

**NEW YORK CITY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY**

**ANNUAL REPORT
on
FAD BUDGET AND STAFFING**

September 27, 2013

Prepared in accordance with the United States Environmental Protection
Agency's July 2007 Filtration Avoidance Determination

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Management Services & Budget
Bureau of Water Supply

Department of Environmental Protection
Bureau of Water Supply
Filtration Avoidance Determination

Staffing

Section 9.0 of the Filtration Avoidance Determination (FAD) requires that New York City Department of Environmental Protection (DEP) maintain the level of staffing, funding and expertise necessary to support all elements of the City's Long Term Watershed Protection Programs. Annually, the DEP is required to identify actual filled positions versus available positions for each division and section involved in supporting the watershed protection programs. Table 1 summarizes the current staffing level for each division and section involved in supporting the City's Watershed Protection Programs. Table 2 summarizes the extent of our recruitment efforts in FY09. 95% of all FAD positions within the Bureau of Water Supply have been filled in FY13.

Funding

Section 9.0 of the FAD requires that DEP provide written notification as to whether the City budget for the upcoming fiscal year includes sufficient funding to allow the City to meet its obligations under the FAD. Table 3 summarizes capital funds disbursed and appropriated for FY13 thru FY18 to support *existing and new obligations* under the FAD programs. Table 4 summarizes expense funds disbursed in FY 13, budgeted for FY14 and planned for in the outer years to support *existing and new obligations* under the FAD programs. Capital and Expense funds provided by the NYC Office of Management and Budget (OMB) are sufficient to support the City's Long-Term Watershed Protection Programs.

Water Rates

DEP's water and wastewater services are funded entirely by ratepayers. Rates borne by property owners are the only source of the revenue to support these services, which are essential for local public health and quality of life, and are highly regulated at the State and federal levels. The FY14 water rate, which took effect July 1, 2013, reflected a 5.6% increase over the prior year. This reflects the lowest annual increase in recent years. A typical single-family homeowner would see an increase of approximately one dollar per week, from \$939 a year now to \$991 a year in FY14, based on an average consumption of 80,000 gallons of water per year. With nearly 20% of the New York City population living below the federal poverty threshold, and another 25% earning less than 150% of the poverty level, it is imperative that DEP continue to strive to keep water and sewer rates as affordable as possible.

In recent years, DEP has made considerable efforts to keep rates in check. For FY14, DEP cut its operating budget by 4% in order to save \$37 million, primarily through the Operational Excellence, or OpX, program initiatives. Under OpX, DEP carefully evaluated all aspects of its daily operations to find efficiencies and cost savings. While the results showed that DEP was already operating efficiently, we were able to identify areas for cost savings. DEP has also invested in meter replacement and wireless meter reading initiatives to help enhance revenue collection. DEP has installed 820,000 wireless meter reading devices – 96% of target – which have had a favorable effect on collections, even above our projections. Another benefit of wireless meter reading is that we are seeing a 77% reduction in estimated bills since 2009, and a 16% reduction in billing disputes since 2008. DEP has also benefited from a shift in regulatory policy away from very capital-intensive mandated projects. From 2002 through 2012, 65% of DEP's capital spending was for mandates. Even though the projects funded during that period may be complete, or nearly complete, ratepayers will be paying debt service related to these projects for years to come. Unfunded federal mandates cost the average homeowner \$258 in FY13 on their water bill.

Department of Environmental Protection
 Bureau of Water Supply
 Table 1 - FY13 Filtration Avoidance Positions

