

**NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENGINEERING DESIGN AND CONSTRUCTION
CROTON FACILITY MONITORING COMMITTEE MEETING MINUTES
THURSDAY, JUNE 21, 2012 – 7:00 PM**

The Croton Facility Monitoring Committee (CFMC) met on Thursday, June 21, 2012 at the DEP Office, 3660 Jerome Avenue, Bronx, NY 10467.

Welcome

The meeting came to order at 7:15 pm. Chairman Paul Foster welcomed attendees and opened the meeting.

Attending - CFMC Representatives – Attachment 1

Hector Aponte, Bronx Borough Commissioner, Department of Parks & Recreation (DPR); Mr. Foster, Chair, Community Board # 7; Bob Fanuzzi, Chair, Community Board # 8; Wilhelm Ronda, Bronx Borough President's Office; Council Member G. Oliver Koppell and Jamin Sewell, Office of Council Member Oliver Koppell; Father Richard Gorman, Chair, Community Board #12; Mark Lanaghan, Department of Environmental Protection (DEP) **Others Attending:** DEP Staff; DEP Construction Manager; and members of the public.

Adoption of CFMC Meeting Agenda - Attachment 2

The agenda was adopted without objection by the CFMC.

Adoption of CFMC Meeting Minutes from May 17, 2012

The CFMC reviewed and adopted the May 17th minutes, upon a motion from Mr. Fanuzzi, seconded by Mr. Ronda. Gary Axelbank, area resident, and Walt Matystik, Manhattan College, said that CFMC minutes should report on the public's comments in more detail.

Update on Public Design Commission (PDC) Approval of Jogging Path at Jerome Park Reservoir (JPR)

Mr. Aponte and Steve DesNoyer, DPR, said the jogging path item was approved at the June 4, 2012 PDC meeting. In response to a request for the construction timetable, Mr. DesNoyer said the item is currently under review in DPR's Law office and thereafter will be put out to bid. The bidding and registration process may take three or more months; construction is expected to begin in spring 2013. Mr. Foster said DPR should make an effort to hire Bronx-based workers for this project. Mr. Aponte said that Bronx hires are encouraged and that DPR will make a good faith effort to comply with Mr. Foster's request, but that requiring a bidder to hire Bronx workers would be difficult, as generally the DPR contracts are small. Winning bidders typically use their existing workforce and do not hire additional employees. However, Mr. Aponte said, DPR's W/MBE record is excellent, with its contractors achieving minority targets on construction projects. Mr. Lanaghan described the difference between DEP's large construction contracts and the DPR parks improvement projects in terms of dollars and manpower. Mr. Fanuzzi suggested, and the CFMC agreed, to send a letter to DPR, saying that it is the CFMC's

desire to have Bronx-based workers hired for the jogging path project. For this project, Karen Argenti, Bronx Council on the Urban Environment, asked the cost of tree removal, whether tree restitution was part of the contract, and when tree restitution would begin. A short explanation was offered by Mr. DesNoyer about costs. Mr. DesNoyer agreed to provide additional information following the meeting, and he said that tree restitution would not start before spring 2013. [Note, Mr. DesNoyer's costs information went to the CFMC on June 26, 2012.] In reply to a question about whether Ft. Independence Park will be part of the contract, and how many contracts will constitute the project, Mr. Aponte said he expects there to be one contract that includes Ft. Independence Park improvements, perhaps with subcontractors, and that he hopes the playground will not have to close during construction. Mr. Fanuzzi said that dead trees at JPR are being removed, either by DEP or DPR. Mr. DesNoyer said any current tree removal is not part of the DPR jogging path/dam safety improvement project. Mr. Lanaghan said he was not familiar with details but that dead trees were likely being removed as part of regular JPR maintenance. [Note, the CFMC and nearby community representatives received an explanation about the tree removal on July 12, 2012.]

Update on Obtaining City Funding for Pedestrian Bridge over MDE

Mr. Fanuzzi and Father Gorman spoke about their recent briefing to Council Member Palma and the Bronx Council Delegation. Ms. Palma told them that the pedestrian bridge has merit and she will write to the Mayor requesting its funding. Council Member Koppell said there are many budget issues and concerns in the current budget being negotiated now for adoption in less than a week. He said it is too late to include this item in the new budget. However, the pedestrian bridge seed has been planted, and the pedestrian bridge request is going to be on the Bronx Council list for the next budget. Mr. Aponte said, as he has previously, that Mr. Koppell has been responsible for putting substantial parks funding in the budget, and he has consistently supported the funding of the pedestrian bridge. Mr. Koppell said that in fall 2012, the CFMC should renew its pedestrian bridge support efforts. In the meantime, he suggested that the CFMC contact each of the Mayoral candidates to ensure that they too support the bridge.

