

**NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENGINEERING DESIGN AND CONSTRUCTION
CROTON FACILITY MONITORING COMMITTEE MEETING MINUTES
THURSDAY, FEBRUARY 17, 2011 – 7:00 PM**

The Croton Facility Monitoring Committee (CFMC) met on Thursday, February 17, 2011 at the DEP Community Office, 3660 Jerome Avenue, Bronx, NY 10467.

Attending - CFMC Representatives:

Father Richard Gorman, Chair, CFMC and Community Board # 12; Hector Aponte, Bronx Commissioner, Department of Parks & Recreation (DPR); Wilhelm Ronda, Bronx Borough President's Office; Jamin Sewell, office of City Council Member G. Oliver Koppell; Mary Pazan, Department of Environmental Protection (DEP). Present were staff of DEP, DEP's construction manager, and members of the public. Attendees are shown on *Attachment 1*. The agenda is *Attachment 2*.

Welcome

Fr Gorman called the meeting to order at 7:15 pm. He welcomed the public, and his FMC colleagues, and said he values being CFMC Chair. He said the Croton Filter Project has significant implications for the North Bronx, adding that while costs have increased for Croton, the city is proposing to cut fire houses and teachers. Between CFMC meetings, Fr Gorman said he plans discussions and to share information, particularly with the other Community Board representatives so that CFMC will be prepared to advance their issues at FMC meetings. He said he hopes the CFMC will make several positive achievements this year.

Fr Gorman requested that a separate discussion of the Croton Filter Plant force main route be added to the February agenda. The CFMC agreed.

Adoption of CFMC Meeting Minutes

Fr Gorman requested a motion to approve January's meeting minutes provided CFMC representatives had reviewed them. Mr. Aponte requested a correction regarding Harris Fields – that while a large amount of ash was found at the site, not all of it was removed nor was it required to be removed. With that correction, Mr. Ronda made a motion to adopt the minutes. Mr. Sewell seconded it. The minutes were adopted.

Discussion of DEP's M/WBE Program

Mary Pazan, DEP's Assistant Commissioner and Agency Chief Contracting Officer (ACCO), described DEP's M/WBE program and its place under state and city law. The presentation had been requested by the CFMC. (*Attachment 3*.)

After her presentation, in response to questions, Ms. Pazan said that if a contractor's submitted Croton M/WBE plan is not approved by NYS Empire State Development Corporation (ESDC), as the NYS Environmental Facilities Corporation provides state revolving loan funds for Croton, the DEP could ultimately hold back payments. Quarterly reports must be submitted to DEP by the contractors. Not only is non-

compliance with M/WBE requirements investigated and default possible, but future contracts may also be denied to the contractor if the failure is significant. Assembly Member Jeff Dinowitz said that since Schiavone pled guilty to fraud, the company should not be awarded future contracts. Karen Argenti, Ft. Independence Park Neighborhood Association, asked what incentive a contractor has to comply. Ms. Pazan said that Vendex requires extensive reporting and generally governs whether a firm is awarded a contract. DEP's staff assists companies that need help to meet M/WBE goals and conform to the law. Richard, Barr, Bronx High School of Science Parents Association said the Croton project experienced cost overruns and problems. He spoke of President Reagan's Labor Secretary Donovan, one of the previous owners of the Schiavone Company, and questioned why Schiavone received over \$3 billion worth of government contracts. Brendon McHugh, Bronx Press Review, asked if DEP has changed its internal policies since Schiavone's fraud charge. Ms. Pazan said that all construction subcontractors are scrutinized and their payments are checked; this is a standing procedure, not new procedure. Ms. Pazan added that the ESDC certification process for and its list of M/WBEs governs the program. She clarified that the contractor chooses his/her subcontractors, not DEP. Mr. Ronda asked for a link to the ESDC certified subcontractors. He also requested a list of M/WBE subcontractors that are currently or have previously worked at Croton. He said that the problems with Schiavone inhibited Bronx County from meeting its M/WBE goals on Bronx construction projects. Ms. Pazan said that there are 73 subcontracted companies on the certified list. Of these, only six companies are union businesses with revenues of over \$500,000. Two of these companies are subcontractors at Croton. One company which lays carpet and another that builds structural steel are not working at Croton (note that there is no carpet work and minimal structural steel work at the site). She added that there is a pool of contractors in NYC who are certified by NYC as M/WBEs and also want to work on public projects. The overall pool consists of 300 – 800 companies, most of which are generally too small to qualify for a subcontract at Croton. Ms. Argenti said the community believed from the start that Croton would not help the economy of the Bronx. Anne Marie Garti, Jerome Park Conservancy, said that perhaps DEP should hire people who understand how fraud is committed to check for it.

