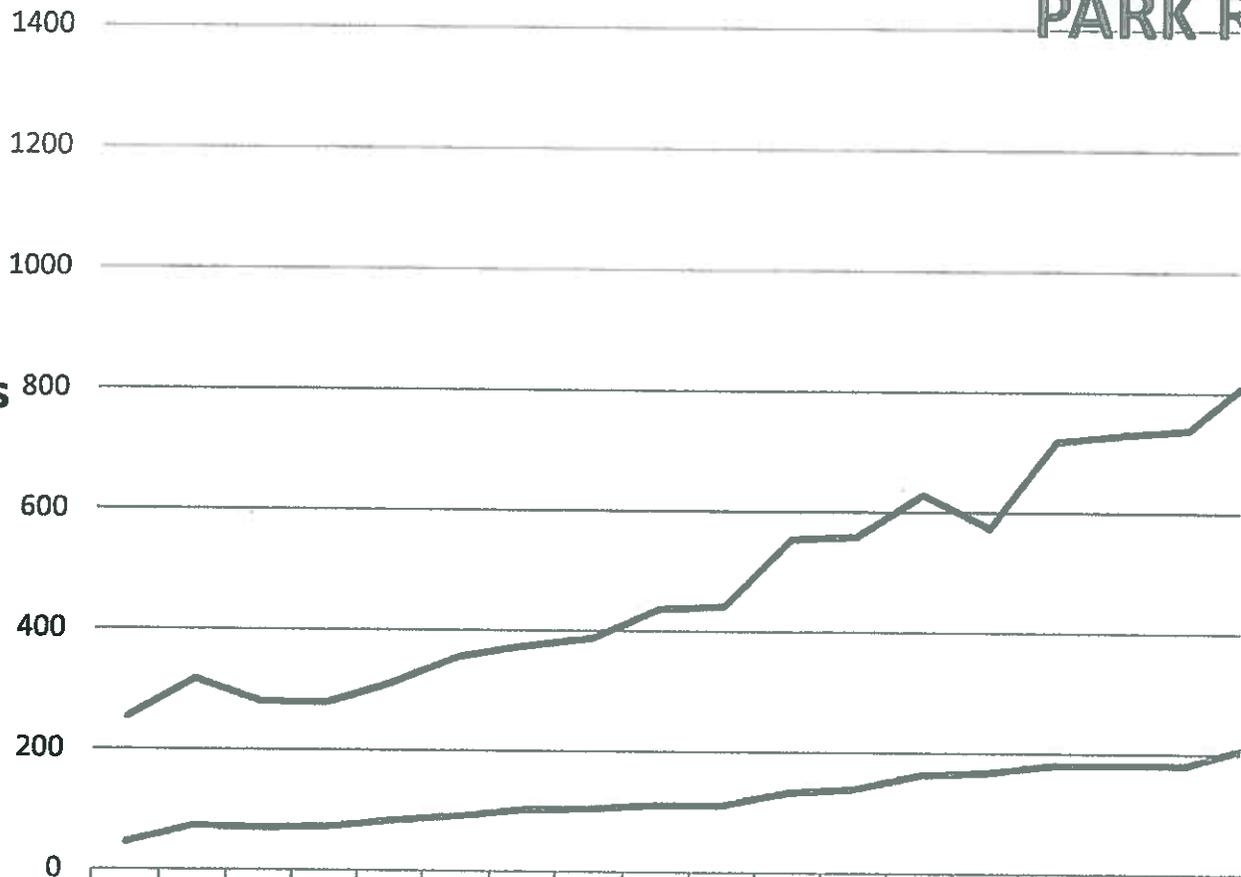
Notes:

(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.