Detail Regarding Croton Change Orders Mentioned in Commissioner Strickland's City Council Budget Presentation

At the May 2012 CFMC meeting, Mr. Lanaghan was asked to provide detail about \$51.9 million in 2013 attributable as change orders to Croton that were in Commissioner Strickland's budget presentation. See Table I and Table II (*Attachment 3*). Mr. Lanaghan said that \$45 million in additional funding was requested (beyond funding in the January Preliminary Budget Estimates) for DEP design improvements at Van Cortlandt Park. In response to questions, Mr. Aponte added that the green roof of the Croton Filter Plant is a large and complex design, featuring foam, sod and soil. Mr. Lanaghan said that the original amount was underfunded and the new change order reflects current estimates. Bernard Daly, DEP, added that this amount does not include the cost of the club house or the driving range, that it is an estimate and may be negotiated to a lower amount. When registered by the Comptroller, this change order will be registered to CRO 312. Robert Press, Bronx News, asked what DEP will do if the

Comptroller rejects the change order. Mr. Lanaghan said if the Comptroller has questions or concerns, DEP will meet to resolve the matter.

Update on Schedule, Costs, Construction Activities

Costs - Attachment 4

In response to Mr. Daly's inquiry about questions on the previously distributed costs report, there was none.

Construction Update/Look-ahead – Attachment 5

Mr. Daly reported:

The CRO 311, 315 and 313 contracts are complete/virtually complete.

Mr. Aponte requested that Mr. Daly add a construction update column in future reports, showing percentage completion for each Croton contract. Mr. Daly agreed.

The CRO-312 contractors continue work on the Croton Filter Plant structures at VCP. Most concrete is placed. Work is continuing on the façade of the above ground Arrivals and Receiving Building, Chemical Fill Station and Vent Structures. Installation of the 84" water main at the VCP front entrance driveway is complete. Permanent electric power is installed at the facility through two Con Ed feeders. Con Ed is constructing two back-up feeders for the plant from a substation in Yonkers. Other utility work is ongoing, water main work in Jerome and Bainbridge Avenues is complete and sewer work will commence. This work will be from 9pm to 6am on weekdays over the summer. Continuing construction in the treatment plant structure consists of installation of mechanical, electrical, plumbing and HVAC equipment. The electrical contractor is utilizing two shifts during the week and one shift on Saturdays, installing cables and wiring controls and lighting. Water treatment plant equipment is being field tested and checked out over the next six months, and there are final inspections taking place in many areas of the plant.

As a follow up to a request in May to have the driving range, the clubhouse and parking lot projects added to the construction schedule, Mr. Daly said the Department of Design and Construction (DDC), DPR and DEP have not yet developed the schedule.

Construction of the Shaft and Meter Chamber at JPR, including large diameter pipes and valves under CRO-312OS, is well along. An excavation for water main repairs to an existing water main at Sedgwick and Goulden Avenues near Gate House No.7 will commence in July and August 2012 with restrictions for traffic control agents and signage in place similar to last year's. There will be one work shift, and there will be a detour to Paul Ave. Roadway closure will prohibit through traffic between Sedgwick Avenue and 205 Street during two months when schools are not in session; however, some local parking along Goulden Avenue will be available. The water main connections at Gate House No.7 that were originally planned for 2012 (before the water main repairs were deemed a priority) will take place in July and August 2013 with full

roadway closure in effect. Mr. Daly said, in answer to a question, the water main repairs have to be made before connecting the Croton water mains at the location.

Sluice gate replacement and upgrades are underway at Gate House No. 5 and Gate House No. 7. At Gate House No. 5, twenty-two sluice gates must be replaced. At Gate House No. 7, seven existing sluice gates must be refurbished. Electrical work is also underway inside Gate House No. 5. At Gate House No. 1, the gate replacement work on two sluice gates is almost complete. At Gate House No. 2 work has stopped due to structural problems.

The CFMC requested that DEP, DDC and DPR along with Grimshaw Architects come to the next meeting to talk about the landscaping and design. The three agencies have been contacted and asked to provide a presentation at the next meeting if possible.

CRO-312FM Force Main restoration of area-wide test pits is expected to begin in July and will proceed in months following, according to the schedule.

Update on Croton Jobs & Purchases —Attachment 6

Mr. Lanaghan spoke about the current Croton jobs report. The Bronx jobs participation continues at 18% and the value of Bronx purchases has been steady.

CFMC Discussion

Messrs. Koppell, Fanuzzi and Gorman spoke about the importance of having monthly CFMC meetings with DEP an active participant. Mr. Koppell said this was discussed by him and DEP's Commissioner. Mr. Ronda said the matter was also discussed between the Borough President and DEP Commissioner. Mr. Lanaghan said that the DEP has not changed its policy. He said there are four DEP facility monitoring committees and they are all now on a quarterly schedule. The new policy is supported by the Commissioner. DEP will continue to communicate time sensitive developments by phone or email, and not wait for the next CFMC meeting. There were additional objections and comments from the CFMC and members of the public who believe that monthly meetings should continue. Mr. Koppell said he would pursue this matter during the summer months. After the discussion, Mr. Foster set the next CFMC meeting for Thursday, September 20.

