

**NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENGINEERING DESIGN AND CONSTRUCTION
CROTON FACILITY MONITORING COMMITTEE MEETING MINUTES
THURSDAY, MAY 17, 2012 – 7:00 PM**

The Croton Facility Monitoring Committee (CFMC) met on Thursday, May 17, 2012 at the DEP Office, 3660 Jerome Avenue, Bronx, NY 10467.

Welcome

The meeting was called to order at 7:05 pm. Chairman Paul Foster welcomed attendees..

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; Daniel Donovan, Bronx Borough President's Office; Council Member G. Oliver Koppell and Jamin Sewell, Office of Council Member Oliver Koppell; Mark Lanaghan, Department of Environmental Protection (DEP) **Not Attending:** Father Richard Gorman, Chair, Community Board #12 **Others Attending:** Tom McNeal, Office of Assembly Member Dinowitz; DEP Staff; DEP Construction Manager; and members of the public.

Adoption of CFMC Meeting Agenda - Attachment 2

The agenda was adopted by the CFMC after clarification about the item regarding the pedestrian bridge over Major Deegan Expressway (MDE) on the agenda.

Adoption of CFMC Meeting Minutes from April 19, 2012

Mr. Foster asked CFMC representatives for comments/changes to April's CFMC meeting minutes. The CFMC adopted the minutes, upon a motion from Mr. Fanuzzi, seconded by Mr. Aponte.

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

Mr. Aponte said all materials requested by the PDC have been submitted. DPR is awaiting confirmation about whether the jogging path item will be on the June 4th PDC agenda. Mr. Fanuzzi said if the PDC declines to calendar the item on June 4th, he wants a meeting among the PDC, Community Board #8 and other relevant organizations to resolve the issues preventing adoption.

Update on Obtaining City Funding for Pedestrian Bridge over MDE

Mr. Fanuzzi said that he and Father Gorman will split the 20 minutes allocated to the CFMC by Council Member Annabel Palma at the Bronx City Council Delegation meeting on Monday, May 21 at 1:15pm at Hostos Community College. This is a tentative meeting, and the CFMC will be notified if it is postponed or cancelled. Mr. Fanuzzi and Father Gorman will explain why it is important for the City Council to fund the bridge. He said he would read the CFMC's resolution as well as letters from parks users. He requested more letters in support. He said he will tell the Delegation that the

bridge is a city-wide amenity which has borough-wide benefits. He will say that the item provides equity to the Bronx to balance the impact to the Bronx from the Croton Filter Plant.

Mr. Aponte said that Council Member Koppell endorsed this item at the May 16 Parks City Council Finance Committee hearing. Mr. Koppell said he regretted missing the May 21 discussion with the Bronx Delegation but would be away attending an event. He encouraged Mr. Fanuzzi to also reach out to Council Member Recchia, Chair of the City Council Finance Committee, who had expressed interest in this item. Mr. Koppell said that the Borough President and the City Administration must also prioritize the pedestrian bridge's funding. There was another discussion about finding \$15 million to fund the bridge from DEP's additional change orders in the amount of \$68 million that Commissioner Strickland spoke about in DEP's budget hearings. There was further discussion between Messrs. Koppell and Fanuzzi that \$5 million in the new budget and \$10 million in a future budget would be a workable strategy. Mr. Koppell said he would argue that all of the funds should come from DEP's budget. Karen Argenti, Bronx Council on Urban Environment, read a portion of the ULURP Resolution, contending that DEP must fund the bridge if it is deemed feasible.

Explanation of Croton Filter Project's Cost Impact on Water Rates – Attachment 3

Mr. Lanaghan said that the NYC Water Board presentation, distributed to the CFMC in April for review, illustrates the impact of several large, mandated water projects on customers' water charges. Three largest such projects result in charges of \$106 per year per water account, of which \$48/year (\$4 per month) is attributable to Croton. Mr. Lanaghan distributed Commissioner Strickland's Finance Committee testimony - *Attachment 4*. He was asked about \$51.9 million in 2013 attributable as change orders to Croton, and he was requested to submit a breakdown of these change orders and whether they are registered or pending. Mr. Lanaghan said the information will be available soon. Mr. Fanuzzi requested that it be in spreadsheet format and asked if the new water rates could be tied to these change orders. Mr. Koppell pointed out that construction costs are still increasing, despite that costs of construction in the region have decreased from the years when very high prices were bid by the industry on major infrastructure projects, including Croton. Mr. Foster asked what DEP plans to do to hold down costs so ratepayers aren't further impacted. Ms. Argenti and Robert Press, Bronx News, made statements and asked questions that were responded to by Mr. Lanaghan.

Update on Schedule, Costs, Construction Activities

Costs - Attachment 5

Vincent Moorehead, DEP, asked if there were questions about the previously-distributed costs report. Richard Barr, formerly of Bronx High School of Science's Parents Association, asked a question that had been answered earlier.

Construction Update/Look-ahead – Attachment 6

Mr. Moorhead gave the update:

The CRO-312 contractors continue work on the Croton Filter Plant structures at VCP. Most concrete has been 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. The water main has been capped at Jerome Avenue and may be connected to distribution at a later time. 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, including water main and sewer piping in Jerome and Bainbridge Avenues, which will continue during the next several months from 9pm to 6am on weekdays. The water main work should finish soon and when it is completed, sewer work will start. Construction of on-site retaining walls continues. 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 and there are final inspections taking place in many areas of the plant. The testing phase is rigorous.

CRO-312FM Force Main restoration of the test pits is expected to begin in July, according to the present schedule.

Construction of the Shaft and Meter Chamber at JPR, including large diameter pipes and valves under CRO-312OS, is ongoing. Concrete is in place; mezzanine grating, drain piping and electrical work are continuing. The next 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. The Goulden Avenue roadway will be closed entirely during these two months when schools are not in session. The water main connections at Gate House 7 are currently planned for July and August 2013 when full roadway closures can be granted again.

DEP will not require blasting for installation of yard piping at the JPR site as the contractor has been successfully using mechanical means for excavation.

Ms. Argenti complained about the dirty roadway at JPR from construction activities. She asked Mr. Moorehead to require the contractors to water down the road at day's end. Mr. Moorehead said he would address this.

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.

Mr. Koppell requested clarification about whether DEP or another agency will build the driving range and club house at Van Cortlandt Park. Mr. Moorehead, Mr. Aponte and Lauren Competello, DEP, explained that the Croton contractor will build the driving

range which will be on top of the DEP facility. Then the Club House, Tee boxes, parking lot and retaining walls will be built by the Department of Design and Construction as agent for DPR. There is coordination underway among DEP, DDC and DPR with Grimshaw Architects on the project. In response to questions, Mr. Aponte said that the agencies are continuing discussions about plans that are less costly and that provide more safety. As an example, he cited the “moat type” water treatment which was viewed by DPR and the CFMC as not providing sufficient public protection. Mr. Koppell and Mr. Foster again asked for an updated presentation of the plans for this part of VCP. They added that the CFMC intends to play a meaningful role and provide input on the landscaping and architectural plans instead of being faced with plans that are a *fait accompli*. Martha Holstein, construction management, said that last month’s CFMC request for an updated Grimshaw presentation has been communicated to DEP’s Design officials and to DDC and DPR project officials. The three agencies are in discussions and the CFMC will be informed about when Grimshaw’s presentation can be scheduled.

Ms. Argenti requested that the driving range be added to the construction look-ahead and that the Grimshaw work on the clubhouse and parking lot be added to the chart so that the public can see when all the architectural features associated with VCP restoration will be performed.

Update on Croton Jobs & Purchases —Attachment7

Mr. Lanaghan spoke about the current Croton jobs report. The Bronx jobs participation continues at 18% as of March, and through the last month, Bronx purchases were \$296,000.

CFMC Discussion

Mr. Lanaghan said that DEP has made a decision affecting each of the four DEP facility monitoring committees (Newtown Creek, Hunts Point, Brookfield Landfill and Croton) to participate in quarterly, not monthly meetings. He said the policy is effective immediately, but that obviously the CFMC may meet as it chooses – just without DEP at the table except quarterly. Mr. Koppell said he learned of the policy very recently and has asked Commissioner Strickland to decide on a case by case basis about DEP’s participation in Croton meetings, rather than holding to a rigid plan. Mr. Foster said that DPR and DEP must attend meetings or they will be fruitless. He said that the CFMC had considered whether monthly meetings were necessarily last month when Mr. Lanaghan couldn’t attend, and had determined that monthly meetings are valuable. Mr. Fanuzzi proposed a resolution mandating that DEP attend all CFMC meetings. This was seconded by Mr. Koppell. There were three votes to approve: Messrs. Fanuzzi, Koppell and Foster. There were three abstentions: Messrs. Lanaghan, Aponte, and Donovan. Since the resolution was not adopted, Mr. Foster asked DEP to compromise: participate in next month’s meeting and then develop a policy about frequency of meetings. Mr. Lanaghan said he is not prepared at this time to commit to attending in June. Mr. Koppell said additional actions on this might be needed, possibly including litigation.

The committee set the next meeting for Thursday, June 21. Mr. Aponte moved to adjourn at 8:35pm.