CROTON WATER TREATMENT PLAN PARK F

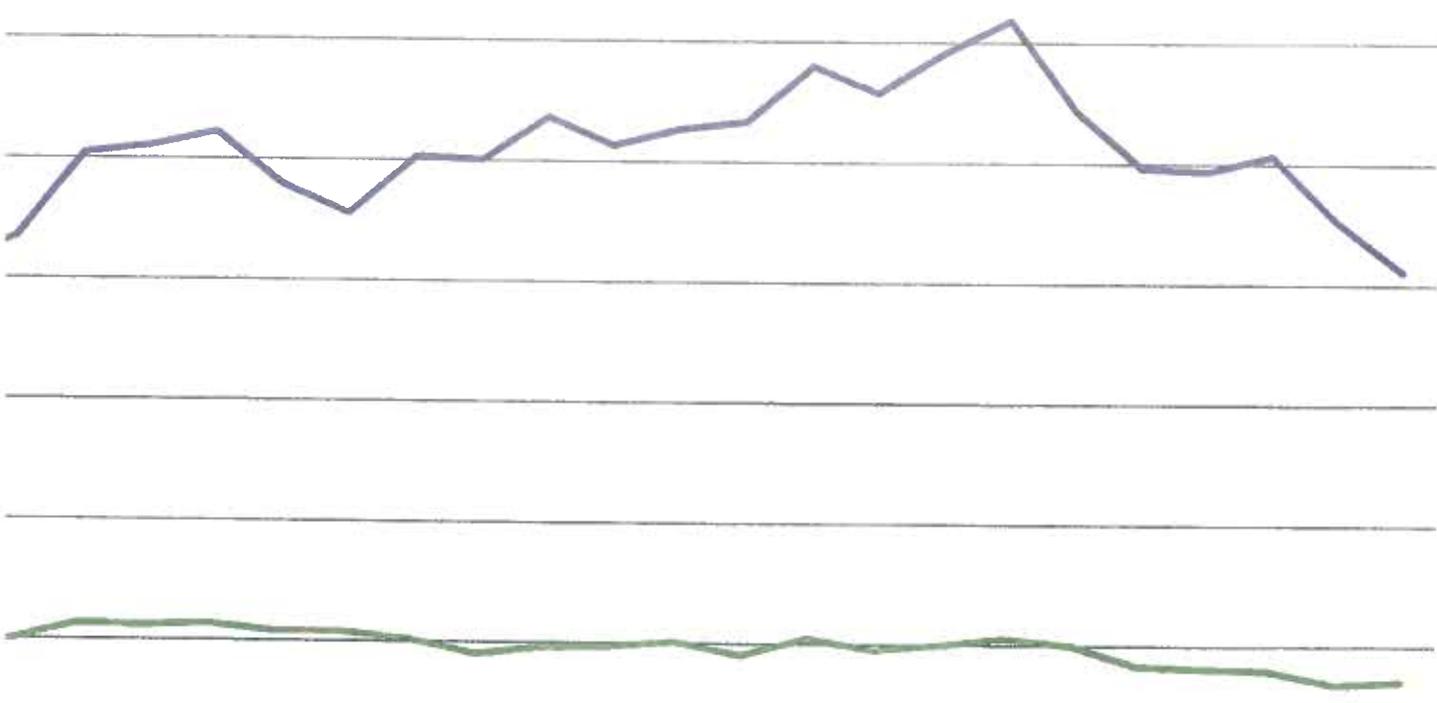
**Average #
of Workers
Per Day**



	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09
— Bronx Workers	46	73	70	72	83	91	102	104	110	111	133	139	163	168	180	181	181	200
— Total Workers	254	317	280	278	312	356	374	387	436	441	553	558	629	573	718	730	738	780
Bronx Workers %	18%	23%	25%	26%	27%	26%	27%	27%	25%	25%	24%	25%	26%	29%	25%	25%	25%	26%

Total Average Overall= 21%

AND OFFSITE FACILITIES AT JEROME SERVOIR



Month	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	April-11
Value	227	224	228	216	216	204	181	193	195	203	181	210	191	200	211	200	166	162	159	137	142
Value	1009	1021	1045	959	912	1007	1001	1073	1027	1054	1067	1160	1115	1182	1237	1088	994	988	1014	906	822
%	22%	22%	22%	23%	24%	20%	18%	18%	19%	19%	17%	18%	17%	17%	17%	18%	17%	16%	16%	15%	17%