The meeting adjourned at 8:15pm.

<u>Name</u>	<u>Organization / Company</u>	<u>Address</u>	<u>Phone</u>	<u>Fax</u>	<u>E-Mail</u>
Hon. Oliver Koppell	Council Member	3636 Waldo Avenue Bronx NY 10463	(718) 549-7300		okoppell@council.nyc.gov
Thomas Farrell, PE	URS-MP Construction Management	3701 Jerome Avenue Bronx, NY 10467	(718) 696 2000		thomas.farrell@shawgrp.com
Robert Press	URS-MP Construction Management	3155 Rochambeau Bronx NY 10467	(718) 696-2000		100percentbronxnews@gmail.com
Robert Fanuzzi	Community Board #8	5676 Riverdale Avenue Bronx NY 10471	(718) 884-4740		fanuzzir@stionhs.edu
Steve Des Noyer	Department of Parks & Recreation	Olmstead Center Flushing Meadows Corona Park	(718) 760-6617		steve.desnoyer@parks.nyc.gov
Father Richard Gorman	Community Board #12	17 Warren Street New York NY	(212) 608-4137		gorman@cb.nyc.gov
Hector Aponete	Bronx Parks Commissioner	1 Bronx River Parkway Bronx NY	(718) 430-1801		hector.aponete@parks.nyc.gov
Mark Lanaghan	Department of Environmental Protection	59-17 Junction Blvd Flushing NY 11368	(718) 595-3519		markl@dep.nyc.gov
Jamin Sewell	Office of Council Member Oliver Koppell	3636 Waldo Avenue Bronx NY 10463	(718) 549-7300		isewell@council.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, P.E.	DEP BEDC Project Manager	3701 Jerome Avenue Bronx, NY 10467	(718) 696-2000	(718) 324-3034	Bdaly@dep.nyc.gov
Gary Axelbank	Van Cortlandt Village Resident		(718) 960-8707		gaxinthebronx@gmail.com
Paul Foster	Community Board #7	229A East 204th Street Bronx NY 10458	(718) - 933-5650		pfoster@cb.nyc.gov
Wilhelm Ronda	Office of Bronx Borough President Diaz	198 East 161st Street Bronx, NY 10451	(718) 590-8087		wronda@bxbp.nyc.gov
Greg Faulkner	Office of Council Member Cabrera	107 E. Burnside Ave Bronx NY 10453	(347) 590-2878		gfoster@council.nyc.gov
Ilona Linins	Lehman College	250 Bedford Park Blvd. Bronx NY	(718) 960-8988		ilona.linins@lehman.edu
Karen Argenti	BCUE	PO Box 346 Bronx NY 10471	(646) 529 1990		kabx101@gmail.com
Walt Matystik	Manhattan College	4573 Manhattan College Pkwy Bronxc NY 10471	(718) 862-7268		wmatysti@manhattan.edu

Agenda
Croton Facility Monitoring Committee Meeting
Thursday, June 21, 2012 – 7:00 PM
DEP Office – 3660 Jerome Avenue, Bronx NY 10467 - (718) 231-8470

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|---|--|
| I Welcome | Paul Foster, Chair |
| II Consider and Adopt the Meeting Agenda | CFMC Representatives |
| III Consider, Adopt 5/17/12 Meeting Minutes | CFMC Representatives |
| IV Update on JPR Jogging Path
Procurement | Hector Aponte, DPR
Steve Des Noyer, DPR |
| V Update on Pedestrian Bridge Funding | CFMC Representatives |
| VI Update on Details regarding Croton Change
Orders | Mark Lanaghan, DEP |
| VII Croton Construction Update, including work
On Goulden & Sedgwick Aves, and Costs | Bernard Daly, P.E., DEP |
| VIII Croton Jobs and Bronx Purchases | Mark Lanaghan, DEP |
| IX CFMC Discussion, Set Next Meeting | CFMC Representatives |
| X Adjourn | |