<u>Name</u>	<u>Organization / Company</u>	<u>Address</u>	<u>Phone</u>	<u>Fax</u>	<u>E-Mail</u>
Tom McNeil	Office of Assembly Member Dinowitz	3107 Kingsbridge Avenue Bronx NY 10463	(718) 796-0694		thomas0330@hotmail.com
Thomas Farrell, PE	URS-MP Construction Management	3701 Jerome Avenue Bronx, NY 10467	(718) 696 2000		thomas.farrell@shawgrp.com
Adam Wisneski	Riverdale Press	6155 Broadway Bronx NY	(718) 593 6500		awisneski@riverdalepress.com
Mark Lanaghan	Assistant Commissioner Dept of Environ Protect	59-17 Junction Boulevard Flushing NY 11368	(718) 595-3519		markl@dep.nyc.gov
Hon. G.Oliver Koppell	Council Member	3636 Waldo Avenue Bronx NY 10463	(718) 549-7300		okoppell@council.nyc.gov
Heather Goetsch	Department of Environmental Protection	3701 Jerome Avenue Bronx, NY 10467	(718) 696 2000		hgoetsch@dep.nyc.gov
Hector Aponte	Bronx Parks Commissioner	1 Bronx River Parkway Bronx NY	(718) 430-1801	(718) 231-8857	hector.aponte@parks.nyc.gov
Lauren Competello	Department of Environmental Protection	96-05 Horace Harding Exp Flushing NY 11368	(718) 595 6221		laurenc@dep.nyc.gov
Dennis Stanford	Department of Environmental Protection	3701 Jerome Avenue Bronx, NY 10467	(718) 696 2000		dstanford@dep.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
Vincent Moorehead	DEP BEDC Dep Project Manager	3701 Jerome Avenue Bronx, NY 10467	(718) 696-2000	(718) 324-3034	vmoothead@dep.nyc.gov
Robert Press	Bronx News	3155 Rochambeau Bronx NY 10467	(718) 653-6992		100percentbronxnews@gmail.com
Paul Foster	Community Board #7	229A East 204th Street Bronx NY 10458	(718) - 933-5650		pfoster@cb.nyc.gov
Daniel Donovan	Office of Bronx Borough President Diaz	198 East 161st Street Bronx, NY 10451	(718) 590-3047		ddonovan@bronxbp.nyc.gov
Bob Fanuzzi	Community Board #8	5676 Riverdale Avenue Bronx NY 10471	(718) 884-4740		fanuzzir@stjohns.edu
Richard Barr	Bronx High School of Science Parents Assn	203 West 86 Street New York NY 10024	(347) 275-5154		richardedbarr@aol.com
Karen Argenti	BCUE	3400 Paul Ave - 12T Bronx NY 10468	(646) 432-6132		kabx101@gmail.com
Jamin Sewell	Office of Council Member Oliver Koppell	3636 Waldo Avenue Bronx NY 10463	(718) 549-7300		jsewell@council.nyc.gov

Agenda
Croton Facility Monitoring Committee Meeting
Thursday, May 17, 2012 – 7:00 PM
DEP Office – 3660 Jerome Avenue, Bronx NY 10467 - (718) 231-8470

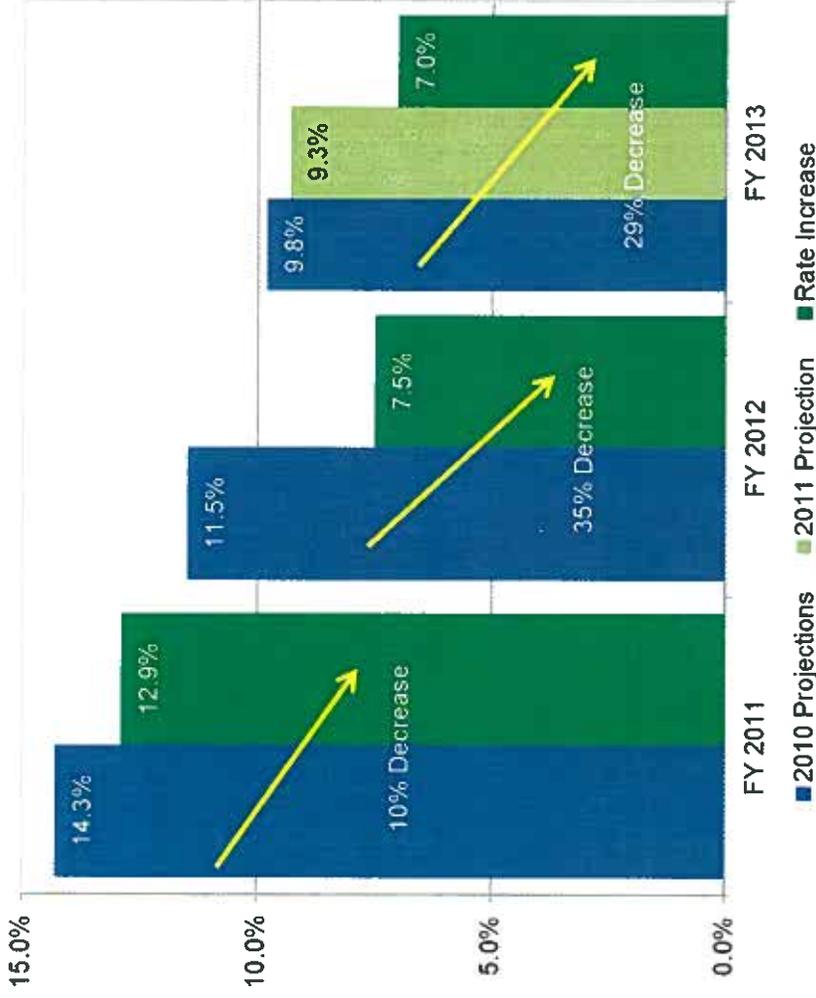
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| I Welcome | Paul Foster, Chair |
| II Consider and Adopt the Meeting Agenda | CFMC Representatives |
| III Consider, Adopt 4/19/12 Meeting Minutes | CFMC Representatives |
| IV Update on JPR Jogging Path PDC Status | Hector Aponte, DPR
Steve Des Noyer, DPR |
| V Update on Pedestrian Bridge Funding | CFMC Representatives |
| VI NYC Water Rate Increase – Impact on Rates of Cost of Croton Filter Plant | Mark Lanaghan, DEP |
| VII Croton Construction Update, Schedule And Costs | Vincent Moorehead, P.E., DEP |
| VIII Croton Jobs and Bronx Purchases | Mark Lanaghan, DEP |
| IX CFMC Discussion, Set Next Meeting | CFMC Representatives |
| X Adjourn | |



FY 2013 Water Rate Proposal to the New York City Water Board

March 30, 2012

FY 2013 Rate Proposal Summary



- ❖ Proposing **7%** rate increase
- ❖ Lowest rate increase in 7 years
- ❖ 29% lower than 2010 projection of FY 2013 rate increase

	FY 2012	FY 2013 (7% Increase)
Combined Water & Sewer Rate (per hundred cubic feet)	\$8.21	\$8.78 (\$0.57)
Average Annual Single Family Charge (80,000 gal)	\$877	\$939 (\$62)
Average Annual Multi-family Charge (52,000 gal)	\$571	\$610 (\$39)

Changes in Rate Structure, FY 2013

- ❖ Expiration of frontage-based charges for Tax Class 2 multi-family properties
 - Conversion to Multi-family Conservation Program (MCP) with metering and conservation requirements,
 - or customer can opt for immediate meter-based billing
- ❖ Service Line Protection Program will allow customers to opt-in to insurance for water or sewer service line repairs, or both
- ❖ Rental Payment from water system to general fund to be capped at FY 2011 amount and adjusted for inflation in 3-year pilot through FY 2015

Multi-family Conservation Program

- ❖ End of frontage for Tax Class 2 multi-family properties
 - 30,455 frontage accounts (3.5% of DEP's customers)
 - Billed \$750M in FY 2012 (24.5% of in-City revenues)
- ❖ Conversion to an affordable Multi-family Conservation Program (MCP)
 - The 30,455 accounts (with 908,745 units) will be billed on per-unit charges:

Unit Type	Unit Count	Charge Per Unit
Dwelling	889,760	\$894.15
Low-use Commercial	11,284	\$736.13
Lodger/ SRO	7,701	\$253.56
Total	908,745	-

- ❖ FY 2013 charges will total \$803M, a 7% increase for the average apartment building
- ❖ DEP will provide a web-based tool to enable customers to evaluate whether the MCP or metered charges are more economical for them
- ❖ For each property, participants will be required to have:
 - Approved meter and wireless reading device by January 2014
 - Water efficient fixtures in 70% of the building's units by June 2015
- ❖ DEP will launch a fixture replacement program in 2013 to support the installation of more efficient toilets in public and private buildings

Service Line Protection Program

- ❖ Building owners, not DEP, are responsible for repairs to their service lines
- ❖ Building owners pay an average of \$3,750 to fix each water service line leak
- ❖ Water Board issued RFP for contractor who will offer Service Line Protection policies to all water and sewer customers with service lines of 2" or less
- ❖ Coverage will spare homeowners the costs of unexpected service line repairs, minimize overall disruption to the local community and reduce the expense to DEP of shutting down water service on service line leaks that have not been repaired
- ❖ Customers will be able to opt in to the program for either water or sewer coverage, or both

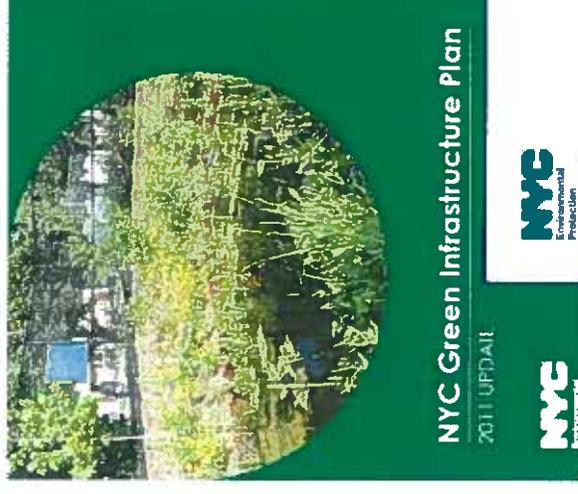
Capped Rental Payment Pilot

- ❖ Many municipal systems make payments to their general funds for city services provided to the water and wastewater systems, such as police, fire and sanitation
- ❖ NYC's Rental Payment is based on required debt service coverage ratio for bonds
- ❖ Proposal is to cap Rental Payment at FY 2011 amount for FY 2012 and increase it each year in line with projected inflation for a 3-year pilot period through FY 2015
- ❖ Amount of gross rental calculation over the capped amount will be returned to the water system in each following year
- ❖ Returned funding of \$98M will be used for partial mitigation of future rate increases, green infrastructure, and other programs

	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
Gross Rental Payment		\$210	\$231	\$257	\$270
Capped Rental Payment	\$196	\$196	\$199	\$205	\$211
Residual Payment to be Returned		\$14	\$32	\$52	\$59
Returned Rental Payment (1-year Lag)		\$14	\$14	\$32	\$52
Returned Payment as % of Gross Payment			6%	13%	19%