Program Description	Budgeted Positions	FY13 Filled Positions	Positions in Pipeline
Executive			
Deputy Commissioner & Support	4	4	0
Reservoir Releases Policy Development	4	4	
Total Executive	8	8	0
Water Quality - Management			
Director - Water Quality	1	1	
Management & Support	2	2	
Subtotal	3	3	0
Water Quality - Distribution Water Quality Operations			
Management & Support	2	2	
Distribution Water Quality Laboratory Operations - Management	1	1	
Microbiology	12	12	
Wet Chemistry	9	8	
Trace Metals	4	4	
Organic Chemistry	7	7	
Distribution Water Quality Field Operations - Management	1	1	
Field Operations	21	21	
Distribution Water Quality Compliance - Management	1	1	
Data Management	8	8	
Quality Assurance	4	4	
Procurement	2	2	
Health & Safety	1	1	
Subtotal	73	72	0
Water Quality - Watershed Water Quality Science & Research			
Management	1	1	
Water Quality Modeling	5	5	
Water Quality Program Evaluation & Planning	3	2	1
Watershed Impacts and Pathogen Assessment	4	4	
Reporting & Publications	2	2	
Subtotal	15	14	1
Water Quality - Distribution Water Quality Science & Research			
Management & Support	2	2	
Distribution Science & Planning	5	5	
Health Assessment and Policy Coordination	1	1	
Early Warning Remote Monitoring	15	14	1
Subtotal	23	22	1
Water Quality - Watershed Water Quality Operations			
Management	1	1	
Watershed Water Quality Compliance	10	10	
EOH Water Quality Operations	44	44	0
WOH Water Quality Operations	58	57	1
Wildlife Studies	3	3	
Subtotal	116	115	1
Total Water Quality	233	229	3

Department of Environmental Protection
 Bureau of Water Supply
 Table 1 - FY13 Filtration Avoidance Positions

Program Description	Budgeted Positions	FY13 Filled Positions	Positions in Pipeline
Upstate Police Force			
Chief	1	1	0
Assistant Chief	1	1	0
Inspector	1	1	0
Captain	4	4	0
Lieutenant	13	13	2
Sergeant	34	33	6
Environmental Police Officers	167	158	0
Admin/Analytical/Clerical Support	24	23	1
Total Upstate Police Force	245	234	9
Watershed Protection Programs			
Director - Watershed Protection Programs Management & Support	1	1	
	2	2	
Subtotal	3	3	0
Watershed Protection Programs - Watershed Lands & Community Planning			
Management & Support	1	1	
Land Acquisition	15	15	
Community Planning	6	6	
Stream Management	7	6	1
Working Lands	2	2	
Administration & Compliance	3	3	
GIS Support	4	4	
Subtotal	38	37	1
Watershed Protection Programs - Natural Resources Division			
Management & Support	2	2	
Natural Resources Management	30	29	1
Subtotal	32	31	1
Watershed Protection Programs - Regulatory & Engineering Programs			
Management & Support	3	2	1
Compliance and Administration	5	4	1
Wastewater Treatment Programs	9	7	2
Stormwater Programs	16	16	
SSTS Compliance & Inspection	13	13	
WWTP Compliance & Inspection	6	6	
Subtotal	52	48	4
Watershed Protection Programs - WWTP Upgrade Program			
Management & Support	3	3	
Subtotal	3	3	0
Total Watershed Protection Programs	128	122	6
Planning			
Management	1	1	
Strategic Planning	1	1	
Capital Planning	12	12	
Rondout West Branch Tunnel	2	1	

Department of Environmental Protection
 Bureau of Water Supply
 Table 1 - FY13 Filtration Avoidance Positions

Program Description	Budgeted Positions	FY13 Filled Positions	Positions in Pipeline
Hydro Development & Special Projects	2	2	
Emergency Planning	3	3	
Total Planning	21	20	0
Management Services & Budget			
Management - Director & Support	2	2	
OTPS Budget	2	2	
Human Resources	5	4	1
Facilities	6	6	
Upstate Fleet Services	16	2	
Contracts	2	2	
Procurement & Expense	15	14	1
Total MS&B	48	32	2
Operations			
Management & Support	3	3	
Subtotal	3	3	0
Operations Compliance & Technical Services			
Hazmat and Spill Management	5	5	
Subtotal	5	5	0
Instrumentation SCADA			
Instrumentation & SCADA	5	4	1
Subtotal	5	4	1
Operations - Eastern			
Management & Support	5	5	
Compliance & Administrative	3	3	
Engineering & Tech Support	10	8	2
Shaft Maintenance	6	5	1
Highlands Region - Management & Compliance	1	1	
Highlands Region - Technical Services	24	22	2
Highlands Region - Field Maintenance	26	26	
Kensico Region - Management & Support	2	2	
Kensico Region - Systems Operations	31	31	
Kensico Region - Engineering & Tech Services	15	14	1
Kensico Region - Risk Management Program	3	3	
Subtotal	126	120	6
Operations - Eastern Cat Del UV			
Management & Support	3	3	
Compliance & Administrative	3	2	
Cat Del UV Maintenance	10	10	
Cat Del UV SCADA/Instrumentation	9	8	1
Cat Del UV Operations	24	24	
Subtotal	49	47	1