Construction Update/Look-ahead (*Attachment 4*) and **Costs** (*Attachment 5*)

Bernard Daly, P.E., DEP Croton Project Manager, spoke about the 90 day look-ahead construction schedule and the status of the Croton contracts and costs.

The CRO-312 contractors are continuing construction activities at the Van Cortlandt Park (VCP) site. Most of the concrete has been placed. Work has continued on constructing the above-ground Arrivals and Receiving Building, Chemical Fill Station and above-ground vent/stairway structures. The DEP Police booth will be built after roadway completion. As he has previously reported, Mr. Daly said that most of the construction work is taking place inside the treatment plant structure, including installation of mechanical, electrical, plumbing and HVAC work. There is extensive utility work underway, including sewer, electric, and force main piping. The construction of the retaining walls at the entrance to the Croton Filter Plant will re-start after utility

relocation. Mr. Daly said that the facility's electrical work is extensive and behind schedule.

The CRO-313 tunnel contractor has completed work on the Raw Water and Treated Water Shafts at the VCP site. The NYS Department of Health visited the Croton Filter Plant site to inspect all the tunnels built under this contract on February 11, 2011. Mr. Daly said that Contract CRO-313 will be completed shortly.

The CRO-312-OS contractors are building the Shaft and Meter Chamber at Jerome Park Reservoir (JPR), installing large diameter piping and placing concrete. Intermittent work continues on improvements inside Gate House No 5 and No 7. At the South Basin, most of the concrete for the new ramp was completed before the on-set of cold weather, and the stone work must wait for warmer weather. Engineer investigation work continues at JPR, including drilling holes in the walls of the reservoir. DEP's Asbestos Task Force continues to remove asbestos from the Microstrainer Building near Gate House No. 6. Mr. Daly said that upcoming work necessary in Goulden Avenue to provide connections of large water mains will begin this summer if possible. This street work will continue for up to eight months. The activity will have impacts, as it is outside Bronx High School of Science and there is no noise wall. Mr. Daly said that not all of this work will be noisy. DEP and the contractor have commenced discussions about minimizing disruption to the school and the community. DEP plans to conduct as much of this work as possible over the 2011 summer months while school is not in session but it is expected that street water main work will occur when school is in session because of the duration of this work

Ms. Garti said that the look-ahead schedule goes through 2013. She asked if Shaft and Meter Chamber work must be complete for the plant to commence operations. Mr. Daly said that the Shaft and Meter Chamber construction will be completed before starting plant operations. Ms. Argenti asked whether water has to be in JPR basins when the plant commences operation. Mr. Daly said that water will be in JPR basins by November 2013; however, it will not be directed into distribution until the filtration process has been approved by NYS and NYC Departments of Health. Also, JPR basins will not be filled until rehabilitation work has been completed on the New Croton Aqueduct (NCA) under Contract CRO-334, including constructing a concrete plug adjacent to Shaft 21, starting in late 2011 and continuing until mid-2012.

Mr. Daly presented the breakdown of costs. Ms. Garti asked for a list of the Hazen and Sawyer/Metcalf & Eddy JV registered design change orders in addition to the construction change orders. Mr. Daly said this list could be provided. Also, Mr. Daly said that the NCA rehabilitation contract is not included in the cost breakdown for Croton Filter Plant provided at this meeting, as the work was required whether the plant was built or not. He said that the approximately \$14 million for renovation of the existing golf course, Temporary Clubhouse, Maintenance Facility and First Tee's lost revenues are not reflected on his chart. He said that the Parks mitigation money is also not on the list. Ms. Argenti said the public should be able to see all construction, design and parks costs. Fr Gorman requested and Mr. Daly agreed to provide his monthly construction, design and

CM costs to the FMC following DEP's Croton Issues and Tasks Meetings. Assembly Member Dinowitz requested DEP design documents that were prepared to build the Croton Filter Plant at Eastview.