FY 2012 Highlights

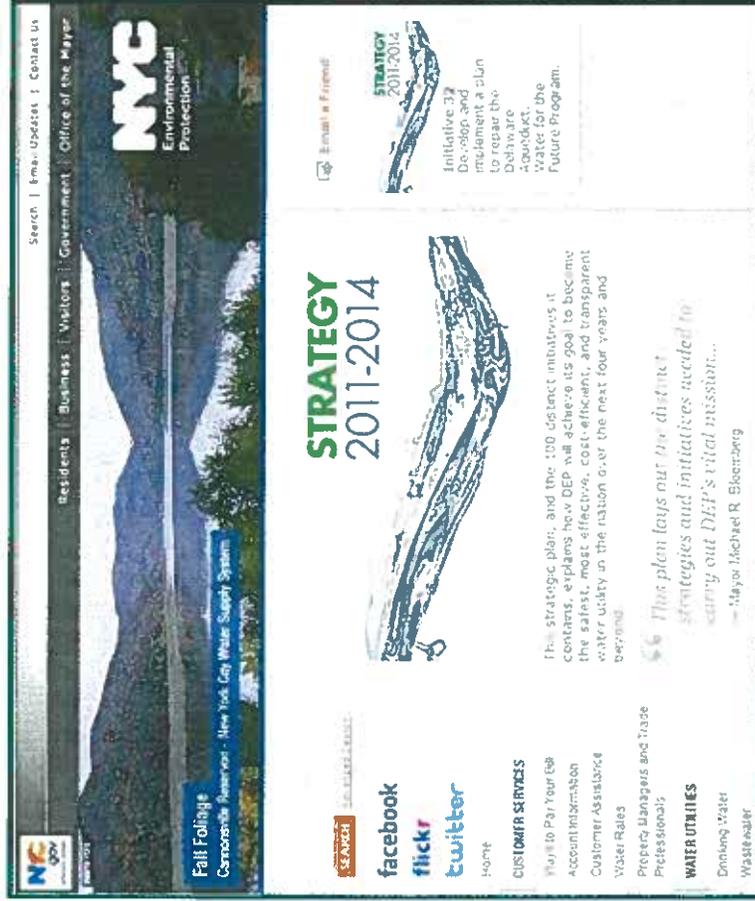
- ❖ Addressed billions of dollars in unfunded Federal mandates, including:
 - Eliminated and deferred \$3.4B for handling combined sewer overflows by replacing costly gray infrastructure projects with environmentally-sound green projects
 - Deferred \$1.6B construction of Hillview Reservoir cover to 2023
- ❖ Settled long-standing labor issues through productivity gains
- ❖ Reducing operating costs and transforming our management of the complex water and sewer system through OpX; initiatives already implemented will result in \$5M of savings in FY 2013, with more to come



DEP's Mission



DEP must supply, deliver, and treat the water 9 million New Yorkers need every day; protect and improve the waters that surround us, the air we breathe, and New Yorkers' overall quality of life.



❖ 100 Strategies and Initiatives to achieve this mission in 4 core areas:

- Serving 9 million customers
- Operating the safest, highest-performing water utility at the lowest possible cost
- Building capital projects on time and on budget
- Delivering clean waters, clean air and a sustainable quality of life for all New Yorkers

- ❖ Of the plan's 100 initiatives, **63 have been fully or partially achieved** in the first year and 36 are on track*
- Customer Service:**
 - ❖ Launched Leak Notification Program alerting customers to deviations from normal consumption rates
 - 135,000 customers enrolled: *My DEP Account* holders of small properties have been automatically enrolled; large buildings added this year
 - In FY 2012 YTD, approximately \$10M in leak-related charges have been avoided by DEP's customers as a result of early leak detection
 - ❖ Launched online Water and Sewer Permitting System

- Worker Safety:** Ensure safe conditions for DEP's nearly 6,000 employees
 - ❖ Reduced total recordable workplace injuries and illnesses by 42%
 - ❖ Developed EH&S Performance Metrics to evaluate compliance with regulations, provide risk assessments and foster continuous improvements
 - ❖ Implemented Training Tracking and Reporting System and computer-based training

* One initiative (#33: Pressurize the Catskill Aqueduct) was deferred to redirect capital resources to *Water for the Future*

Strategy 2011-2014 – Progress

Operations: Manage System of 19 reservoirs, 295 miles of aqueducts, 6,600 miles of water mains, 7,400 miles of sewers, 965 water quality monitoring stations, 109,000 fire hydrants, 144,000 catch basins & 14 in-City wastewater treatment plants

- ❖ Managed System in preparation for, during and after Hurricane Irene and Tropical Storm Lee
- ❖ Quickly addressed fire at North River Wastewater Treatment Plant and restored full-treatment operations
- ❖ Certified Newtown Creek Wastewater Treatment Plant meets federal Clean Water Act standards for secondary treatment two years ahead of schedule
- ❖ Improved repair time of high-priority fire hydrants to 5.9 days in 2011 from 7.5 days in 2010 through partnership with New York City Fire Department
- ❖ Launched H2OStat real-time performance assessments based on 200+ indicators
- ❖ Created Capacity, Management, Operations and Maintenance (CMOM) group to enhance the capabilities of sewer maintenance crews by providing additional engineering, investigative and analytical support

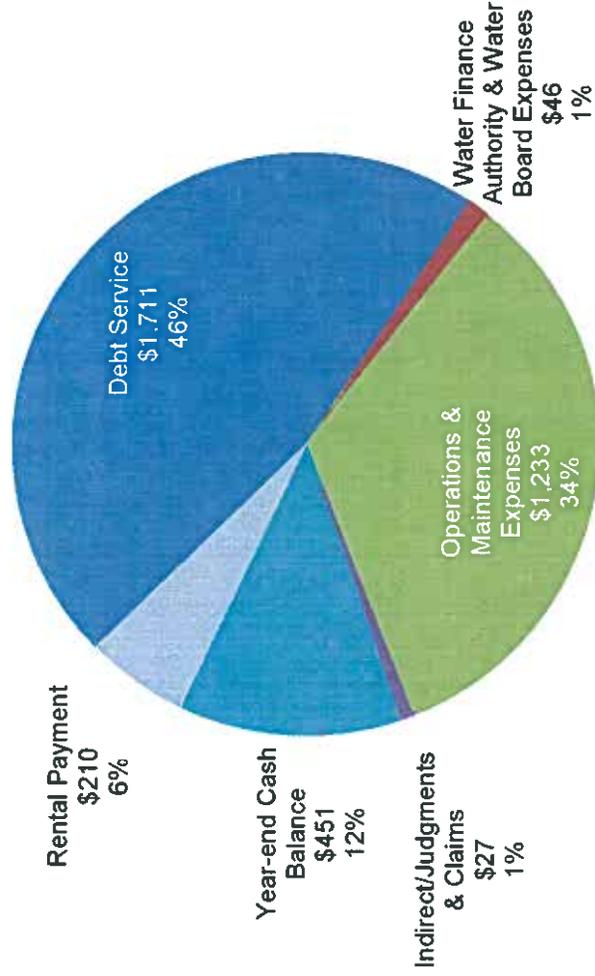
Capital: Current projects total \$11B in construction and \$3B planning and design

- ❖ Completed Project Management Information System to manage and control project schedules and budgets and make data viewable online
- ❖ Created internal Project Controls Division to maintain and expand control systems and support project teams in budget and schedule management
- ❖ Developed a 10-year capital plan prioritizing funding for critical assets
- ❖ Completed vertical asset business cases

Sustainability: Promote public health, economic development and quality of life in New York City through sustainable environmental policy and regulation enforcement

- ❖ Signed a draft consent agreement with New York State Department of Environmental Conservation to adopt the NYC Green Infrastructure Plan into Clean Water Act compliance
- ❖ Established the Office of Green Infrastructure and awarded \$3.8M in Green Infrastructure grants
- ❖ Encouraged ecological restoration of oysters and mussels in Jamaica Bay

FY 2012 Budget



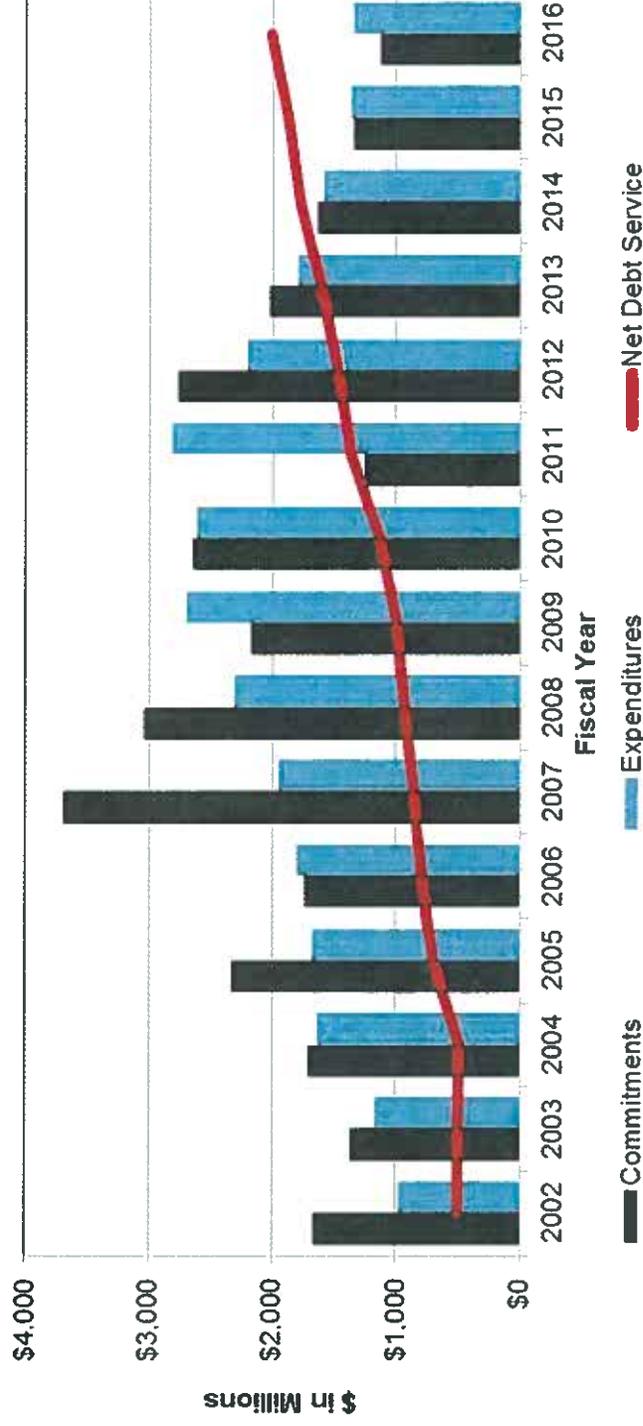
Total: \$3,679M

Financial Outlook through 2012 (\$M)	FY 2012 Plan	FY 2012 Forecast	Change	%
Consumption (MG)	370,685	371,378	693	0%
Revenue*	\$3,231	\$3,266	\$35	1%
Operations & Maintenance**	\$1,280	\$1,307	\$27	2%
Debt Service & Debt Retirement***	\$1,652	\$1,711	\$59	4%
Rental Payment	\$237	\$210	(\$27)	-11%

* Revenue is FY 2012 Revenue only and does not include funds carried forward from the prior year
 ** Operations & Maintenance is the sum of the chart's "Operations & Maintenance Expenses", "Water Finance Authority & Water Board Expenses" and "Indirect/Judgments & Claims"
 *** Debt Service includes \$235M of cash retirement of bonds in FY 2012 Forecast