Department of Environmental Protection
 Bureau of Water Supply
 Table 1 - FY13 Filtration Avoidance Positions

Program Description	Budgeted Positions	FY13 Filled Positions	Positions in Pipeline
Operations - Western			
Management & Support	3	3	
Compliance & Procurement	2	2	
Engineering & Tech Support	13	13	
Grahamsville Region - Management & Support	1	1	
Grahamsville Region - Maintenance	24	23	1
Kingston Facility Support	8	8	
Shokan Region - Management & Support	4	3	1
Shokan Region - Maintenance	43	43	1
Downsville Region - Management & Support	1	1	
Downsville Region - Maintenance	24	25	1
Subtotal	123	122	4
Operations - Water Systems Operations			
Management	1	1	
Reservoir Operations	8	8	
Watershed Monitoring & Operations Support	5	5	2
Subtotal	14	14	2
Operations - Wastewater			
Management & Support	6	5	1
Wastewater Treatment Operations	41	41	
Engineering & Tech Maintenance	12	12	1
Subtotal	59	58	2
Total Operations	384	373	16
Compliance			
Management & Support	3	3	
Facilities Compliance	16	14	2
Project & Field Compliance	5	5	
Environmental Projects	5	5	
EH&S Core Services	10	9	1
Total Compliance	39	36	3
Total Bureau of Water Supply	1,106	1,054	39

Percentage of Positions Filled

95%

Additional staff support for certain FAD Programs is provided by other units within DEP and the City, including the Bureau of Engineering Design and Construction, the Bureau of Legal Affairs, the Office of Environmental Planning and Assessment, the Bureau of Public Affairs and the New York City Law Department.

Table 2 Ads Placed for the Bureau of Water Supply

Civil Service Title	Business Title	Division	Location	Date	Posted On	Posted with	Total Cost
Administrative Project Manager	Deputy Chief WW Operations	Wastewater Operations	Grahamsville	Aug-12	WEEF.Org	Creative Media	\$ 250.00
Computer Associate (Software)	Programming Specialist	OIT	Valhalla	Aug-12	Careerbuilder.com Monster.com Careerbuilder.com	Creative Media	\$ 203.50
Administrative Project Manager	Grahamsville Regional Manager	Western Operations	Grahamsville	Jan-13	Hudsonvalleyhelpwanted.com A WWA.Org Hudson Valley Times Herald Job Board Monster.com/freemanonline.com Job Board	Miller Advertising	\$ 293.21
Instrumentation Specialist II	Instrumentation Specialist	Western Operations	Grahamsville	Jan-13	Board	Miller Advertising	\$ 360.18
Civil Engineering Intern	Engineering and Technical Services Assistant Engineer	Wastewater Operations	Grahamsville	Feb-13	Careerbuilder.com Hudsonvalleyhelpwanted.com	Miller Advertising	\$ 211.19
Associate Project Manager II	Associate Project Manager	WPP WL&CP	Valhalla	Feb-13	Careerbuilder.com Hudsonvalleyhelpwanted.com	Miller Advertising	\$ 211.19
Associate Project Manager I	Catskill Streams Buffer Initiative Coordinator	WPP WL&CP	Kingston	Mar-13	Careerbuilder.com Hudsonvalleyhelpwanted.com	Miller Advertising	\$ 211.19
Associate Project Manager II	Facility Operations Manager	Western Operations	Kingston	Mar-13	Careerbuilder.com Monster.com	Miller Advertising	\$ 183.75
Watershed Maintainer	Watershed Maintainer	Eastern Operations	Carmel	May-13	Careerbuilder.com Monster.com	Miller Advertising	\$ 183.75
Surveyor	Surveyor	Eastern Operations	Valhalla	May-13	Careerbuilder.com Monster.com	Miller Advertising	\$ 183.75
Stationary Engineer Electric	Stationary Engineer Electric	Eastern Operations	Wappinger Falls	May-13	Monster.com	Miller Advertising	\$ 79.00
Administrative Director of Lab	Section Chief	Water Quality	Grahamsville	May-13	Monster.com	Miller Advertising	\$ 79.00
Electrician's Helper	Electrician's Helper	Western Operations	Grahamsville	May-13	Monster.com	Miller Advertising	\$ 79.00
Computer Specialist (SW) I	Computer Specialist (SW) I	OIT	Valhalla	May-13	Monster.com	Miller Advertising	\$ 79.00