Force Main Design Route

Lauren Competello, BEDC Design engineer, who is overseeing development of the force main route, explained that the CRO 312-FM contractor is not presently working. DEP is considering several shorter alternate routes instead of proceeding with the original route. Ms. Competello explained the NYC sewer system's early history and development, with sanitary sewage and street run-off conveyed in a single pipe. She spoke of the city's continuing efforts to reduce combined sewer overflow runoff, with an emphasis currently on maximizing beneficial reuse for stormwater instead of discharging it or bringing it to a sewage treatment facility. For the force main, a DEP goal is to direct Croton residuals to a large interceptor that will carry the residuals flow from Croton to the Wards Island water pollution control plant. Ms. Competello said there are three primary alternate force main routes under study. Mr. Ronda said he understood that one of the alternate force main locations goes under Sedgwick Ave. Ms. Competello said that, indeed, one of the routes being looked at uses Sedgwick Ave. However, no decision has been made about that route or others at this time. Once there is more research and information about routes, DEP will brief the FMC and the community and seek input. There was a discussion between Ms. Argenti and Ms. Competello about maximum daily flow, and sewage treatment and interceptor capacity. Mr. Daly and Ms. Competello explained that the Wards Island Waste Water Treatment Plant has the capacity to treat 275 million gallons of sewage a day (MGD) in dry weather and handles up to 550 MGD in wet weather. Current daily flow is approximately 210 MGD, easily accommodating the residuals from the Croton Filter Plant, which is a maximum of 0.4 MGD. The interceptor to which DEP seeks to connect is at least 5' in diameter and larger in many sections. Ms. Argenti asked if the alternate route will be constructed by Maspeth Supply. Mr. Daly said this has not been determined. There was a suggestion to Ms. Competello by Ms. Garti to use the Putnam Greenway to guide the force main. Assembly Member Dinowitz said that parts of Sedgwick Avenue are too narrow for construction. Fr Gorman said virtually all routes, including Sedgwick Avenue, would be disruptive to traffic and residents. Fr Gorman urged DEP to consult with the Community Boards and Borough President on the alternate force main route, and not to plan this project without community input. He said any force main route proposal must be thoroughly vetted by the community; otherwise, he said, DEP will face a community uproar. There was a discussion among Mr. McHugh, Mr. Daly and Ms. Competello about costs of the force main. Mr. Daly again said that with any force main routes DEP could face underground contaminated soils and utility pipes from other utility providers.

Mr. Barr asked for and received an update on Harris Field. Mr. Aponte said that the remaining fields should be ready for the public by spring or summer 2011.

Update on Croton Jobs

Thomas Farrell, Croton Construction Manager, presented the current jobs report – *Attachment 6*. He said that the major contractor, Skanska, maintained its percentage of

Bronx workers, despite another small reduction in the overall number of persons working on site. He said that DEP considers Bronx goods and services a continuing priority, and contractors are regularly reminded to buy services, equipment and supplies from Bronx businesses when possible.

CFMC Discussion

Fr Gorman said he will ask for a conference call with DEP Commissioner Holloway to get the JPR public access report released to the FMC. He also wants to tell the Commissioner that the force main must be planned and designed with community input, and cannot be presented to the community as a *fait accompli*.

The CFMC set the next meeting for Thursday, March 31st at 7 pm.

Fr. Gorman sought and received unanimous agreement to adjourn. The meeting adjourned at 9:05 pm.

<u>Name</u>	<u>Organization / Company</u>	<u>Address</u>	<u>Phone</u>	<u>Fax</u>	<u>E-Mail</u>
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Wilhelm Ronda	Bronx Borough President's Office	851 Grand Concourse Bronx NY 10451	(718) 590-8087		wronda@bronxbp.nyc.gov
Claudia C. Powell	Community Board #12	735 E 242nd Street Bronx NY 10470	(917)548 2515		cla1034465@aol.com
Mary Carroll	Mutual Houses	3850 Sedgwick Ave Bronx NY 10463	(347) 275 7333		mcarroll2u@optonline.net
Hector Aponte	NYC Dept of Parks & Recreation	1 Bronx River Parkway Bronx NY	(718) 430-1801	(718) 430-1818	hector.aponte@parks.nyc.gov
Martha Holstein	Strategic Urban Solutions, Inc.	335 Adams Street Brooklyn, NY 11201	(718) 625-1005 x. 223	(718) 625-1032	mholstein@urbansol.com
Bernard Daly	DEP BEDC Project Manager	3701 Jerome Avenue Bronx, NY 10467	(718) 696-2000	(718) 324 3034	bdaly@dep.nyc.gov
Michele Lignore-Diaz	NYC Dept of Parks & Recreation	1 Bronx River Parkway Bronx NY	(718) 430-4617		michele.lignore-diaz@parks.nyc.gov
Robert Barnes	DEP Community Outreach Office - Croton	3660 Jerome Avenue Bronx, NY 10467	(718) 231-8470	(718) 231-8857	rbarnes@dep.nyc.gov
Thomas Farrell	Construction Manager URS/Malcolm Pirmie	3701 Jerome Avenue Bronx, NY 10467	(718) 696-2000	(718) 324-3034	thomas.farrell@shawgrp.com
Bill Carroll	Mutual Houses	3850 Sedgwick Avenue Bronx NY 10463	(347) 275 3333		cousinpeach@optonline.net
Hon. Jeffrey Dinowitz	New York State Assembly Member	3107 Kingsbridge Avenue Bronx NY	(718) 796 5345	(718) 796 0694	dinowitz@assembly.nys.us.gov
Damian McShane	Chairman, Community Board #8	5676 Riverdale Ave Bronx NY 10471	(718) 884 3959		dmcshane@panynj.gov
Lauren Competello	DEP BEDC	96-05 Horace Harding Exp Flushing NY	(718) 595-6221		laurenc@dep.nyc.gov