Past Capital Costs, Current Debt Service

- ❖ There is a time lag between commitments and expenditures; debt is issued as expenditures are incurred
- ❖ From \$24.4B of commitments made from FY 2002 to 2012, expenditures have totaled \$21.9B and net debt issuance is projected to total \$19.2B in the same period
- ❖ Annual net debt service increased by 176% between FY 2002 and FY 2011 and is projected to increase by \$107M or 8% in 2012
- ❖ In future years, even though annual commitments and expenditures decrease, annual net debt service continues to rise



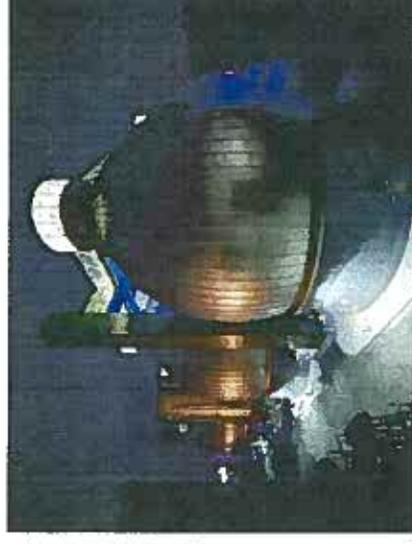
Legal Mandates Cost Homeowner \$253 This Year **NYC** Environmental Protection



Croton Filtration Plant



Catskill/Delaware UV Disinfection Facility



Newtown Creek Wastewater Treatment Plant

Mandate	Capital Cost (\$B)	Annual Debt Service Impact (\$M/year)	Annual Household Cost (\$/year)
Croton Filtration Plant	\$3.2	\$160	\$48
Ultraviolet Disinfection Plant	\$1.6	\$80	\$24
Newtown Creek Treatment Plant	\$5.0	\$250	\$75
All Other	\$7.1	\$355	\$106
Total	\$16.9	\$845	\$253

❖ The annual cost for typical commercial and industrial customers is \$3,160 and \$316,003, respectively

Capital Outlook

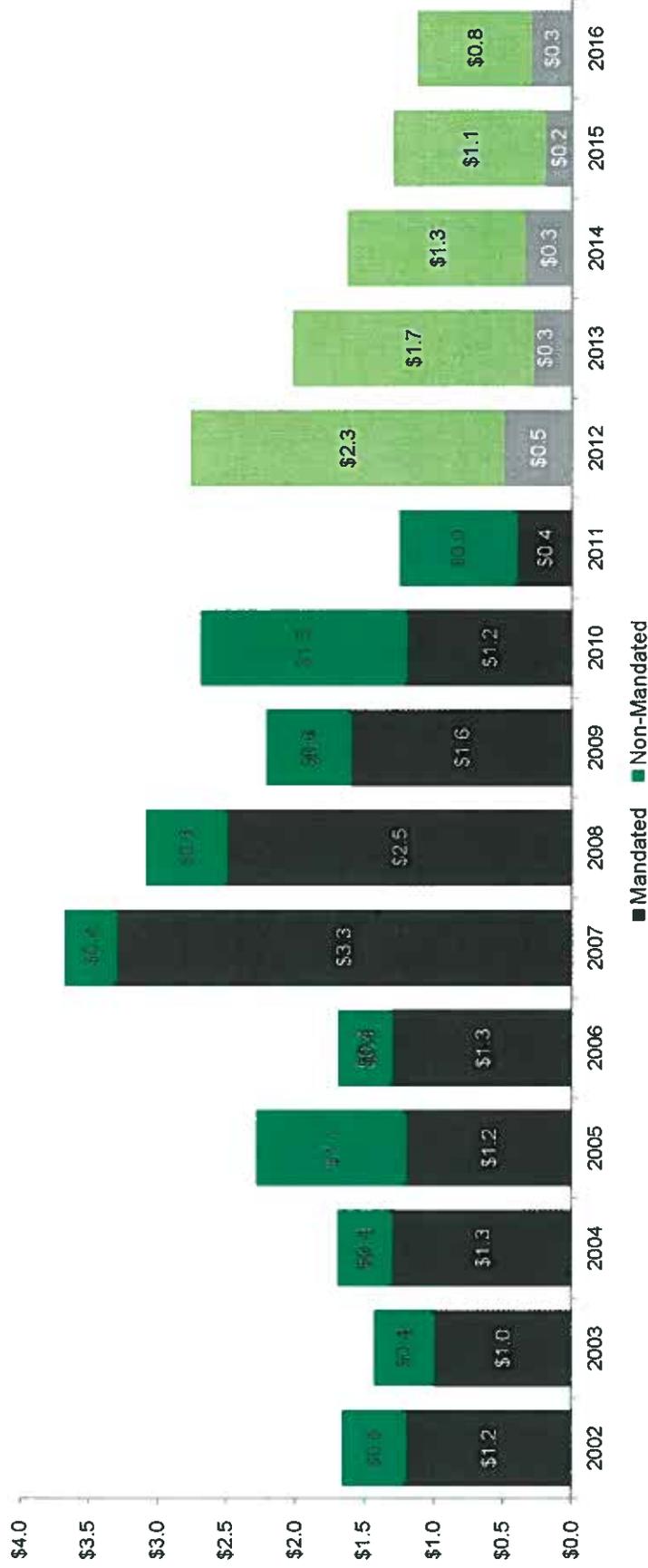


- ❖ \$15B (69%) of capital commitments for FY 2002 to 2011 were driven by mandates
- ❖ DEP has been successful working with regulators to reduce future mandates

Capital Outlook FYs 2007—2016

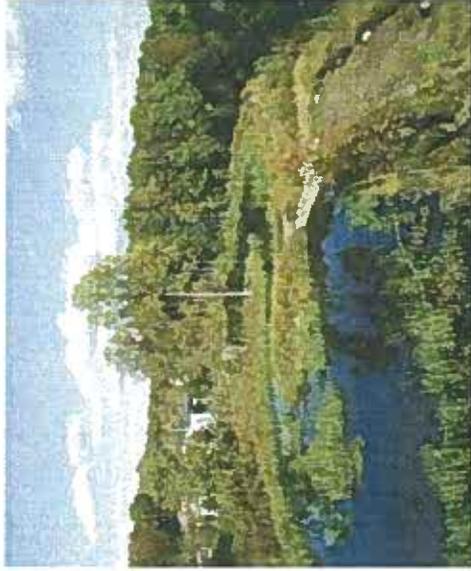
(\$ in billions)

FY	Total										
2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2016	
\$3.7	\$3.1	\$2.2	\$2.7	\$1.3	\$2.8	\$2.0	\$1.6	\$1.3	\$1.1	\$1.1	\$21.8



DEP's Capital Priorities 2012-2016

- ❖ Initiate Green Infrastructure related projects (\$187M)
- ❖ Complete sewer connections in Queens (\$396M) and Staten Island (\$380M)
- ❖ Bring Bluebelts to southeast Queens to naturally control stormwater (\$29M)
- ❖ Initiate Staten Island siphon construction (\$250M)
- ❖ Complete connections to City Water Tunnel No. 3 (\$898M)
- ❖ Complete repairs to the Manhattan Pump Station (\$227M)
- ❖ Continue planning for Delaware Aqueduct repair – *Water for the Future* (\$2.1B*)



Staten Island Bluebelt



Connections to Water Tunnel No. 3



Shaft Connections for Delaware Tunnel Repair –
Water for the Future

* \$2.1B is the total projected cost for *Water for the Future*, including design and construction, as well as alternative sources and conservation measures

Projected FY 2013 O&M Changes

Significant Reductions

- ❖ OpX initiatives regarding chemical usage, sludge processing, vehicle maintenance and re-negotiating DEP contracts for \$10M in savings in FY 2013

Self-Funded Items

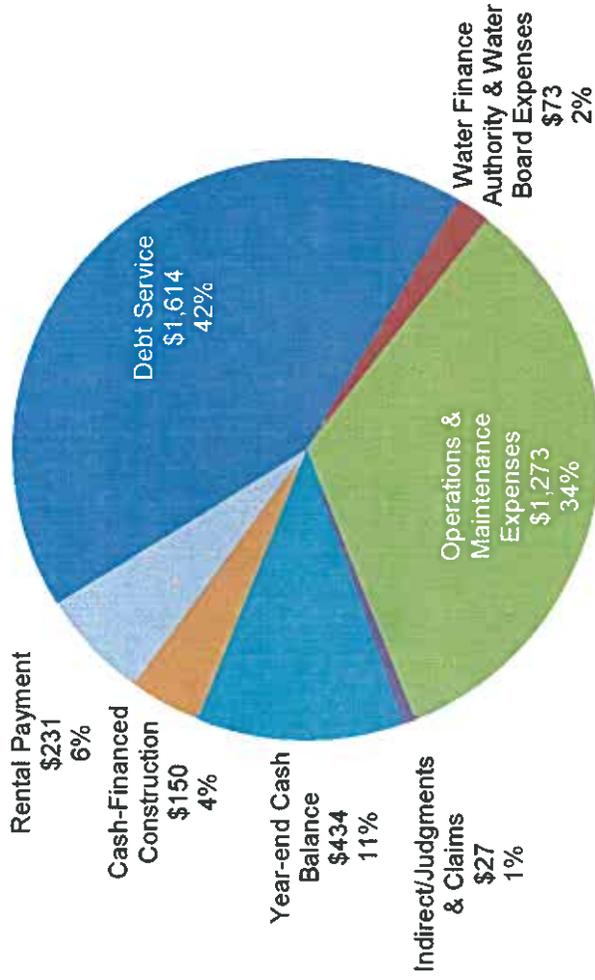
- ❖ Reduced various contracts, including maintenance services and meter reading, to self-fund new needs such as secondary treatment at the Newtown Creek wastewater treatment plant and shaft maintenance for City Water Tunnel No. 3 connections

New Needs

- ❖ Croton Water Filtration Plant and Catskill/Delaware UV Disinfection Plant, including security for both facilities (59 positions; \$16.1M)
- ❖ Costs for chemicals and watershed property taxes (\$15.6M)
- ❖ Heat, light and power increase as a result of changes to NYPA's rate structure (\$7.7M)
- ❖ Fixture program for water conservation (\$10.0M)
- ❖ Capacity Management and Operations Maintenance (CMOM) for a system-wide sewer cleaning program to reduce sewer back-ups and combined sewer overflows (\$4.8M)