Table I

PROJECT ID	PROJECT DESCRIPTION	2013	2014	2015	2016	13-16
Totals Verification		60,572	8,000	0	0	68,572
826 HED-545	CROTON FILTRATION PLANT	51,916	0	0	0	51,916
826 HED-CROFM	CROTON FILTRATION PLANT - FORCE MAIN TO HUNTS POINT	1,587	0	0	0	1,587
826 HED-CROOS	CROTON FILTRATION PLANT - OFF-SITE FACILITIES	(8,000)	8,000	0	0	0
846 P-1CRO42A	STORY PLGD COMFORT STATION X204-105MA1/405M	250	0	0	0	250
846 P-1CROT05	PUTNAM TRAIL: AQUISITION OF RIGHT OF WAY	516	0	0	0	516
846 P-1CROT09	PELHAM BAY PARK: WATERFRONT DEVELOPMENT	2,151	0	0	0	2,151
846 P-1CROT14	AQUEDUCT WALK - COMF. STATION X001-207M/507M	1,452	0	0	0	1,452
846 P-1CROT16	BRONX RIVER GRWAY RIVER HOUSE IN STARLIGHT PK X147-107M/407M	(2,638)	0	0	0	(2,638)
846 P-1CROT17	WILLIAMSBRIDGE OVAL PK-SYNTHETIC TURF & TRACK X104-306M	(766)	0	0	0	(766)
846 P-1CROT19	HARRIS PARK ATHLETIC FIELDS X136-106M	1,000	0	0	0	1,000
846 P-1CROT23	VAN CORTLANDT PK: DISTRICT HQS & COMF STAT X092-106M	(3)	0	0	0	(3)
846 P-1CROT24	VAN CORTLANDT PK: PARADE GROUNDS X092-107M	1	0	0	0	1
846 P-1CROT28	JEROME PARK RESERVOIR-RECREATIONAL PATHWAY XG-20000-107M	2,488	0	0	0	2,488
846 P-1CROT32	RECON PATH & MISC WORK @ AQUEDUCT WALK X001-107M	4,735	0	0	0	4,735
846 P-1CROT44	PUGSLEY CREEK - FIELD OF DREAMS BFLDS & SITEWORK X088-207M	(681)	0	0	0	(681)
846 P-1CROT53	MOUNT HOPE PLAYGROUND X257-105M	(293)	0	0	0	(293)
846 P-1CROT68	MULLALY PARK - SKATE BUILDING X034-207M	500	0	0	0	500
846 P-1CROT71	CROTONA BATHHOUSE - MEZZANINE INTERIOR X010-308MA	965	0	0	0	965
850 P1CROT16A	BRONX RIVER GRWAY RIVER HOUSE IN STARLIGHT PK X147-107M/407M	5,392	0	0	0	5,392

Table II

Description	Amount	Comment
CO # 246	\$45,000,000	For CRO-312G, landscaping costs associated with restoration of the driving range and other areas on the plant roof
CO Contingency	\$3,501,000	CRO-312G – contingency for unanticipated change orders in FY 13 on Croton G contract (general or structural contract)
CO Contingency	\$1,570,000	CRO-312H - contingency for unanticipated change orders in FY 13 on Croton H contract (heating/ventilation)
CO Contingency	\$1,845,000	CRO-312P - contingency for unanticipated change orders in FY 13 on Croton P contract (plumbing)
Total:	\$51,916,000	

WM-11 Croton Water Treatment Plant
Cost Summary as of 5/31/2012

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	\$132,410,768	\$1,460,110,768	10%	
CRO-312E1	Schlesinger-Siemens, LLC	\$134,680,000	\$22,393,702	\$157,073,702	17%	
CRO-312E2	Schlesinger-Siemens, LLC	\$37,678,000	\$7,358,105	\$45,036,105	20%	
CRO-312H	Durr Mechanical Construction	\$105,700,000	\$22,887,486	\$128,587,486	22%	
CRO-312P	Picone/WDF, JV	\$58,475,000	\$12,888,126	\$71,363,126	22%	
CRO-312OS-G	Picone-Schiavone, JV	\$96,842,500	\$28,449,016	\$125,291,516	29%	
CRO-312OS-E	Eldor Electric	\$15,762,500	\$1,197,364	\$16,959,864	8%	
CRO-312OS-H	AWL Industries	\$822,000	\$56,971	\$878,971	7%	
CRO-312OS-P	JPP Plumbing	\$872,000	\$194,117	\$1,066,117	22%	
CRO-312FM (1)	Maspeh Supply Co. LLC	\$18,626,745	\$12,519,525	\$31,146,270	67%	
CRO-313	Schiavone/Picone, JV	\$212,227,000	-\$6,787,681	\$205,439,319	-3%	
CRO-315G	Angelakis Construction Corp.	\$3,641,000	\$2,282	\$3,643,282	0%	
CRO-315E	Interphase Electric	\$807,317	\$144,874	\$952,191	18%	
CRO-312CE	Con Edison	\$4,074,526	\$0	\$4,074,526	0%	
TOTAL		\$2,145,568,568	\$219,269,440	\$2,364,838,028	10%	
Croton WTP Design / Construction Management Costs						
HED-543 DES	Metcalf & Eddy / Hazen and Sawyer, JV	\$44,226,000	\$224,672,648	\$268,898,648	508%	
HED-545 CM	URS/Malcolm Pirnie, JV	\$63,400,000	\$76,195,713	\$139,595,713	120%	
TOTAL		\$107,626,000	\$300,868,361	\$408,494,361	280%	