TOTAL JOB POSTINGS ADVERTISING COST FOR BWS FOR FY'13

\$ 2,607.71

DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF WATER SUPPLY
 TABLE 3 - CAPITAL COSTS - FILTRATION AVOIDANCE PROGRAMS
 FISCAL YEAR 2013 - 2018

Program	Contracting Entity	FY13 Disbursements	Costs Scheduled for Disbursements 2014 through 2018	APPROPRIATIONS*						Total Program Costs FY13-FY18
				FY14	FY15	FY16	FY17	FY18		
Environmental Infrastructure										
WWTP Upgrade Program	Environmental Facilities Corp.	\$ 14,622,628	\$ 44,176,115	\$ 14,102,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 72,900,743
Septic Rehabilitation Program	Catskill Watershed Corp.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Catskill Watershed Corp. & Environmental Facilities Corp.	\$ 533,710	\$ 17,436,202	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,969,912
New Sewage Treatment Infrastructure	Catskill Watershed Corp.	\$ -	\$ 2,966,946	\$ 29,500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 32,466,946
Community Wastewater Management	Multiple with private contractors	\$ 4,489	\$ 70,716	\$ 12,157,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,232,205
Sewer System Extension Program	Catskill Watershed Corp.	\$ -	\$ 4,120,774	\$ 6,875,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,995,774
Stormwater WOH Retrofit Program										
Protection and remediation										
Land Acquisition Hard Costs	Watershed Landowners & Partnerships	\$ 23,866,647	\$ 29,000,000	\$ 32,000,000.00	\$ -	\$ 3,994,000.00	\$ 20,000,000.00	\$ -	\$ -	\$ 108,860,647
Land Acquisition Soft Costs	Multiple Agreements	\$ 2,101,936	\$ 6,434,000	\$ 1,238,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,773,936
Land Management Program	Multiple Agreements	\$ 65,000	\$ -	\$ 1,601,000.00	\$ 240,000.00	\$ -	\$ 180,000.00	\$ -	\$ -	\$ 2,086,000
Watershed Agricultural & Forestry Program	Watershed Agricultural Council	\$ 8,980,845	\$ 658,214	\$ 13,613,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,252,059
Stream Management Program	Multiple Agreements	\$ 8,412,734	\$ 14,296,775	\$ 37,524,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,233,509
Kanisco Water Quality Programs	Multiple with private contractors	\$ 1,374,588	\$ 1,974,516	\$ 5,845,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,194,104
BOH Non-Point source Control	Multiple with private contractors	\$ 10,000,000	\$ 10,159,321	\$ 22,888,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 43,047,321
Catskill turbidity Control - Operations Support Tool	Gannett Fleming/Ehzen & Sawyer PC, JV	\$ 1,212,317	\$ 555,436	\$ 150,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,917,753
Catskill Turbidity Control - Shaft 4	Multiple with private contractors	\$ 5,388,185	\$ 29,540,560	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 34,928,745
Catskill Turbidity Control	Upstate Freshwater Institute	\$ 35,147	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 35,147
Watershed Monitoring, Modeling and GIS										
Watershed Monitoring	Multiple with private contractors	\$ -	\$ -	\$ 625,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 625,000
Modeling Program	Multiple with private contractors	\$ 299,262	\$ 792,861	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,192,123
Geographic Information System Program	Multiple Agreements	\$ -	\$ -	\$ 1,686,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,686,000
Regulatory Programs										
CAT/DDEL Ultraviolet Disinfection (UV)	Multiple with private contractors	\$ 127,219,219	\$ 188,952,955	\$ 5,815,000	\$ 15,000,000	\$ -	\$ -	\$ -	\$ -	\$ 336,987,174
Totals		\$ 204,116,707	\$ 351,135,391	\$ 185,719,000	\$ 15,240,000	\$ 3,994,000	\$ 20,180,000	\$ -	\$ -	\$ 780,385,097

*Dollar amounts are entered in the fiscal year of expected commitment. Actual disbursement of funds is anticipated to be equal in each fiscal year of the contract duration.

DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF WATER SUPPLY
 TABLE 4-EXPENSE COSTS-FILTRATION AVOIDANCE PROGRAMS
 FISCAL YEAR 2013-2016

Program	Contracting Entity	FY13 Disbursements Actual (as of 07/25/13)	Pending Invoices	FY14	FY15	FY16	Total Program Costs FY13-FY16
Environmental Infrastructure							
Sepic Rehabilitation Program	Catskill Watershed Corp.	\$3,624,466	\$0	\$7,200,000	\$7,200,000	\$7,200,000	\$30,424,466
New Infrastructure Program	Catskill Watershed Corp.	\$2,124,681	\$0	\$2,111,895	\$2,224,608	\$2,291,348	\$4,752,523
Community Wastewater Mgmt.	Multiple Municipalities	\$678,870	\$0	\$861,528	\$1,063,661	\$1,065,167	\$3,679,126
WWTP Upgrade Program	Multiple Purchases	\$10,261,831	\$0	\$13,610,085	\$14,154,489	\$14,720,679	\$52,767,104
Stormwater Retrofit Program	Catskill Watershed Corp.	\$482,628	\$0	\$300,000	\$300,200	\$300,200	\$1,283,028
Stormwater Technical Assistance	Catskill Watershed Corp.	\$48,000	\$0	\$0	\$0	\$0	\$48,000
Protection and Remediation							
Waterlow Management Program	HDR	\$2,334,403	\$0	\$2,268,760	\$2,268,760	\$2,268,760	\$9,140,683
Watershed Agricultural Program	Watershed Agricultural Council	\$325,596	\$0	\$2,485,849	\$2,485,849	\$2,485,849	\$7,783,133
Stream Management Program	Multiple contracts	\$0	\$0	\$5,220,317	\$5,220,317	\$5,220,317	\$15,660,951
WALISGIS	CUNY HF	\$125,554	\$0	\$348,400	\$346,400	\$346,400	\$1,164,754
Land Management	Multiple Purchases	\$23,639	\$0	\$42,000	\$42,000	\$42,000	\$149,639
Tax Litigation Avoidance Program	CWC	\$24,928	\$0	\$250,000	\$250,000	\$250,000	\$774,928
Catskill Watershed Corp Operating funds	CWC	\$281,575	\$0	\$291,575	\$291,575	\$291,575	\$1,166,300
LAP Advertising		\$23,639	\$0	\$98,000	\$98,000	\$99,000	\$140,639
Kenico Water Quality Control Programs	Multiple with Private Contractors	\$1,182,368	\$0	\$802,242	\$627,242	\$627,242	\$3,239,084
Reservoir Turbidity Control EIS Project	HDR/HKS	\$25,503	\$0	\$200,000	\$535,000	\$0	\$760,503
Educational Outreach	Catskill Watershed Corp.	\$150,093	\$0	\$200,000	\$200,000	\$200,000	\$750,093
Watershed Monitoring, Modeling and GIS							
Watershed Monitoring Programs	Multiple Purchases	\$171,933	\$0	\$189,940	\$189,940	\$189,940	\$741,753
Geographic Information Systems Program	Multiple Purchases	\$0	\$0	\$20,000	\$20,000	\$20,000	\$60,000
Regulatory Programs							
Watershed Rules & Regulations	HDR	\$24,510	\$0	\$100,000	\$0	\$0	\$124,510
Delegation-Local Health Departments	Contracts with Westchester, Putnam & Ulster Counties	\$493,163	\$135,316	\$491,028	\$491,028	\$491,028	\$2,041,553
Waterborne Disease Risk Assessment Prg.	NYC Dept. of Health	\$9,008	\$15,000	\$30,300	\$30,300	\$30,300	\$114,908
FAD Plug	Multiple Purchases	\$1,648,106	\$0	\$2,318,883	\$2,318,883	\$2,318,883	\$8,598,695
Totals		\$29,134,415	\$150,316	\$39,577,832	\$40,287,142	\$40,416,667	\$149,366,373

FY13 and FY14 estimates only provided for programs with multiyear contracts unlikely to be affected by the FAD negotiations.
 Most programs are under BC 6224; WWTP O&M partially under BC 6214 and WDRAP is under BC 0234.