Financial Outlook for FY 2013

Total: \$3,802M



Financial Outlook through 2013 (\$M)	FY 2012 Forecast	FY 2013	Change	%
Consumption (MG)	371,378	365,807	(5,571)	-2%
FY Revenue*	\$3,266	\$3,350	\$84	3%
Operations & Maintenance**	\$1,307	\$1,373	\$67	5%
Debt Service & Debt Retirement***	\$1,711	\$1,614	(\$97)	-6%
Rental Payment	\$210	\$231	\$21	10%

* FY Revenue is current year revenue only and does not include revenue carried forward from prior year

** Operations & Maintenance is the sum of the chart's "Operations & Maintenance Expenses", "Water Finance Authority & Water Board Expenses" and "Indirect/Judgments & Claims"

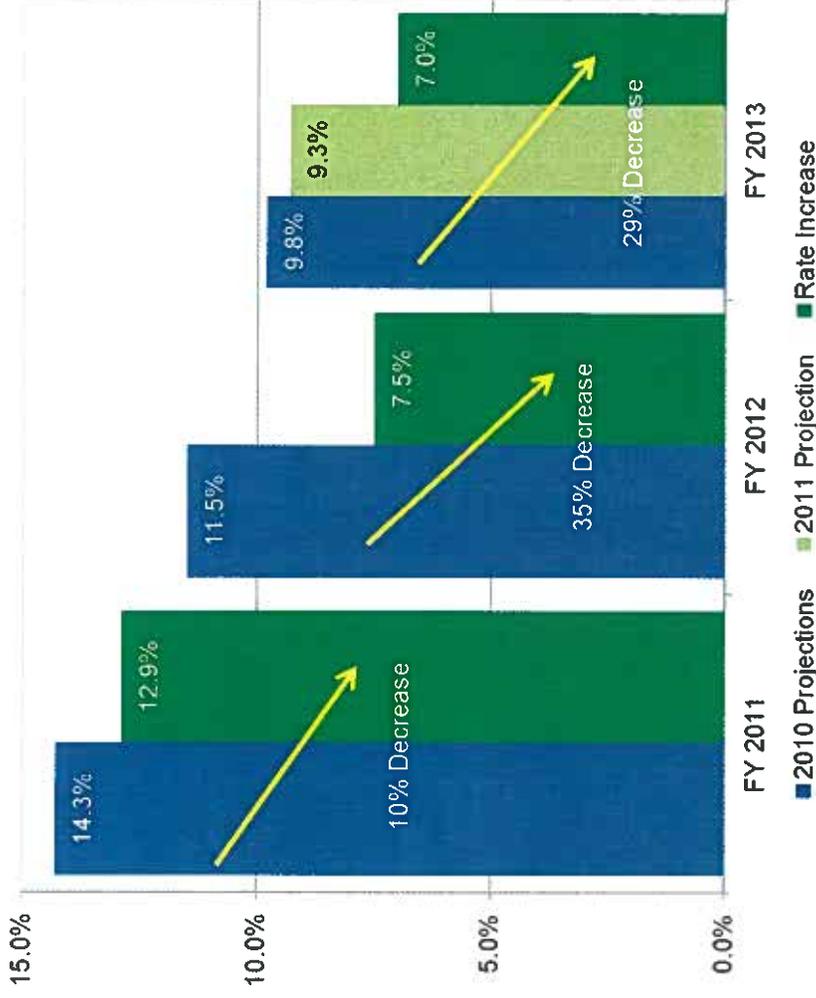
*** Debt Service includes \$235M of cash retirement of bonds in FY 2012 Forecast

Proposed Rate Increase

Rate Model - Cost/(Revenue) (\$M)	FY 2012 Forecast	FY 2013
Debt Service	\$1,476	\$1,614
Cash-financed Debt Retirement or Capital Construction	\$235	\$150
Operations & Maintenance	\$1,307	\$1,373
Rental Payment	\$210	\$231
Total System Costs	\$3,227	\$3,368
Cash on Hand	\$452	\$434
Revenue Requirement	\$3,679	\$3,802
Prior-year Carryforward Revenue*	(\$413)	(\$452)
Upstate & Other Non-City Revenue	(\$199)	(\$208)
In-City Revenue Need	\$3,067	\$3,142
Prior-year Revenue		\$3,067
Consumption Decrease & Frontage Conversion		(\$130)
Net Revenue at Prior Year's Rate		(\$2,937)
Additional Revenue Required		\$205
Rate Increase Required		7%

* Includes carryforward of \$36.3M as offset to Operations & Maintenance in FY 2012 Forecast

FY 2013 Rate Proposal Summary



- ❖ Proposing **7%** rate increase
- ❖ Lowest rate increase in 7 years
- ❖ 29% lower than 2010 projection of FY 2013 rate increase

	FY 2012	FY 2013 (7% Increase)
Combined Water & Sewer Rate (per hundred cubic feet)	\$8.21	\$8.78 (\$0.57)
Average Annual Single Family Charge (80,000 gal)	\$877	\$939 (\$62)
Average Annual Multi-family Charge (52,000 gal)	\$571	\$610 (\$39)

Borough Rate Hearing Schedule

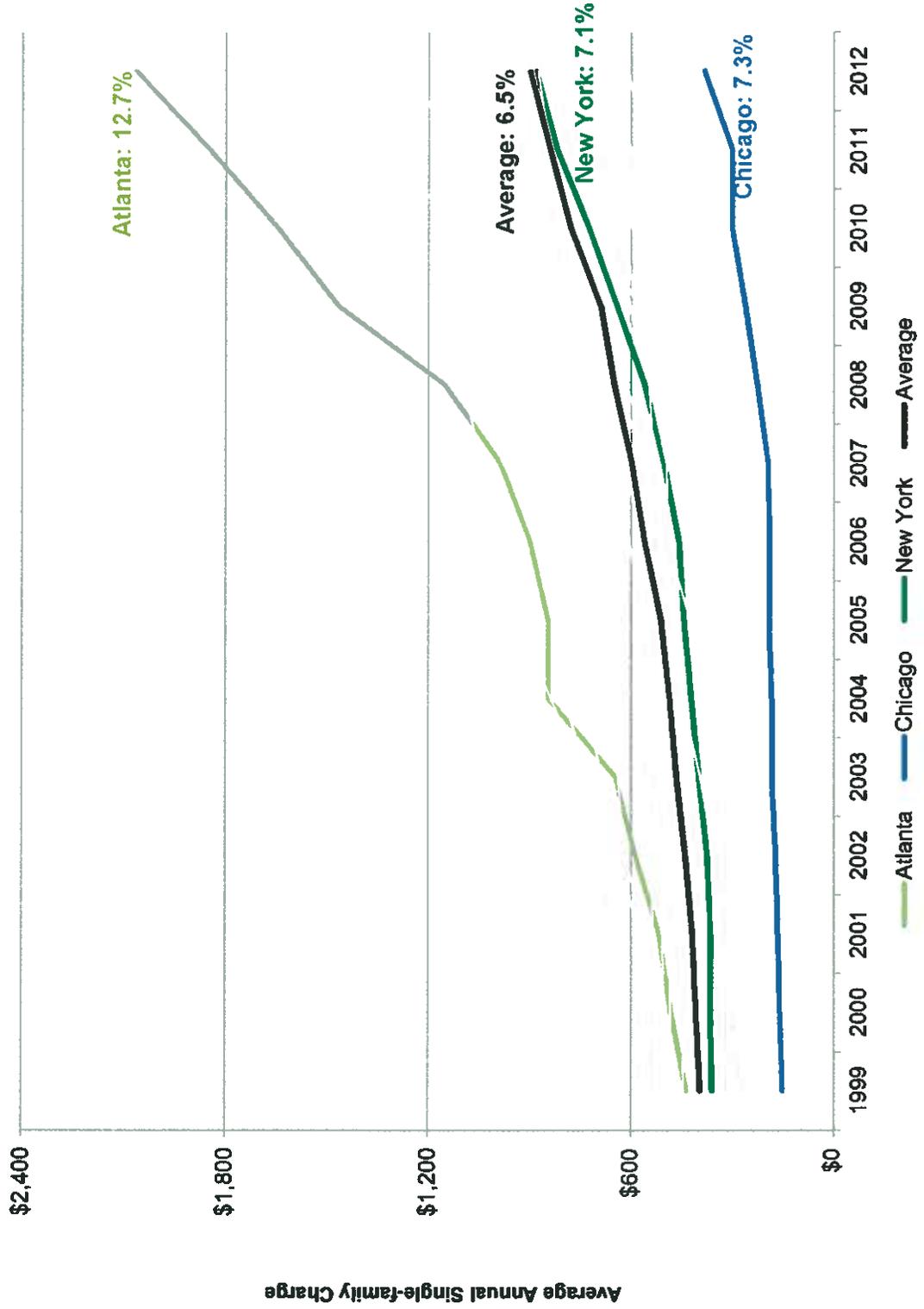


Borough	Date	Location	Time
Staten Island	April 23	New Dorp High School 465 New Dorp Lane	7:30 pm
Brooklyn	April 24	P.S. 222 Kathryn R. Snyder School 3301 Quentin Road	7:00 pm
Bronx	April 25	Riverdale YM-YWHA 5625 Arlington Avenue	7:00 pm
Queens	April 26	Christ the King High School 68-02 Metropolitan Avenue Middle Village	7:00 pm
Manhattan	April 27	City Planning Department - Spector Hall 22 Reade Street, 1st Floor	1:30 pm