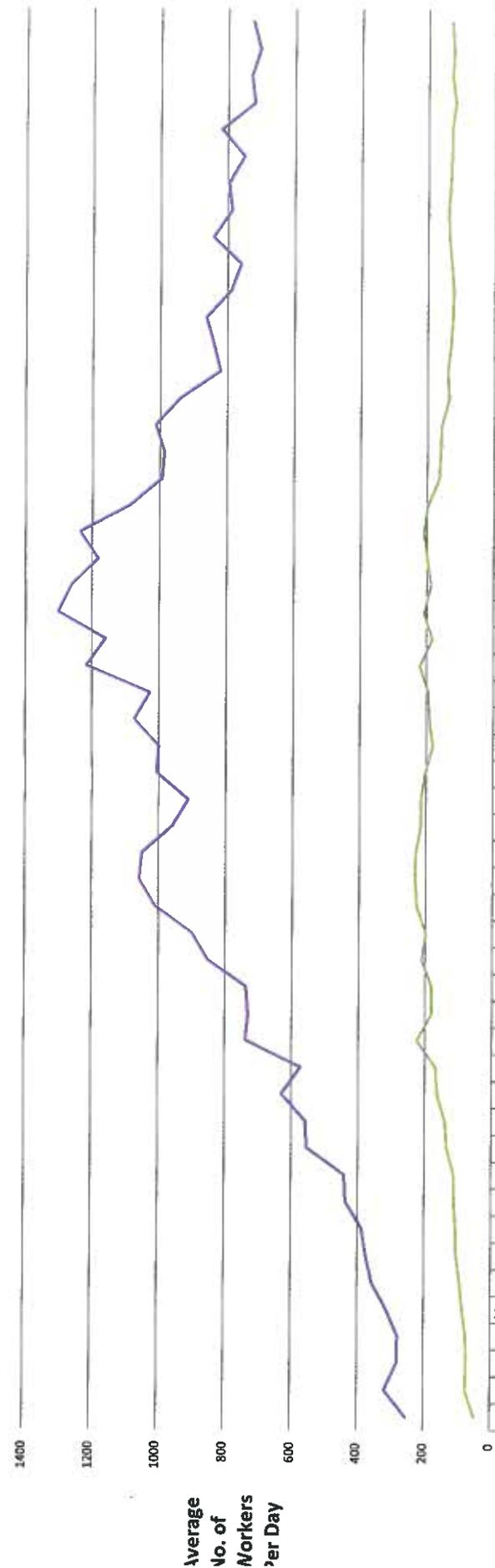
Rehabilitation of the New Croton Aqueduct Construction Costs						
Contract	Contractor Name	Original Contract Price	Registered Change Orders	Current Contract Amount	% Contract Increase	
CRO-334G	Frontier-Kemper/Schiavone/Picone JV	\$91,696,805	\$22,032,834	\$113,729,639	24%	
CRO-334E	Community Electric	\$1,119,000	\$266,375	\$1,385,375	24%	
TOTAL		\$92,815,805	\$22,299,209	\$115,115,014	24%	
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	36%	
TOTAL		\$5,952,446	\$2,161,900	\$8,114,346	36%	

Notes:

(1) Costs shown for CRO-312FM are for the original Force Main Route to Hunts Point WPCP.

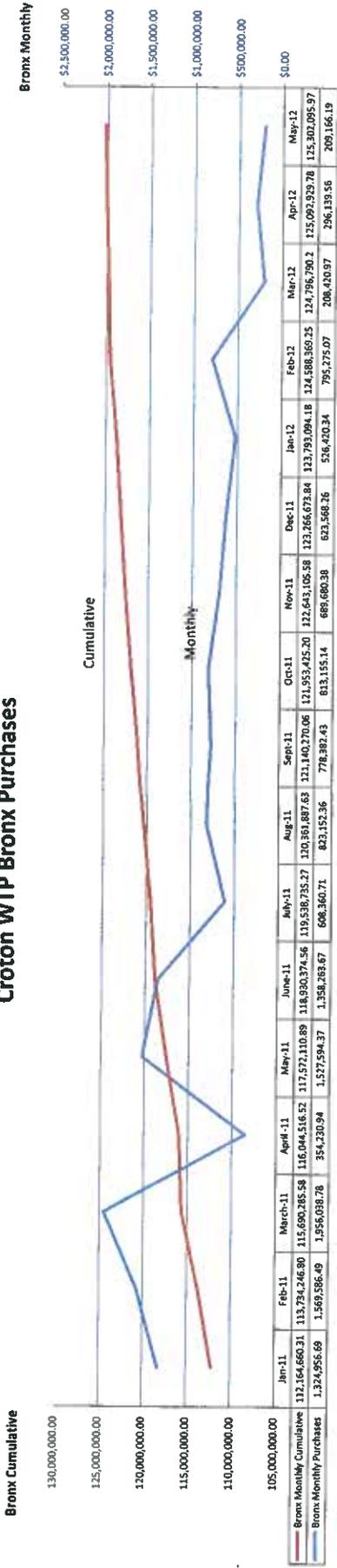
(2) Design costs for CRO-334G and CRO-334E are included in Contract HED-543 DES.