<u>Name</u>	<u>Organization /</u>	<u>Address</u>	<u>Phone</u>	<u>Fax</u>	<u>E-Mail</u>
Jamin Sewell	Office of Council Member Konnell	3636 Waldo Avenue Bronx NY 10463	(718) 549 7300	(718) 549-9945	jsewell@council.nyc.gov
Ed Neisch	Construction Manager Lehman College	3701 Jerome Avenue Bronx NY 10467	(718) 696-2000	(718) 324-3034	eneisch@pirnie.com
Ilona Linins		250 Bedford Pk Blvd West Bronx NY	(718) 960-8988		ilona.linins@lehman.cuny.edu
Adam Wisnieski	Riverdale Press	6155 Broadway Bronx NY	(718) 543 6065		awisnieski@riverdalepress.com
Father Richard Gorman	Community Board #12	4101 White Plains Road Bronx NY 10466	(646) 284 4973		rgorman@cb.nyc.gov
Frank McCue	NYC Dept of Parks & Recreation	Olmstead Center Flushing NY 11368	(718) 760-6676		frank.mccue@parks.nyc.gov
Richard Barr	Bronx HS of Science Parents Association	203 West 86 Street New York NY 10024	(212) 877 2694		richardedbarr@aol.com
Mary Pazan	DEP Agency Chief Contracting Officer	59-17 Junction Blvd. Flushing NY 11368	(718) 595 3925		mpazan@dep.nyc.gov
Jane Sokolow	Bronx Council on Environmental Quality	2 Spaulding Lane Bronx NY 10471	(718) 548 8090		jsbx101@gmail.com
Tom McNeil	Office of Assembly Member Dinowitz	3107 Kingsbridge Avenue Bronx NY	(718) 796 5345	(718) 796 0694	thomas0330@hotmail.com
Anne Marie Garti	Jerome Park Conservancy	3967 Sedgwick Avenue Bronx NY	(718) 601 1322		

Agenda
Croton Facility Monitoring Committee Meeting
Thursday, February 17, 2011 – 7:00 PM
DEP Community Office, 3660 Jerome Avenue, Bronx NY 10467

- | | |
|--|---------------------------------|
| I Welcome | Father Richard Gorman, Chairman |
| II Comments by Fr. Gorman about 2011
CFMC goals | Fr Gorman |
| III Consider, Adopt 1/20/11 Meeting Minutes | CFMC Representatives |
| IV Report on DEP's M/WBE Program | Mary Pazan, DEP |
| V Construction Update, Schedule & Costs | Bernard Daly, P.E., DEP |
| VI Current Report - Croton Jobs | Mark Lanaghan, DEP |
| VII CFMC Discussion, Set Next Meeting | CFMC Representatives |
| VIII Adjourn | |



Minority and Women Business Enterprise Programs

Croton Facility Monitoring Committee

2/17/2011

Local Law 129

- ❖ City certified list
- ❖ Prime contractor
- ❖ Subcontractor targets and goals
- ❖ Subcontracts valued at less than \$ 1 Million
- ❖ Citywide subcontracting goals by contract type:
 - Construction: Black American (12.63%), Asian American (9.47%),
Hispanic American (9.06%), Caucasian Female (No Goal)
 - Total: 31.16%
 - Professional Services: Black American (9%), Asian American (No Goal),
Hispanic American (5%), Caucasian Female (16.5%)
 - Total: 30.5% overall

Executive Law 15(A)

- ❖ Applies to Croton
- ❖ State certified list
- ❖ Good faith effort
- ❖ No limit to subcontractor value (first and second tier)
- ❖ Suppliers (up to 25% of respective goals)