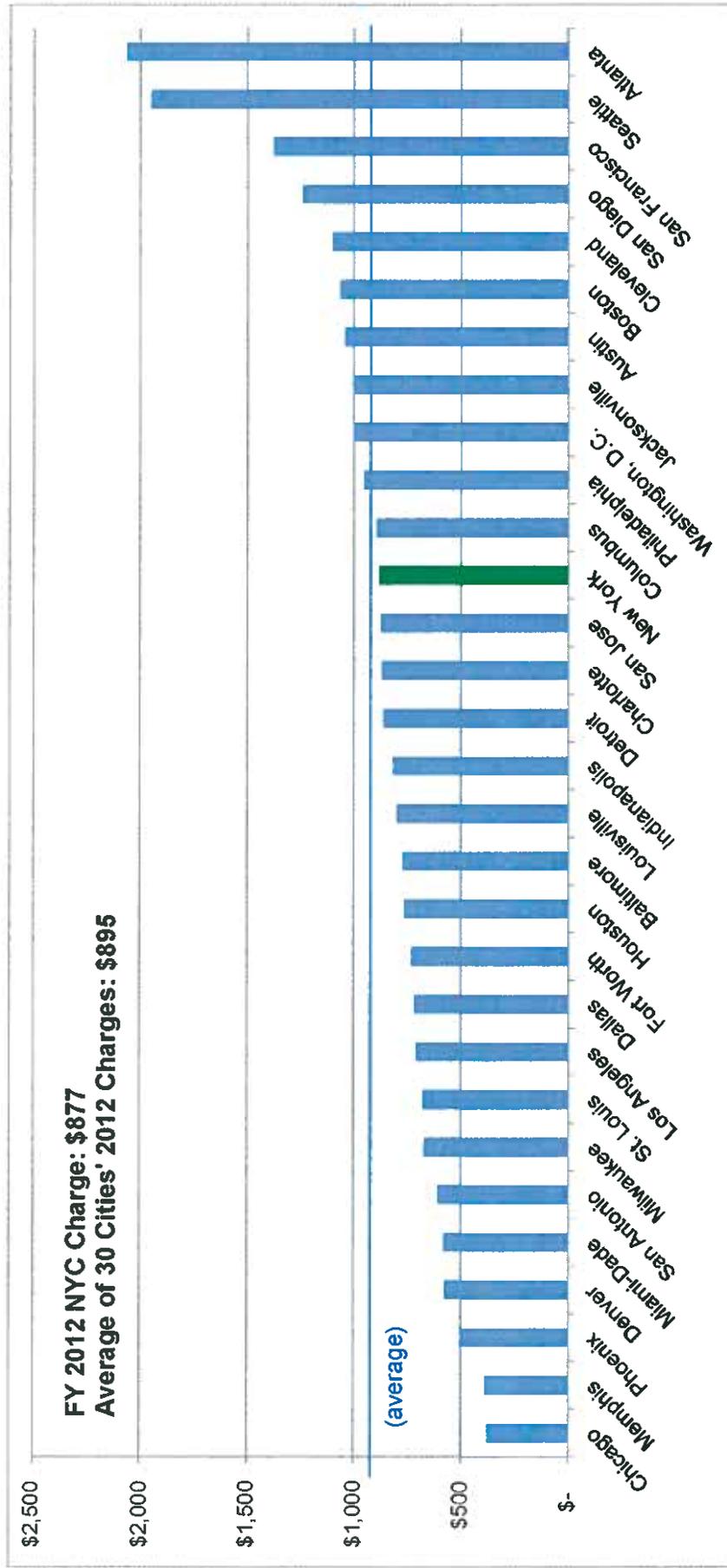
Appendix

Rate Trends in Major Cities



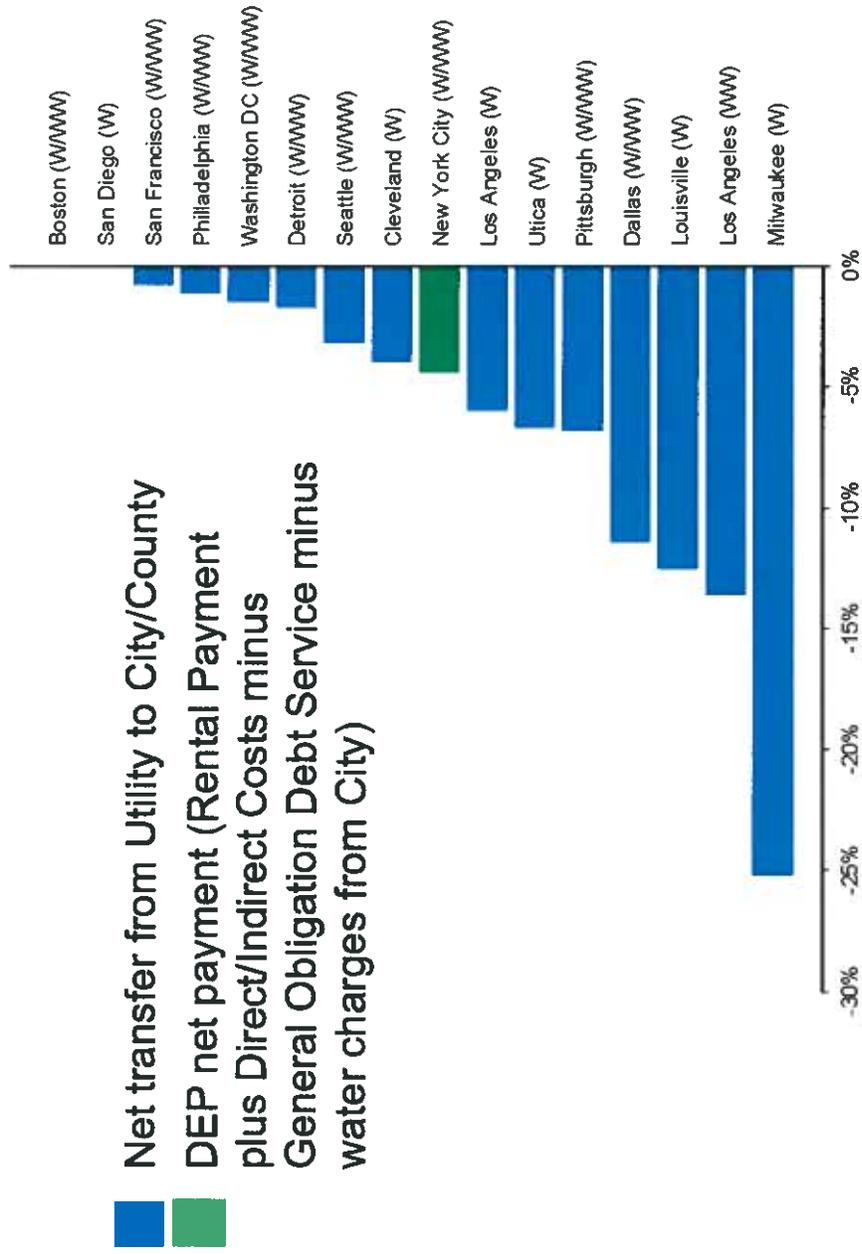
All estimates based on consumption of 80,000 gallons per year

Annual Water/Wastewater Charges



All estimates based on consumption of 80,000 gallons per year at rates in effect February 1, 2012

Annual Intergovernmental Payments



Note: Payments from Boston and San Diego to Utility exceed Utilities' payments to their respective cities.

Testimony of Carter H. Strickland, Jr.
Commissioner, New York City Department of Environmental Protection
New York City Council Committees on Environmental Protection and Finance
FY 2013 Executive Budget
May 14, 2012

Good afternoon, Chairman Gennaro, Chairman Recchia and Members. I am Carter Strickland, Commissioner of the New York City Department of Environmental Protection (DEP). I am joined today by Steven Lawitts, DEP's Chief Financial Officer, Joseph Murin, DEP's Assistant Commissioner for Budget, and other senior managers. Thank you for the opportunity to testify on the Fiscal Year 2013 Executive Budget.

Through prudent cost-cutting, improved transparency and efficiency, and targeted advocacy for regulatory reform, we are doing everything we can to keep water bills low for the 836,000 customers that we serve. At the same time, we must ensure the delivery of clean, reliable water when New Yorkers turn on their taps, limit flooding, and remove pollutants from 1.3 billion gallons of wastewater generated every day. To provide these essential services, we must have adequate resources to run a system that includes 19 reservoirs, 295 miles of tunnels and aqueducts, 14,000 miles of water and sewer mains, and 22 wastewater treatment plants.

DEP's continuing commitment to operate more efficiently, stretch every capital dollar as far as it can go, and make critical water and wastewater investments on a timeframe that New Yorkers can afford is demonstrated by the fact that we were able to reduce the recently adopted rate increase to 7.0% from the 9.3% that we had forecast. The 7.0% increase for Fiscal Year 2013 (FY13) is the lowest in seven years, and our rates continue to be below the national average. Though rate increases are difficult during tough economic times, we are moving in the right direction and maintaining the high standard of services for New Yorkers. DEP's efforts to improve service delivery will continue. We expect our Operational Excellence program (OpX) initiatives regarding chemical usage, sludge processing, vehicle maintenance and re-negotiating DEP contracts to result in \$10 million in recurring savings starting in FY13, with additional recurring savings to start in later years.

As a part of our commitment to providing the highest level of customer service, we have substantially completed the installation of our Automated Meter Reading (AMR) network. AMR provides customers with readings on a daily basis, so customers can take control of their water and sewer bill by identifying costly leaks and waste. A total of 166,000 customers representing 187,000 billing accounts have signed up for access to our AMR network through nyc.gov/dep to date and I request that you urge your constituents to take advantage of this improvement in our system.

As a result of AMR, we have reduced the number of estimated bills issued year-to-date compared to 2010 by 65%. And fewer estimated bills mean fewer pieces of correspondence and higher collection rates. We have seen a 19% decline in fiscal year-to-date billing appeals compared to fiscal year 2008, prior to the installation of AMR.

For those unwilling to pay their fair share, we have used our lien sale authorization over the past four years to collect \$367 million from delinquent customers prior to sale, helping to keep rates lower during an unprecedented period of unfunded mandates. Our partnership with the Council on more outreach events, 0% down payment and 10-year payment agreements have resulted in a large reduction in the number of customers heading into the final sale. In comparison to 2011, at the 10-Day mark this year we are observing a 39% decline in the number of accounts, from 9,180 to 5,628, and a 48% decline in the amount of arrears from \$97.8 million to \$50.4 million.

Because single-family homes are not included in the lien sale, and the cost of service line shut-offs often exceeds the amount owed, we have identified an alternative collection method. DEP will work with a collection agency to increase our collection rate among our most delinquent customers, including single-family homeowners, while controlling costs. We expect to enter into a contract with Municipal Services Bureau, a private collection agency, by the start of FY13. The firm will focus on single-family homeowners and be paid on a flat fee. At the end of a formal process, the collection agency will conduct credit reporting for customers who fail to pay. Doing so will allow us to increase our collection rate and reduce the burden of forecast rate increases in the years ahead.

Additionally, for the first time ever, the city has agreed to institute a pilot program to cap the rental payment at the FY11 annual rate of \$196 million, adjusted yearly for inflation, for the next three fiscal years. This step will save approximately \$98 million from FY13 through FY15. This equates to a projected savings of \$14 million in FY13, \$32 million in FY14, and \$52 million in FY15. The returned funds will be used to mitigate future rate increases and invest in other programs like green infrastructure. Many municipal water and wastewater systems make payments to their general funds for city services, such as police, fire and sanitation—and the size of DEP's payment, even before this pilot, is well within the normal range of what other municipalities pay. The value of the rental payment is based on annual debt service payments and is critical to the financial stability of the system, which has allowed us to finance improvements at low interest rates.