CROTON WATER TREATMENT PLANT AND OFFSITE FACILITIES AT JEROME PARK RESERVOIR



	Jan-08	Feb-08	Mar-08	Apr-08	Ma y-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	Ma y-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	Ma y-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	Ma y-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	Ma y-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	Ma y-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	Ma y-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	Ma y-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	Ma y-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	Ma y-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	Ma y-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Ma y-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Ma y-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Ma y-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	Ma y-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Ma y-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Ma y-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	Ma y-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Apr-26	Ma y-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27	Apr-27	Ma y-27	Jun-27	Jul-27	Aug-27	Sep-27	Oct-27	Nov-27	Dec-27	Jan-28	Feb-28	Mar-28	Apr-28	Ma y-28	Jun-28	Jul-28	Aug-28	Sep-28	Oct-28	Nov-28	Dec-28	Jan-29	Feb-29	Mar-29	Apr-29	Ma y-29	Jun-29	Jul-29	Aug-29	Sep-29	Oct-29	Nov-29	Dec-29	Jan-30	Feb-30	Mar-30	Apr-30	Ma y-30	Jun-30	Jul-30	Aug-30	Sep-30	Oct-30	Nov-30	Dec-30	Jan-31	Feb-31	Mar-31	Apr-31	Ma y-31	Jun-31	Jul-31	Aug-31	Sep-31	Oct-31	Nov-31	Dec-31	Jan-32	Feb-32	Mar-32	Apr-32	Ma y-32	Jun-32	Jul-32	Aug-32	Sep-32	Oct-32	Nov-32	Dec-32	Jan-33	Feb-33	Mar-33	Apr-33	Ma y-33	Jun-33	Jul-33	Aug-33	Sep-33	Oct-33	Nov-33	Dec-33	Jan-34	Feb-34	Mar-34	Apr-34	Ma y-34	Jun-34	Jul-34	Aug-34	Sep-34	Oct-34	Nov-34	Dec-34	Jan-35	Feb-35	Mar-35	Apr-35	Ma y-35	Jun-35	Jul-35	Aug-35	Sep-35	Oct-35	Nov-35	Dec-35	Jan-36	Feb-36	Mar-36	Apr-36	Ma y-36	Jun-36	Jul-36	Aug-36	Sep-36	Oct-36	Nov-36	Dec-36	Jan-37	Feb-37	Mar-37	Apr-37	Ma y-37	Jun-37	Jul-37	Aug-37	Sep-37	Oct-37	Nov-37	Dec-37	Jan-38	Feb-38	Mar-38	Apr-38	Ma y-38	Jun-38	Jul-38	Aug-38	Sep-38	Oct-38	Nov-38	Dec-38	Jan-39	Feb-39	Mar-39	Apr-39	Ma y-39	Jun-39	Jul-39	Aug-39	Sep-39	Oct-39	Nov-39	Dec-39	Jan-40	Feb-40	Mar-40	Apr-40	Ma y-40	Jun-40	Jul-40	Aug-40	Sep-40	Oct-40	Nov-40	Dec-40	Jan-41	Feb-41	Mar-41	Apr-41	Ma y-41	Jun-41	Jul-41	Aug-41	Sep-41	Oct-41	Nov-41	Dec-41	Jan-42	Feb-42	Mar-42	Apr-42	Ma y-42	Jun-42	Jul-42	Aug-42	Sep-42	Oct-42	Nov-42	Dec-42	Jan-43	Feb-43	Mar-43	Apr-43	Ma y-43	Jun-43	Jul-43	Aug-43	Sep-43	Oct-43	Nov-43	Dec-43	Jan-44	Feb-44	Mar-44	Apr-44	Ma y-44	Jun-44	Jul-44	Aug-44	Sep-44	Oct-44	Nov-44	Dec-44	Jan-45	Feb-45	