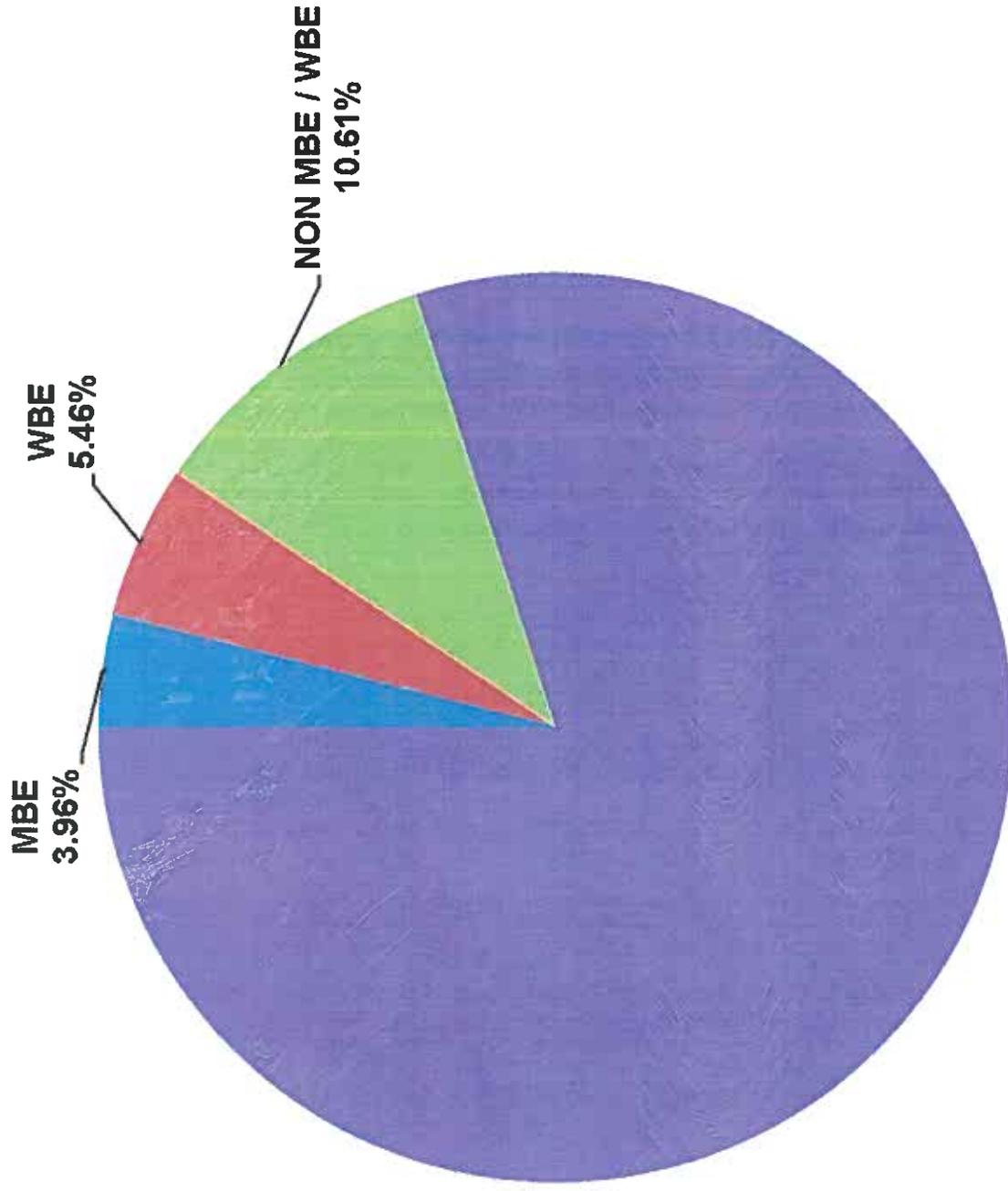
Requirements Can Change:

	MBE	WBE
Croton Bids	17%	5%
FY 2010	21.5%	13.7%
Current	14.34%	8.41%

Croton Progress as of (2/7/11)