Just after the Preliminary budget hearing in March we released the 2011 progress report on DEP's Strategy 2011-2014, which offers a roadmap to accomplish our goals for our customers; as a water and wastewater utility; as the manager of one of the largest capital programs in the region; and as the City agency charged with protecting water and air quality, and improving New Yorkers' quality of life. In the Strategy's first year, 63 initiatives have been fully or partially achieved while 36 are on track to be completed on schedule. We've already saved customers \$10 million through our Leak Notification Program, secured the ban of hydraulic fracturing in the watershed, and committed to a \$1.5 billion green infrastructure program over 20 years by signing a draft modified consent agreement with the New York State Department of Environmental Conservation (DEC). In addition, we have enhanced customer service by initiating the development of a service line protection program, launching an online Water and Sewer Permitting System for businesses, engineers and contractors, and by simplifying the Community Right-to-Know online reporting process.

In Operations, we certified that the Newtown Creek Wastewater Treatment Plant (WWTP) meets federal Clean Water Act (CWA) standards for secondary treatment two years ahead of schedule, lowered repair time of high-priority fire hydrants to an average of 5.9 days from 7.5 days in 2010 through a new partnership with the New York City Fire Department, expanded recreational boating access to Neversink, Pepacton and Schoharie Reservoirs and opened 6,765 acres of watershed land for recreational use.

Capital milestones include the completion of the Project Management Information System to manage and control project schedules and budgets and make relevant data viewable online, the creation of an internal Project Controls Division to maintain and expand control systems as well as support project teams in budget and schedule management, and the development of a 10-year capital plan prioritizing funding for critical assets.

We have reduced total recordable workplace illnesses and injuries by 42% year-to-date.

Finally I am proud to say that we have reached three noteworthy Sustainability milestones:

- we signed a draft consent agreement with DEC to adopt the NYC Green Infrastructure Plan into CWA compliance;
- we established the Office of Green Infrastructure and, including 2012 awards, awarded \$8.4 million in Green Infrastructure Grants (with an additional \$4.2 million provided by landowners); and,
- we started the process of revising the City Air and Noise Codes by holding stakeholder meetings throughout the five boroughs.

In the past year, we have also successfully convinced our regulators to defer or eliminate more than \$5 billion in unfunded mandates. This includes \$3.4 billion in canceled or deferred tanks or tunnels for CSO controls. We have also convinced the federal government to delay until 2023 a mandate to build a \$1.6 billion cover on the Hillview Reservoir in Westchester to protect water quality in a way that could be done at a fraction of the cost. DEP will continue to stress that this project should be eliminated outright. Because of these and other initiatives, only 20% of the Executive Four-Year Capital Plan is for mandated projects, a reversal of the past decade's trend.

I will now turn to the Executive expense budget.

Executive FY 2013 Expense Budget

The Preliminary expense budget for FY13 was \$1.020 billion. The Executive expense budget for FY13 is \$1.134 billion, an apparent increase of \$114 million. However, the net expense budget increase is \$81 million, due to an adjustment to the heat, light and power budget for natural gas to be used at the soon to be opened Catskill Delaware Ultra-Violet Disinfection Plant. This will be adjusted with the Office of Management and Budget. The calculation of the need for the rate increase was based on the adjusted figure of \$81 million.

The \$81 million net increase in the expense budget masks many of the savings initiatives that DEP has undertaken that kept this budget increase, and thus the rate, from being even higher. I

set a target of a 4% budget reduction across DEP, the equivalent of \$37 million, to take effect in FY13. I think it is a credit to DEP that we were able to exceed that target, achieving \$41 million in budget reductions. The most significant reductions were:

- \$12 million from reduction to our heat, light and power costs;
- \$6 million from biosolids disposal savings due to contracts for beneficial re-use coming in competitively priced against landfilling;
- \$6 million from personnel and operating expenses that are improving the System's assets and thus are eligible for capital spending; and
- \$5 million from chemical savings due to the reduction in fluoride dosage and re-negotiated prices.

Still, on balance, the Agency's budget did go up by \$81 million, comprising the following Executive budget increases:

- \$10 million for increases to upstate property taxes, going up to \$153 million a year, one of our most significant operating expenses;
- \$8 million net increase for heat, light and power (after the above-mentioned adjustments), for new facilities coming on line, such as the Croton Water Filtration Plant and the Cat-Del UV Plant, and for the upgrades to facilities, such as the Newtown Creek Wastewater Treatment Plant;
- \$8 million net increase for chemicals, even after \$5 million in renegotiated savings, due to increased usage required at the new plants and other processes, as well as price increases;
- \$5 million for the Croton and Cat-Del UV in addition to chemicals and heat, light and power, which is necessary for personnel, and maintenance and service contracts;
- \$2 million for the continued implementation of the City's Green Infrastructure Plan to purchase, install, and maintain green infrastructure components (but overall, this plan will result in savings of approximately \$2.4 billion over 20 years);
- \$6 million for DOITT Intra-City Telecomm, software licenses, and to NYCWiN for AMR services;
- \$5 million for the new Capacity, Management, Operations and Maintenance (CMOM) group to enhance the capabilities of sewer maintenance crews by providing additional engineering, investigative and analytical support and to continue our shift from reactive to proactive maintenance, which should lead over the long term to both improved performance and avoided costs for overtime, emergency construction, insurance premiums, and lawsuits;
- \$13 million for the voucher program for fixture replacements and for other related expense items, such as studies and site assessment, to advance DEP's multi-billion Delaware Aqueduct repair and Water for the Future program; and
- \$12 million for mandated programs or projects such as the Filtration Avoidance Determination (FAD) for our Catskill/Delaware watershed, the Jamaica Bay Environmental Benefit Fund, Parks-related improvements in connection with the Croton plant, and fines related to using the Ashokan release channel during Hurricane Irene and Tropical Storm Lee.

In an effort to limit the 2013 water-rate increase, DEP will reallocate 55 budgeted positions, moving them to high priority tasks that include shaft maintenance and the CMOM program in the Bureau of Water & Sewer Operations, and to computer programming functions within DEP's Office of Information Technology.

We will also reallocate \$26.5 million within our OTPS budget. Cost savings from our new sludge disposal contract and our cancellation of the Con Ed water meter reading contract will be used to offset the funding shortfall in DEP's operations including wastewater treatment plant maintenance contracts and security guard services.

The Executive expense budget also includes:

- \$6.1 million in rollovers, which are one-time carryovers into the following year of anticipated expenses that were not incurred;
- \$3.8 million to fund a contract with IBM to provide overall technical assistance to the Bureau of Customer Services in order to ensure continued quality assurance and operation of the billing system, which includes updating and maintaining the billing system to current databases and platforms; and
- \$3.2 million for Superfund, to be dedicated primarily to the Remedial Investigation and Feasibility Study at Newtown Creek.

Executive FY2013-FY2016 Four-Year Capital Plan

In general, we have been able to reduce mandates from 70% of our capital budget to less than 20% going forward. That means that we have the ability to spend on much needed drainage projects, largely in Queens and Staten Island. In total, the Executive Four-Year Plan shows \$997 million in FY13-FY16 for investments in the sewer system. In addition, we are able to increase our spending on keeping our plants and other facilities in a State of Good Repair, which will prevent more expensive upgrades later on. The Executive budget includes \$1.9 billion for State of Good Repair projects. Many of these will be done through our Job Order Contract (JOCs) program, which is structured so that smaller capital repairs can be designed and built on a short schedule. The flexibility of the JOCs program is very helpful to keeping our costs down.

I will now turn to the variances between the Preliminary and the Executive Four-Year Capital Plan. The total variance in the four year plan is an increase of \$489.6 million. A majority of this increase is due to projects that will not commit in FY12 that were rolled over to FY13.

There are variances totaling \$27.3 million on contracts for the City Water Tunnel No. 3 connection work, which is Department of Design and Construction work on water mains.

There is a reduction of \$93.8 million, \$75 million of which is for the toilet replacement program, a conservation initiative associated with the Water for the Future project, because the capital eligibility of this project is under discussion. For the time being, this program is funded in the expense budget. There is also a reduction of \$18 million in OIT; this excess funding was allocated elsewhere in the capital budget.

There is a reduction of \$98.6 million for projects budgeted for the Water for the Future project. This funding is being deferred from the FY13–FY16 Four Year Capital Plan to out years to reflect a more refined construction schedule. The Catskill Optimization project is being deferred from FY14 to FY17 at the amount of \$74.5 million so that it will occur in tandem with the tunnel construction, and an additional project for \$24.1 million is also being deferred. The Bureau of Water supply will assess the proper timing of these projects in the upcoming FY14 Preliminary Ten-Year Plan.

Since the activation of the Brooklyn leg of City Water Tunnel No. 3 is delayed until Shafts 17B and 18B are constructed, the Brooklyn / Queens leg will require maintenance and security until activation. A total of \$15 million is to provide for the next contract, as the current tunnel contract is expiring.

Various FAD funding needs of \$40.8 million, such as the Catskill Watershed Corporation, land acquisition and septic replacement program, were brought into the FY13–FY16 window in accord with the expected new agreement and for the planned contract registrations.

For the Bureau of Wastewater Treatment’s state of good repair program, a total of \$96.8 million has been added. Projects include \$29.2 million for the 26th Ward WWTP primary settling tanks, which are part of the Jamaica Bay CSO Order; \$24.7 million for the stabilization program at the Jamaica Bay WWTP; \$22 million to reconstruct the digester roofs at 26th Ward; \$6.7 million for stabilization at Tallman Island WWTP; \$6.3 million for the Bowery Bay Phase III upgrade; \$6 million for construction management for various projects; and the balance of \$2 million for various capital projects.

Additional change orders for the continued completion of the work at the Croton Filtration Plant are budgeted for \$68.6 million. This includes \$52 million for construction and \$16.6 million for park-related work.

Finally, for specific sewer and water main work by DDC, \$42.4 million for water main replacement in Queens, \$12.6 million for water main work in various locations, \$16.3 million for new storm sewers and water main replacement in Acacia Avenue and other locations, and the balance of other DDC-related work of \$173.5 million for a grand total of \$244.8 million.

With regard to the projects in each borough, in Queens, the Executive Four-Year Plan includes \$1.04 billion of spending for FY13-FY16. Significant projects include: \$50 million for dredging Flushing Bay; \$74 million for rehabilitating wells in the former Jamaica Water service area; \$71 million for regulators in Queens; \$56 million for main sewage pump work at the Bowery Bay WWTP, and \$226 million for sewers. Ninety-four million dollars is just for sewers in southeast Queens; and \$29 million of that is for high-level storm sewers in southeast Queens.