Mar-45	Apr-45	Ma y-45	Jun-45	Jul-45	Aug-45	Sep-45	Oct-45	Nov-45	Dec-45	Jan-46	Feb-46	Mar-46	Apr-46	Ma y-46	Jun-46	Jul-46	Aug-46	Sep-46	Oct-46	Nov-46	Dec-46	Jan-47	Feb-47	Mar-47	Apr-47	Ma y-47	Jun-47	Jul-47	Aug-47	Sep-47	Oct-47	Nov-47	Dec-47	Jan-48	Feb-48	Mar-48	Apr-48	Ma y-48	Jun-48	Jul-48	Aug-48	Sep-48	Oct-48	Nov-48	Dec-48	Jan-49	Feb-49	Mar-49	Apr-49	Ma y-49	Jun-49	Jul-49	Aug-49	Sep-49	Oct-49	Nov-49	Dec-49	Jan-50	Feb-50	Mar-50	Apr-50	Ma y-50	Jun-50	Jul-50	Aug-50	Sep-50	Oct-50	Nov-50	Dec-50	Jan-51	Feb-51	Mar-51	Apr-51	Ma y-51	Jun-51	Jul-51	Aug-51	Sep-51	Oct-51	Nov-51	Dec-51	Jan-52	Feb-52	Mar-52	Apr-52	Ma y-52	Jun-52	Jul-52	Aug-52	Sep-52	Oct-52	Nov-52	Dec-52	Jan-53	Feb-53	Mar-53	Apr-53	Ma y-53	Jun-53	Jul-53	Aug-53	Sep-53	Oct-53	Nov-53	Dec-53	Jan-54	Feb-54	Mar-54	Apr-54	Ma y-54	Jun-54	Jul-54	Aug-54	Sep-54	Oct-54	Nov-54	Dec-54	Jan-55	Feb-55	Mar-55	Apr-55	Ma y-55	Jun-55	Jul-55	Aug-55	Sep-55	Oct-55	Nov-55	Dec-55	Jan-56	Feb-56	Mar-56	Apr-56	Ma y-56	Jun-56	Jul-56	Aug-56	Sep-56	Oct-56	Nov-56	Dec-56	Jan-57	Feb-57	Mar-57	Apr-57	Ma y-57	Jun-57	Jul-57	Aug-57	Sep-57	Oct-57	Nov-57	Dec-57	Jan-58	Feb-58	Mar-58	Apr-58	Ma y-58	Jun-58	Jul-58	Aug-58	Sep-58	Oct-58	Nov-58	Dec-58	Jan-59	Feb-59	Mar-59	Apr-59	Ma y-59	Jun-59	Jul-59	Aug-59	Sep-59	Oct-59	Nov-59	Dec-59	Jan-60	Feb-60	Mar-60	Apr-60	Ma y-60	Jun-60	Jul-60	Aug-60	Sep-60	Oct-60	Nov-60	Dec-60	Jan-61	Feb-61	Mar-61	Apr-61	Ma y-61	Jun-61	Jul-61	Aug-61	Sep-61	Oct-61	Nov-61	Dec-61	Jan-62	Feb-62	Mar-62	Apr-62	Ma y-62	Jun-62	Jul-62	Aug-62	Sep-62	Oct-62	Nov-62	Dec-62	Jan-63	Feb-63	Mar-63	Apr-63	Ma y-63	Jun-63	Jul-63	Aug-63	Sep-63	Oct-63	Nov-63	Dec-63	Jan-64	Feb-64	Mar-64	Apr-64	Ma y-64	Jun-64	Jul-64	Aug-64	Sep-64	Oct-64	Nov-64	Dec-64	Jan-65	Feb-65	Mar-65	Apr-65	Ma y-65	Jun-65	Jul-65	Aug-65	Sep-65	Oct-65	Nov-65	Dec-65	Jan-66	Feb-66	Mar-66	Apr-66	Ma y-66	Jun-66	Jul-66	Aug-66	Sep-66	Oct-66	Nov-66	Dec-66	Jan-67	Feb-67	Mar-67	Apr-67	Ma y-67	Jun-67	Jul-67	Aug-67	Sep-67	Oct-67	Nov-67	Dec-67	Jan-68	Feb-68	Mar-68	Apr-68	Ma y-68	Jun-68	Jul-68	Aug-68	Sep-68	Oct-68	Nov-68	Dec-68	Jan-69	Feb-69	Mar-69	Apr-69	Ma y-69	Jun-69	Jul-69	Aug-69	Sep-69	Oct-69	Nov-69	Dec-69	Jan-70	Feb-70	Mar-70	Apr-70	Ma y-70	Jun-70	Jul-70	Aug-70	Sep-70	Oct-70	Nov-70	Dec-70	Jan-71	Feb-71	Mar-71	Apr-71	Ma y-71	Jun-71	Jul-71	Aug-71	Sep-71	Oct-71	Nov-71	Dec-71	Jan-72	Feb-72	Mar-72	Apr-72	Ma y-72	Jun-72	Jul-72	Aug-72	Sep-72	Oct-72	Nov-72	Dec-72	Jan-73	Feb-73	Mar-73	Apr-73	Ma y-73	Jun-73	Jul-73	Aug-73	Sep-73	Oct-73	Nov-73	Dec-73	Jan-74	Feb-74	Mar-74	Apr-74	Ma y-74	Jun-74	Jul-74	Aug-74	Sep-74	Oct-74	Nov-74	Dec-74	Jan-75	Feb-75	Mar-75	Apr-75	Ma y-75	Jun-75	Jul-75	Aug-75	Sep-75	Oct-75	Nov-75	Dec-75	Jan-76	Feb-76	Mar-76	Apr-76	Ma y-76	Jun-76	Jul-76	Aug-76	Sep-76	Oct-76	Nov-76	Dec-76	Jan-77	Feb-77	Mar-77	Apr-77	Ma y-77	Jun-77	