

**New York City Department of Environmental Protection
Bureau of Water Supply**

**Annual Report on
FAD Budget and Staffing**

Revised November 24, 2014

*Prepared in accordance with Section 9. of the NYSDOH
Revised 2007 Filtration Avoidance Determination*



Prepared by: Robert Groppe, Director
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. 94% of all FAD positions within the Bureau of Water Supply have been filled in FY14.

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 FY14 thru FY19 to support *existing and new obligations* under the FAD programs. Table 4 summarizes expense funds disbursed in FY 14, budgeted for FY15 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 FY15 water rate, which took effect July 1, 2014, reflected a 3.35% increase over the prior year. This reflects the lowest annual increase in recent years. A typical single-family homeowner would see an increase of less than one dollar per week, from \$991 a year now to \$1,025 a year in FY15, based on an average consumption of 80,000 gallons of water per year for a single family home. 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 FY15, DEP increased its operating budget (Water System, Wastewater System, Indirect Expenses & Judgment & Claims) by only 1.962%, and continues to work to increase efficiency without sacrificing our mandate to protect the public's health and supply high quality drinking water. DEP has invested in meter replacement and wireless meter reading initiatives to help enhance revenue collection. DEP has installed more than 800,000 wireless meter reading devices – 96% of target – which have had a favorable effect on collections, even above our projections. DEP has also benefited from a shift in regulatory policy away from very capital-intensive mandated projects. Of the \$24.8 billion in capital commitments between FY2002 and FY2013, \$15.5 billion, or nearly 62%, has gone to legal 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 mandates cost the average homeowner \$286 in FY15 on their water bill.

Department of Environmental Protection
Bureau of Water Supply
Table 1 - FY14 Filtration Avoidance Positions

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Program Description	Budgeted Positions	FY14 Filled Positions	Positions in Pipeline
Executive			
Deputy Commissioner & Support	4	4	
Reservoir Releases Policy Development	4	4	
Total Executive	8	8	0
Water Quality - Management			
Director - Water Quality	1	1	
Management & Support	1	1	
Subtotal	2	2	0
Water Quality - Distribution Water Quality Operations			
Management & Support	2	2	
Distribution Water Quality Laboratory Operations - Management	1	1	
Microbiology	13	12	1
Wet Chemistry	10	8	2
Trace Metals	3	3	
Organic Chemistry	7	6	1
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	74	70	4
Water Quality - Watershed Water Quality Science & Research			
Management	1	1	
Water Quality Modeling	5	5	
Water Quality Program Evaluation & Planning	3	3	
Watershed Impacts and Pathogen Assessment	4	4	
Reporting & Publications	2	2	
Subtotal	15	15	0
Water Quality - Distribution Water Quality Science & Research			
Management & Support	3	3	
Distribution Science & Planning	4	4	
Health Assessment and Policy Coordination	1	1	
Early Warning Remote Monitoring	14	13	1
Subtotal	22	21	1
Water Quality - Watershed Water Quality Operations			
Management	1	1	
Watershed Water Quality Systems Support	10	10	
EOH Water Quality Operations	44	42	2
WOH Water Quality Operations	59	56	3
Wildlife Studies	3	2	1
Subtotal	117	111	6
Total Water Quality	232	221	11

Department of Environmental Protection
Bureau of Water Supply
Table 1 - FY14 Filtration Avoidance Positions

2

Program Description	Budgeted Positions	FY14 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	12	1
Sergeant	34	32	2
Environmental Police Officers	167	142	25
Admin/Analytical/Clerical Support	24	22	2
Total Upstate Police Force	245	215	30
Watershed Protection Programs			
Director - Watershed Protection Programs	1	1	
Management & Support	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	7	
Working Lands	2	2	
Administration & Compliance	3	3	
GIS Support	4	4	
Subtotal	38	38	0
Watershed Protection Programs - Natural Resources Division			
Management & Support	2	2	
Natural Resources Management	30	30	
Subtotal	32	32	0
Watershed Protection Programs - Regulatory & Engineering Programs			
Management & Support	3	3	
Compliance and Administration	5	5	
Wastewater Treatment Programs	13	13	
Stormwater Programs	16	15	1
SSTS Compliance & Inspection	10	10	
WWTP Compliance & Inspection	6	6	
Subtotal	53	52	1
Watershed Protection Programs - WWTP Upgrade Program			
Management & Support	3	3	
Subtotal	3	3	0
Total Watershed Protection Programs	129	128	1
Planning			
Management	1	1	
Strategic Planning	1	1	
Capital Planning	14	14	
Rondout West Branch Tunnel	2	2	
Hydro Development & Special Projects	1	1	
Emergency Planning	3	3	
Total Planning	22	22	0