14 Contracts

Total Value: \$2.3 Billion



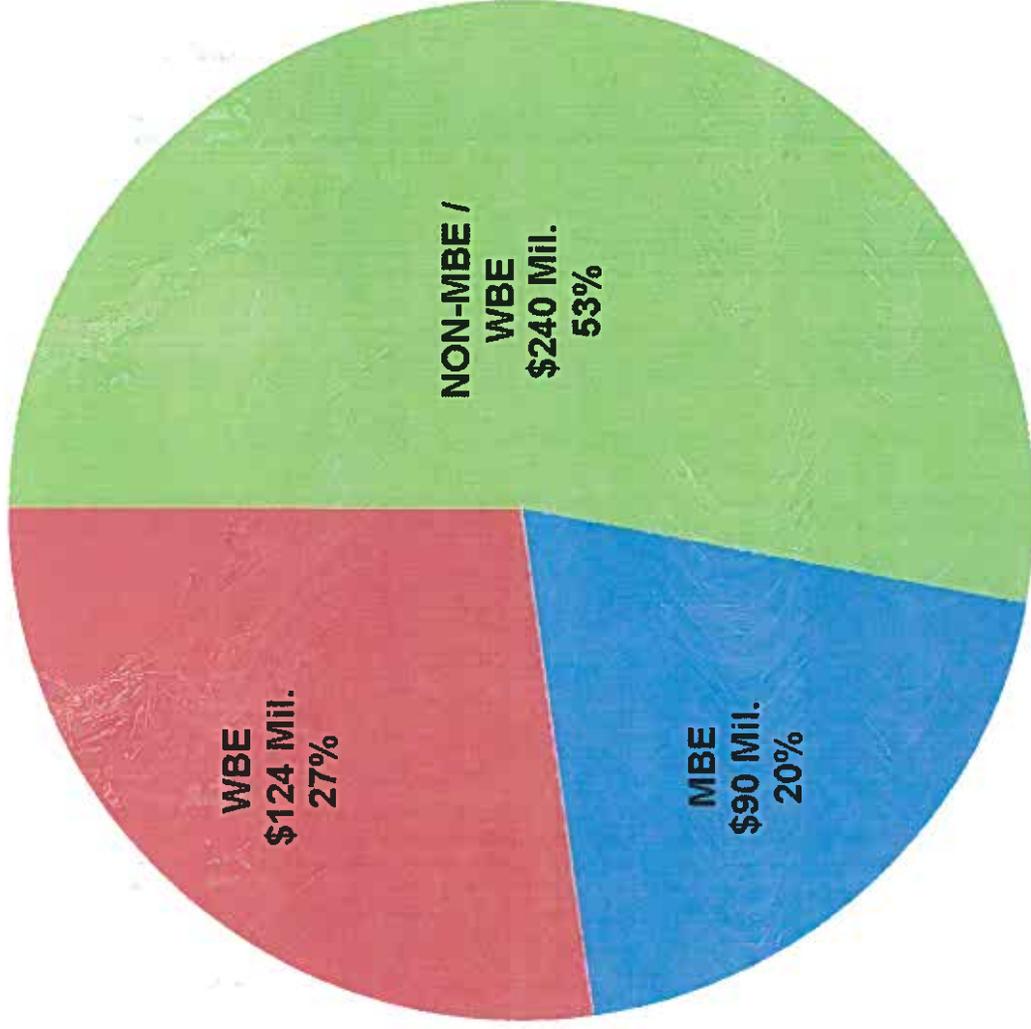
Subs/Suppliers	In Millions
MBE	\$90
WBE	\$124
NON MBE /WBE	\$240
TOTAL	\$454

Sub/Suppliers Total 20% of Work

Total Value: \$454 Million

47% MWBE Participation

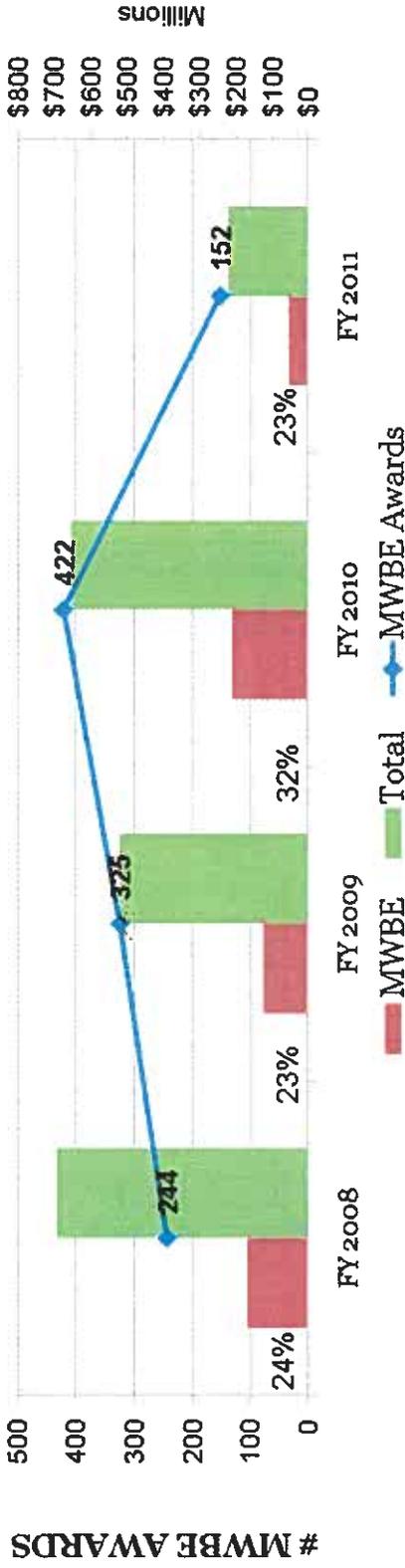
Subs/Suppliers	In Millions
MBE	\$90
WBE	\$124
NON MBE /WRF	\$240