Jul-77	Aug-77	Sep-77	Oct-77	Nov-77	Dec-77	Jan-78	Feb-78	Mar-78	Apr-78	Ma y-78	Jun-78	Jul-78	Aug-78	Sep-78	Oct-78	Nov-78	Dec-78	Jan-79	Feb-79	Mar-79	Apr-79	Ma y-79	Jun-79	Jul-79	Aug-79	Sep-79	Oct-79	Nov-79	Dec-79	Jan-80	Feb-80	Mar-80	Apr-80	Ma y-80	Jun-80	Jul-80	Aug-80	Sep-80	Oct-80	Nov-80	Dec-80	Jan-81	Feb-81	Mar-81	Apr-81	Ma y-81	Jun-81	Jul-81	Aug-81	Sep-81	Oct-81	Nov-81	Dec-81	Jan-82	Feb-82	Mar-82	Apr-82	Ma y-82	Jun-82	Jul-82	Aug-82	Sep-82	Oct-82	Nov-82	Dec-82	Jan-83	Feb-83	Mar-83	Apr-83	Ma y-83	Jun-83	Jul-83	Aug-83	Sep-83	Oct-83	Nov-83	Dec-83	Jan-84	Feb-84	Mar-84	Apr-84	Ma y-84	Jun-84	Jul-84	Aug-84	Sep-84	Oct-84	Nov-84	Dec-84	Jan-85	Feb-85	Mar-85	Apr-85	Ma y-85	Jun-85	Jul-85	Aug-85	Sep-85	Oct-85	Nov-85	Dec-85	Jan-86	Feb-86	Mar-86	Apr-86	Ma y-86	Jun-86	Jul-86	Aug-86	Sep-86	Oct-86	Nov-86	Dec-86	Jan-87	Feb-87	Mar-87	Apr-87	Ma y-87	Jun-87	Jul-87	Aug-87	Sep-87	Oct-87	Nov-87	Dec-87	Jan-88	Feb-88	Mar-88	Apr-88	Ma y-88	Jun-88	Jul-88	Aug-88	Sep-88	Oct-88	Nov-88	Dec-88	Jan-89	Feb-89	Mar-89	Apr-89	Ma y-89	Jun-89	Jul-89	Aug-89	Sep-89	Oct-89	Nov-89	Dec-89	Jan-90	Feb-90	Mar-90	Apr-90	Ma y-90	Jun-90	Jul-90	Aug-90	Sep-90	Oct-90	Nov-90	Dec-90	Jan-91	Feb-91	Mar-91	Apr-91	Ma y-91	Jun-91	Jul-91	Aug-91	Sep-91	Oct-91	Nov-91	Dec-91	Jan-92	Feb-92	Mar-92	Apr-92	Ma y-92	Jun-92	Jul-92	Aug-92	Sep-92	Oct-92	Nov-92	Dec-92	Jan-93	Feb-93	Mar-93	Apr-93	Ma y-93	Jun-93	Jul-93	Aug-93	Sep-93	Oct-93	Nov-93	Dec-93	Jan-94	Feb-94	Mar-94	Apr-94	Ma y-94	Jun-94	Jul-94	Aug-94	Sep-94	Oct-94	Nov-94	Dec-94	Jan-95	Feb-95	Mar-95	Apr-95	Ma y-95	Jun-95	Jul-95	Aug-95	Sep-95	Oct-95	Nov-95	Dec-95	Jan-96	Feb-96	Mar-96	Apr-96	Ma y-96	Jun-96	Jul-96	Aug-96	Sep-96	Oct-96	Nov-96	Dec-96	Jan-97	Feb-97	Mar-97	Apr-97	Ma y-97	Jun-97	Jul-97	Aug-97	Sep-97	Oct-97	Nov-97	Dec-97	Jan-98	Feb-98	Mar-98	Apr-98	Ma y-98	Jun-98	Jul-98	Aug-98	Sep-98	Oct-98	Nov-98	Dec-98	Jan-99	Feb-99	Mar-99	Apr-99	Ma y-99	Jun-99	Jul-99	Aug-99	Sep-99	Oct-99	Nov-99	Dec-99	Jan-00	Feb-00	Mar-00	Apr-00	Ma y-00	Jun-00	Jul-00	Aug-00	Sep-00	Oct-00	Nov-00	Dec-00	Jan-01	Feb-01	Mar-01	Apr-01	Ma y-01	Jun-01	Jul-01	Aug-01	Sep-01	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	Ma y-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	Ma y-03	Jun-03	Jul-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	Ma y-04	Jun-04	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	Ma y-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	Ma y-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	Ma y-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	Ma y-
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Croton WTP Bronx Purchases



TOP FIVE VENDORS TO DATE

	Jenna Concrete	CFS Steel	Central Sheet Metal	Ticon	Perimeter Security
May-12	39,613,289.43	37,822,796.24	32,435,603.00	2,271,604.52	3,402,437.28