Program Description	Budgeted Positions	FY14 Filled Positions	Positions in Pipeline
Management Services & Budget			
Management - Director & Support	2	2	
OTPS Budget	2	2	
Human Resources	5	5	
Facilities	6	6	
Upstate Fleet Services, Fuels and Chemicals	16	15	1
Contracts	2	1	1
Procurement & Expense	15	14	1
Total MS&B	48	45	3
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	0
Compliance & Administrative	3	3	0
Engineering & Tech Support	10	8	2
Shaft Maintenance	6	5	1
Highlands Region - Management & Compliance	1	1	0
Highlands Region - Technical Services	24	22	2
Highlands Region - Field Maintenance	26	24	2
Kensico Region - Management & Support	3	2	1
Kensico Region - Systems Operations	31	31	0
Kensico Region - Engineering & Tech Services	15	15	0
Kensico Region - Risk Management Program	3	3	0
Subtotal	127	119	8
Operations - Eastern Cat Del UV			
Management & Support	3	2	1
Compliance & Administrative	5	4	1
Cat Del UV Maintenance	10	10	
Cat Del UV SCADA/Instrumentation	8	8	
Cat Del UV Operations	34	32	2
Subtotal	60	56	4
Operations - Western			
Management & Support	3	3	
Compliance & Procurement	3	2	1
Engineering & Tech Support, Hydro	14	13	1
Grahamsville Region - Management & Support	1	1	
Grahamsville Region - Maintenance	23	23	
Kingston Facility Support	9	8	1
Shokan Region - Management & Support	4	3	1

Program Description	Budgeted Positions	FY14 Filled Positions	Positions in Pipeline
Shokan Region - Maintenance	41	40	1
Downsville Region - Management & Support	1	1	
Downsville Region - Maintenance	25	24	1
Subtotal	124	118	6
Operations - Water Systems Operations			
Management	1	1	
Reservoir Operations	8	8	
Watershed Monitoring & Operations Support	4	4	
Subtotal	13	13	0
Operations - Wastewater			
Management & Support	5	5	
Wastewater Treatment Operations	38	37	1
Engineering & Tech Maintenance	12	11	1
Subtotal	55	53	2
Total Operations	392	371	21
Compliance			
Management & Support	3	3	
Facilities Compliance	16	15	1
Project & Field Compliance	5	5	
Environmental Projects	5	5	
EH&S Core Services	10	8	2
Total Compliance	39	36	3
Total Bureau of Water Supply	1115	1046	69

Percentage of Positions Filled 94%

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

Civil Service Title	Business Title	Division	Location	Date	Posted On	Total Cost
Associate Project Manager II	Assistant Program Manager	Planning	Kingston	Jul-13	Monster.com	\$ 79.00
Civil Engineer II	Civil Engineer	Regulatory & Engineering	Kingston	Jul-13	Monster.com	\$ 79.00
Administrative Engineer	Job Order Contract Administrator	Eastern Operations	Valhalla	Jul-13	Monster.com	\$ 79.00
Administrative Project Manager	Section Chief, Wholesale Water Management	WPP	Valhalla	Aug-13	Monster.com	\$ 79.00
Administrative Project Manager	Downsville Regional Manager	Western Operations	Downsville	Sep-13	Monster.com	\$ 79.00
Stationary Engineer Electric	Stationary Engineer Electric	Wastewater Operations	Downsville	Sep-13	Monster.com	\$ 79.00
Instrumentation Specialist	Instrumentation Specialist	Wastewater Operations	Mahopac	Sep-13	Monster.com	\$ 79.00
Associate Project Manager III	Deputy Chief Hydroelectric Facilities Operations Manager	Western Operations	Downsville	Oct-13	Monster.com	\$ 79.00
Civil Engineer I	Civil Engineer	Eastern Operations	Wappinger Falls	Dec-13	Monster.com	\$ 79.00
Civil Engineer I	Civil Engineer	Eastern Operations	Wappinger Falls	Dec-13	HudsonvalleyHelpWanted.com	\$ 106.44
Associate Project Manager III	Deputy Chief Hydroelectric Facilities Operations Manager	Western Operations	Downsville	Jan-14	Hydrofoundation.org powerplantpro.com renewableenergyworld.com	\$ 25.00 \$ 175.00 \$ 300.00
Associate Public Health Sanita	Supervisor EH&S Western Division	Compliance	Kingston	Feb-14	Monster.com Careerbuilder.com HudsonvalleyHelpWanted.com	\$ 79.00 \$ 104.75 \$ 106.44
Stationary Engineer (Electric)	Stationary Engineer Electric	Wastewater Operations	Downsville	Mar-14	Oneonta Daily Star Walton Reporter Kingston Daily Freeman Blue Stone Press Job Target Diversity Media Sites Indeed.com Registerstar.com	\$ 791.00 \$ 93.53 \$ 1,622.47 \$ 155.29 \$ 150.00 \$ 500.00 \$ 539.49
TOTAL JOB POSTINGS ADVERTISING COST FOR BWS FOR FY'14						\$ 5,459.41