Subcontractors Approved All DEP Projects



MWBE Subcontracts



Approval Process

- ❖ Submission of utilization plan within 10 days of award
- ❖ Agency reviews plan
- ❖ Plan submitted to Environmental Facilities Corporation (EFC) for approval
- ❖ Plan revisions approved by EFC

Compliance

- ❖ If UP or waiver not received prior to payment #1, payment may be withheld
- ❖ Field supervision
- ❖ Compare UP with subsequent request for subcontractor approval
- ❖ Request for signed subcontract agreement or purchase order
- ❖ Quarterly reports on subcontractor payments (MBE/WBE)
- ❖ Proof of payments
- ❖ Rejections

Failure to Comply

- ❖ Disapprove submission
- ❖ Provide assistance
- ❖ Fraud, corruption – investigatory agencies
- ❖ Default – opportunity to be heard
- ❖ Non-responsible/non-responsive on future contracts
- ❖ Penalties:
 - Liquidated damages
 - Actual damages – costs for MWBE program
 - Bar from future awards for 1 or 5 years
 - Prosecution

WM-11 Croton Water Treatment Plant
 Facility Monitoring Committee
Look-Ahead Schedule
 February 17, 2011

Task	Current Forecasted Completion Date	Feb-11				Mar-11				Apr-11				May-11				Jun-11	
		WK 3	WK 4	WK 1	WK 2	WK 3	WK 4	WK 1	WK 2	WK 3	WK 4	WK 1	WK 2	WK 3	WK 4	WK 1	WK 2		
CRO-312 - Water Treatment Plant Construction at Moshulu Site																			
Placement of Structural Concrete for DEP Above Grade Structures	4/15/2011																		
Utility Work in Jerome Avenue (Intermittent)	8/17/2011																		
Entrance Driveway and Site Utility Work (Intermittent)	9/1/2011																		
Furnish and Install Equipment, Electrical, HVAC and Plumbing Work for Water Treatment Plant	11/29/2012																		
CRO-312OS - Off-Site Facilities at Jerome Park Reservoir and Gate House No. 1																			
Shaft and Meter Chamber & Yard Piping at Jerome Park Reservoir (including Emergency Bypass)	11/30/2013																		
Rehabilitation Work in Gate House Nos. 1, 2, 3, 5, 6 & 7 (Intermittent)	11/30/2013																		
South Basin Ramp Concrete Work at Jerome Park Reservoir	4/30/2011																		
South Basin Ramp Stone Work at Jerome Park Reservoir	6/30/2011																		
Core Drilling at South Basin for Jerome Park Reservoir Inspection Program	3/31/2011																		
Asbestos Abatement Work at Microtrainer Building (Asbestos Task Force Contractor)	2/28/2011																		
Asbestos Abatement Work at Other Gate Houses (Asbestos Task Force Contractor)	4/30/2011																		
CRO-312FM - Residuals Force Main to Hunts Point																			
Force Main from WTP to Hunts Point WPCC in Bronx Streets	TBD																		
CRO-313 - Water Tunnels and Associated Works																			
Complete Tunnels and Shafts	2/25/2011																		
Begin Startup and Testing of Water Treatment Plant	11/29/2012																		
Commence Operation of Water Treatment Plant	6/4/2013																		
Above Grade Architectural Work at DEP Area	12/14/2014																		