In Staten Island, the Executive Four-Year Capital Plan projects \$454 million in capital spending, \$337 million of which is for sewers. We are in the middle of the construction of the \$250 million new water tunnel (or “siphon”), which is funded with \$125 million of DEP funds and the remaining from the Port Authority. This project will provide critical redundancy in Staten Island’s water supply. We are continuing the \$248 million remediation of the closed Brookfield

Avenue Landfill, a joint City- and State-funded project. The City portion of the Brookfield costs is funded through general obligation debt. We are also continuing to build out the Staten Island Bluebelt, the award winning, ecologically sound, and cost-effective stormwater management for approximately one-third of Staten Island. For FY13-FY16, DEP budgeted \$70 million for obtaining more lands for the mid-Island Bluebelts.

In the Bronx, the Executive budget projects \$381 million of capital spending in FY13-FY16, including \$50 million for the installation of centrifuges at Hunts Point WWTP, \$33 million for the reconstruction of the Throgs Neck Pump Station, and \$61 million for upgrade of various water main projects.

In Manhattan, the Executive budget projects \$596 million in capital spending, including \$325 million to complete ten shaft connections to City Water Tunnel No. 3, as well as the water mains that will connect those shafts to the existing Manhattan water distribution system. This work is critical to turning on the Manhattan leg of City Water Tunnel No. 3 by 2013. In addition, \$50 million is provided for the installation of new centrifuges at Wards Island WWTP.

In Brooklyn, the Executive Budget includes \$638 million of commitments in FY13-FY16, of which \$89 million is for sewer and water main work in the Coney Island area. In addition, \$152 million is budgeted for work at the 26th Ward plant, plus \$50 million for new centrifuges at 26th Ward.

In closing, I want to emphasize that DEP's Strategic Plan, the NYC Green Infrastructure Plan, and PlaNYC demonstrate that the City is willing to improve our environment and public health in ways consistent with the goals of national environmental regulation and, where justified, to commit adequate resources to do so. We will continue to ask for the Council's help in reforming unfunded mandates. We need to make sure that state and federal regulations and initiatives complement and reinforce our efforts to make NYC a sustainable, environmental, and affordable place to live.

Thank you for the opportunity to testify on DEP's FY13 Executive Budget. I would be happy to answer any questions that you may have.

WM-11 Croton Water Treatment Plant
Cost Summary as of 4/30/2012

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-3120S-G	Picone-Schiavone, JV	\$96,842,500	\$28,449,016	\$125,291,516	29%	
CRO-3120S-E	Elder Electric	\$15,762,500	\$1,164,551	\$16,927,051	7%	
CRO-3120S-H	AWL Industries	\$822,000	\$56,971	\$878,971	7%	
CRO-3120S-P	JPP Plumbing	\$872,000	\$194,117	\$1,066,117	22%	
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	-\$6,787,681	\$205,439,319	-3%	
CRO-315G	Angelakis Construction Corp.	\$3,641,000	\$2,094	\$3,643,094	0%	
CRO-315E	Interphase Electric	\$807,317	\$143,948	\$951,265	18%	
CRO-312CE	Con Edison	\$4,074,526	\$0	\$4,074,526	0%	
TOTAL		\$2,145,688,588	\$219,235,514	\$2,364,924,102	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						
Rehabilitation of the New Croton Aqueduct Construction Management Costs (2)						
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%	

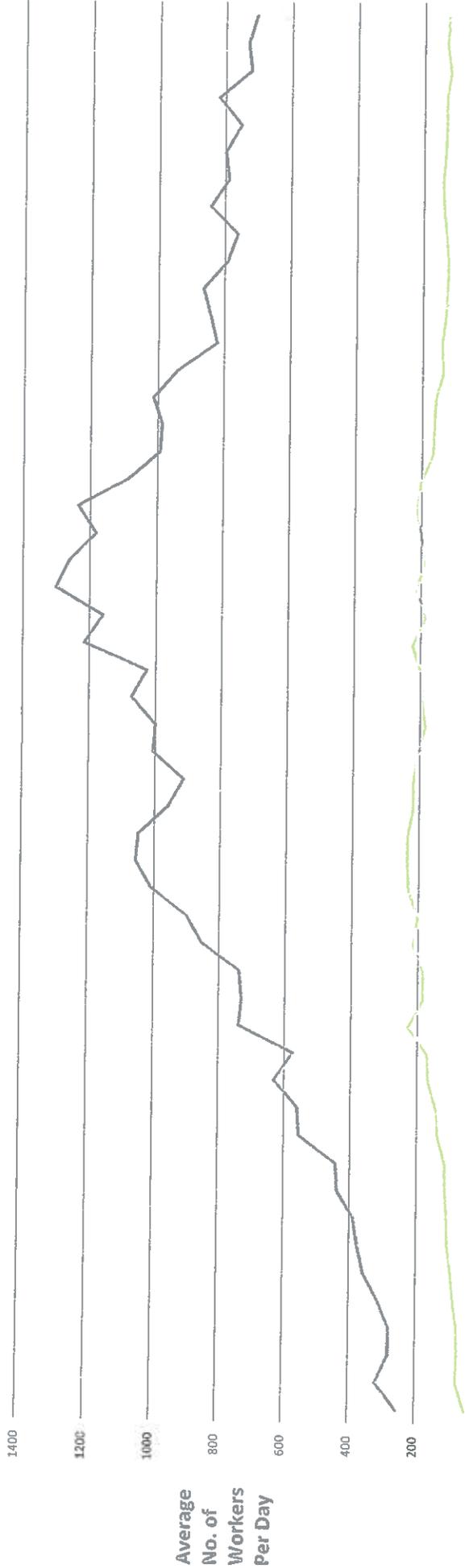
Notes:

- (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.

WM-11 Croton Water Treatment Plant
 Facility Monitoring Committee
Look-Ahead Schedule
 May 17, 2012

Task	Current Forecasted Completion Date	Apr-12				May-12				Jun-12				Jul-12				Aug-12
		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		
CRO-312 - Water Treatment Plant Co nstruction at Mosholu Site Water Main Work in Jerome and Bainbridge Avenues Sewer Work in Jerome and Bainbridge Avenues (to be started following Water Main Work) Entrance Driveway Site Utility Work (Intermittent) Furnish and install Equipment, Electrical, HVAC and Plumbing Work for Water Treatment Plant Checkout, Field Equipment Testing and Field System Testing	6/1/2012																	
	8/24/2012																	
	10/15/2012																	
	12/28/2012																	
CRO-312OS - Off-Site Facilities at Jerome Park Reservoir Ir and Gate House No. 1 Shaft and Meter Chamber & Yard Piping at Jerome Park Reservoir (including Emergency Bypass) Rehabilitation Work in Gate House Nos. 2, 3, 5, 6 & 7 (Intermittent) Rehabilitation Work in Gate House No. 1 (including construction of new stairs) Pipe Jacking through East Reservoir Wall Mosholu Pump Station Emergency Pipe Repair in Goulden Ave.	12/31/2012																	
	12/31/2012																	
	8/31/2012																	
	9/14/2012																	
	8/31/2012																	
CRO-312FM - Residuals Force Main to Hunts Point Restoration of Test Pits Along Original Force Main Route	7/31/2012																	
	6/1/2012																	
CRO-334 - Rehabilitation of New Croton Aqueduct Construction of Plug in New Croton Aqueduct Begin Startup and Testing of Water Treatment Plant Commence Operation of Water Treatment Plant Above Grade Architectural Work at DEP Area	12/28/2012																	
	6/27/2013																	
	12/14/2014																	

CROTON WATER TREATMENT PLANT AND OFFSITE FACILITIES AT JEROME PARK RESERVOIR



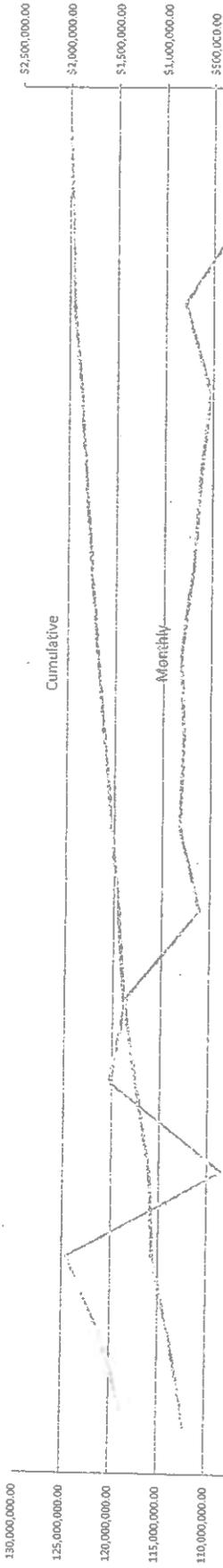
	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	
Bronx Workers	46	73	70	72	83	91	102	104	110	111	133	139	163	168	225	181	181	212	199	227	232	231	216	216	204	181	193	195	222	185	210	190	200	211	200	166	162	159	137	142	132	127	125	131	139	142	135	132	132	132	121	131	127
Total Workers	254	317	280	278	312	356	374	387	436	441	553	558	629	573	738	730	738	852	900	100	105	104	959	912	100	100	107	102	121	115	130	126	118	123	108	994	988	101	941	822	842	864	791	762	844	789	799	753	820	722	732	706	
Bronx Workers %	18%	23%	25%	26%	27%	26%	27%	27%	25%	25%	24%	25%	26%	29%	30%	25%	25%	25%	22%	22%	22%	22%	23%	24%	20%	18%	18%	19%	18%	16%	15%	17%	17%	18%	17%	16%	15%	17%	16%	16%	16%	17%	18%	17%	18%	18%	17%	18%	18%	17%	18%	18%	

Total Average Overall= 20%

Croton WTP Brom Purchases

Event: Cumulative

Event: Monthly



Month	Jan-11	Feb-11	Mar-11	Apr-11	May-11	June-11	July-11	Aug-11	Sept-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12
Brom Monthly Cumulative	112,164,660.31	113,734,246.00	115,690,285.58	116,044,516.52	117,572,110.89	118,930,374.56	119,538,735.27	120,361,887.63	121,440,270.06	122,643,105.50	123,666,673.84	124,796,790.22	125,092,923.78	124,586,369.25	124,796,790.22	125,092,923.78
Brom Monthly Purchases	1,324,956.69	1,569,586.49	1,956,038.78	354,230.94	1,577,984.37	1,398,853.37	608,360.71	823,152.36	778,382.43	813,155.14	689,680.38	623,568.26	526,430.34	795,275.07	208,420.97	296,139.56

TOP FIVE VENDORS TO DATE

Vendor	Center Sheet (feet)	Tilcon	Fortmeter Security
Jenna Concrete	39,813,289.43		
CFS Steel	37,733,275.39	2,229,991.90	3,345,152.88
April-12	82,435,603.00		