DEPARTMENT OF ENVIRONMENTAL PROTECTION

**BUREAU OF WATER SUPPLY
TABLE 3 - CAPITAL COSTS- FILTRATION AVOIDANCE PROGRAMS
FISCAL YEAR 2014 - 2019**

Program	Contracting Entity	FY14 Disbursements (Payments)	Costs Scheduled for Disbursements 2015 through 2019	APPROPRIATIONS*					Total Program Costs FY14- FY19
				FY15	FY16	FY17	FY18	FY19	
Environmental Infrastructure									
WWTP Upgrade Program	Environmental Facilities Corp.	\$ 1,832,165	\$ 36,741,319.09	\$ 14,102,000	\$ -	\$ -	\$ -	\$ -	\$ 52,675,484
Capital Equipment Replacement Program	Environmental Facilities Corp.	\$ -	\$ -	\$ 7,340,000	\$ -	\$ -	\$ -	\$ -	\$ 7,340,000
New Sewage Treatment Infrastructure	Catskill Watershed Corp. & Environmental Facilities Corp.	\$ 513,475	\$ 17,085,418	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,598,893
Community Wastewater Management	Catskill Watershed Corp.	\$ -	\$ 32,466,946	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 32,466,946
Sewer System Extension Program	Multiple with private contractors	\$ 1,896,006	\$ 2,638,994	\$ 8,901,000	\$ 735,000	\$ -	\$ -	\$ -	\$ 14,171,000
Stormwater Retrofit WOH Program	Catskill Watershed Corp.	\$ 1,037,547	\$ 9,083,227		\$ 875,000		\$ -	\$ -	\$ 10,995,774
Protection and remediation									
Flood Hazard Mitigation Program	Catskill Watershed Corp.	\$ -	\$ -	\$ 15,000,000	\$ -	\$ -	\$ -	\$ -	\$ 15,000,000
Land Acquisition Hard Costs	Watershed Landowners & Partnerships	\$ 24,644,431	\$ 18,799,000	\$ 22,161,000	\$ -	\$ -	\$ 54,494,000	\$ -	\$ 120,098,431
Land Acquisition Soft Costs	Multiple Agreements	\$ 3,875,913	\$ 202,810	\$ 4,502,000	\$ -	\$ -	\$ -	\$ -	\$ 8,580,723
Land Management Program	Multiple Agreements	\$ 29,438	\$ 288,395	\$ 393,000	\$ 235,000	\$ 1,075,000	\$ -	\$ -	\$ 2,020,833
Watershed Agricultural & Forestry Program	Watershed Agricultural Council	\$ 3,301,304	\$ 10,310,696	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,612,000
Stream Management Program	Multiple Agreements	\$ 11,223,538	\$ 8,935,467	\$ 26,577,000	\$ 2,892,000	\$ 7,071,000	\$ -	\$ -	\$ 56,699,005
Kensico Water Quality Programs	Multiple with private contractors	\$ 1,044,075	\$ 955,926		\$ 1,500,000	\$ -	\$ 2,000,000	\$ -	\$ 5,500,001
EOH Non-Point source Control	Multiple with private contractors	\$ 14,500,000	\$ 5,500,000	\$ 350,000	\$ 7,900,000	\$ 6,826,000	\$ -	\$ -	\$ 35,076,000
Catskill turbidity Control - Operations Support Tool	Gannett Fleming/Hazen & Sawyer PC, JV	\$ 970,440	\$ 29,560	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ 1,150,000
Catskill Turbidity Control - Shaft 4	Multiple with private contractors	\$ 16,702,407	\$ 9,156,774	\$ 1,750,000	\$ -	\$ -	\$ -	\$ -	\$ 27,609,181
Watershed Monitoring, Modeling and GIS									
Watershed Monitoring	Multiple with private contractors	\$ -	\$ -	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ 200,000
Modeling Program	Multiple with private contractors	\$ 1,948,314	\$ 161,587	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,109,901
Geographic Information System Program	Multiple Agreements	\$ 26,000	\$ -	\$ 711,000	\$ 500,000	\$ 132,000	\$ -	\$ -	\$ 1,369,000
Regulatory Programs									
CAT/DEL Ultraviolet Disinfection (UV)	Multiple with private contractors	\$ 111,713,294	\$ 1,732,888	\$ 74,000					\$ 113,520,182
Totals		\$ 195,258,347	\$ 154,089,008	\$ 101,961,000	\$ 14,737,000	\$ 15,104,000	\$ 56,494,000	\$ 150,000	\$ 537,793,355