Croton Water Treatment Plant: Costs as of January 31, 2011

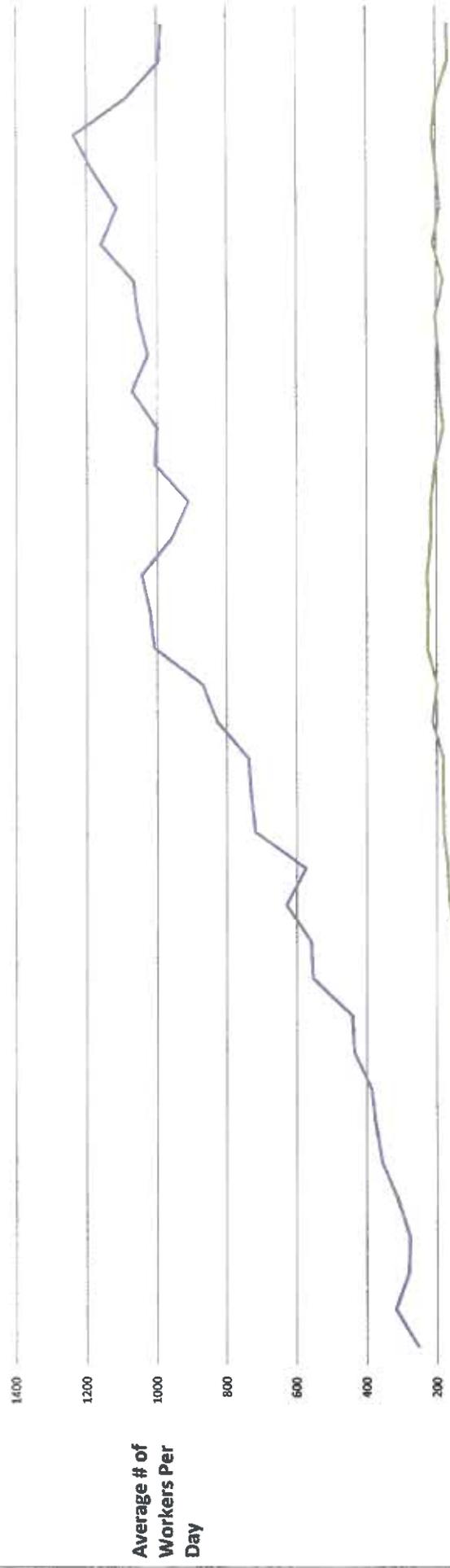


Construction Costs						
Contract	Contractor Name	Original Contract Price	Registered Change Orders	Current Contract Amount	% Contract Increase	
CRO-311	Schiavone Construction Co.	\$127,660,000	-\$14,445,214	\$113,214,786	-11%	
CRO-312G	Skanska/Tully, JV	\$1,327,700,000	\$68,189,271	\$1,395,889,271	5%	
CRO-312E1	Schlesinger-Siemens, LLC	\$134,680,000	\$7,648,291	\$142,328,291	6%	
CRO-312E2	Schlesinger-Siemens, LLC	\$37,678,000	\$6,537,799	\$44,215,799	17%	
CRO-312H	Durr Mechanical Construction	\$105,700,000	\$14,377,680	\$120,077,680	14%	
CRO-312P	Picone/WDF, JV	\$58,475,000	\$10,385,559	\$68,860,559	18%	
CRO-312OS-G	Picone-Schiavone, JV	\$96,842,500	\$15,333,915	\$112,176,415	16%	
CRO-312OS-E	Eldor Electric	\$15,762,500	\$932,871	\$16,695,371	6%	
CRO-312OS-H	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	\$12,406,597	\$31,033,342	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	\$123,693,612	\$2,269,262,200	6%	
Design / Construction Management Costs						
Contract	Consultant Name	Original Contract Price	Registered Change Orders	Current Contract Amount	% Contract Increase	
HED-543 DES	Metcalf & Eddy / Hazen and Sawyer, JV	\$44,226,000	\$213,731,648	\$257,957,648	483%	
HED-545 CM	URS/Malcolm Pirnie, JV	\$63,400,000	\$32,936,305	\$96,336,305	52%	
TOTAL		\$107,626,000	\$246,667,953	\$354,293,953	229%	

Notes:

(1) – CRO-312FM costs are based on original Force Main Route to the Hunts Point WPCP

CROTON WATER TREATMENT PLANT AND OFFSITE FACILITIES AT JEROME PARK RESERVOIR



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	Jul-09	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
Bronx Workers	46	73	70	72	83	91	102	104	110	111	133	139	163	168	180	181	181	212	199	227	224	228	216	216	204	181	193	195	203	181	210	191	200	211	200	166	168
Total Workers	254	317	280	278	312	356	374	387	436	441	553	558	629	573	718	730	738	827	869	1009	1021	1045	959	912	1007	1001	1073	1027	1054	1067	1160	1115	1182	1237	1088	994	988
Bronx Workers %	18%	23%	25%	26%	27%	26%	27%	27%	25%	25%	24%	25%	26%	29%	25%	25%	25%	26%	23%	22%	22%	22%	23%	24%	20%	18%	18%	19%	19%	17%	17%	17%	18%	18%	17%	17%	17%

Total Average Overall= 21%