*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 2014-2017								
Program	Contracting Entity	FY14 Disbursements	FY15	FY16	FY17	Total Program Costs FY14-FY17		
Environmental Infrastructure								
Septic Rehabilitation Programs	Catskill Watershed Corp.	\$5,400,000	\$7,200,000	\$7,200,000	\$7,200,000	\$27,000,000		
New Infrastructure Program	Catskill Watershed Corp.	\$2,115,355	\$2,224,609	\$2,291,348	\$2,360,089.19	\$8,991,401		
Community Wastewater Mgmt.	Multiple Municipalities	\$719,043	\$1,053,561	\$1,085,167	\$1,117,721.16	\$3,975,492		
WWTP Upgrade Program	Multiple Purchases	\$11,906,334	\$14,154,499	\$14,720,679	\$15,309,505.90	\$56,091,018		
Stormwater Retrofit Program	Catskill Watershed Corp.	\$89,387	\$300,200	\$300,200	\$300,200	\$989,987		
Protection and Remediation								
Waterfowl Management Program	HDR	\$1,923,070	\$1,600,475	\$1,600,475	\$1,600,475	\$6,724,495		
Watershed Agricultural Program	WAC	\$2,808,585	\$5,625,212	\$5,953,594	\$6,337,627	\$20,725,019		
WAC Stewardship	WAC	\$0	\$607,000	\$607,000	\$607,000	\$1,821,000		
Stream Management Program	multiple contracts	\$8,750	\$3,681,289	\$4,285,776	\$4,172,553	\$12,148,368		
Flood Hazard Mitigation	CWC	\$0	\$1,000,000	\$500,000	\$500,000	\$2,000,000		
WalIS/GIS	CUNY RF	\$342,547	\$354,535	\$362,862	\$371,384	\$1,431,327		
Land Management	Multiple Purchases	\$42,615	\$42,000	\$42,000	\$42,000	\$168,615		
Tax Litigation Avoidance Program	CWC	\$0	\$250,000	\$250,000	\$250,000	\$750,000		

Program	Contracting Entity	FY14 Disbursements	FY15	FY16	FY17	Total Program Costs FY14-FY17
Catskill Watershed Corp Operating funds	CWC	\$0	\$291,575	\$291,575	\$291,575	\$874,725
LAP Advertising		\$27,769	\$39,000	\$39,000	\$39,000	\$144,769
Kensico Water Quality Control Programs	Multiple with Private Contractors	\$772,565	\$1,062,273	\$1,062,273	\$1,062,273	\$3,959,384
Reservoir Turbidity Control EIS Project	HDR/H&S	\$70,724	\$535,000	\$100,000	\$0	\$705,724
Education Outreach	Catskill Watershed Corp.	\$158,629	\$200,000	\$200,000	\$200,000	\$758,629
Watershed Monitoring, Modeling and GIS						
Watershed Monitoring Programs	Multiple Purchases	\$470,591	\$175,000	\$175,000	\$175,000	\$995,591
Multi-tiered Water Quality Modeling Prg.	Multiple Purchases	\$15,176	\$620,000	\$620,000	\$620,000	\$1,875,176
Geographic Information Systems Program	Multiple Purchases	\$2,098	\$20,000	\$20,000	\$20,000	\$62,098
Regulatory Programs						
Watershed Rules & Regulations	HDR	\$189,455	\$100,000	\$0	\$0	\$289,455
Delegation-Local Health Departments	Contracts with Westchester, Putnam & Ulster Counties	\$454,651	\$491,028	\$491,028	\$491,028	\$1,927,735
Waterborne Disease Risk Assessment Prg.	NYC Dept. of Health	\$29,326	\$30,300	\$30,300	\$30,300	\$120,226
FAD Plug	Multiple Purchases	\$2,316,863	\$2,316,863	\$2,316,863	\$2,316,863	\$9,267,452
Totals		\$29,863,533	\$43,974,418	\$44,545,140	\$45,414,594	\$163,797,685