

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

**ANNUAL REPORT  
on  
FAD BUDGET AND STAFFING**

July 29, 2011

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

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Department of Environmental Protection  
Bureau of Water Supply  
Filtration Avoidance Determination

Staffing

Section 6.9 of the Filtration Avoidance Determination (FAD) requires that New York City Department of Environmental Protection (NYCDEP) maintain the level of staffing, funding and expertise necessary to support all elements of the City's Long Term Watershed Protection Programs. Annually, the NYCDEP 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. 93.9% of all FAD positions within BWS have been filled in FY11.

Funding

Section 6.9 of the FAD requires that NYCDEP 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 FY11 thru FY16 to support *existing and new obligations* under the FAD programs. Table 4 summarizes expense funds disbursed, budgeted for FY11 and planned for in the outer years to support *existing and new obligations* under the FAD programs. While our FAD program has, like all areas of NYCDEP, been subject to budget reductions, 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.

Department of Environmental Protection  
 Bureau of Water Supply  
 Table 1 - FY11 Filtration Avoidance Positions

Program Description	Budgeted Positions	FY11 Filled Positions	Positions in Pipeline
<b>Executive</b>			
Deputy Commissioner & Support	3	3	0
<b>Total Executive</b>	<b>3</b>	<b>3</b>	<b>0</b>
<b>Water Quality - Management</b>			
Director - Water Quality	1	1	
Management & Support	2	2	
<b>Subtotal</b>	<b>3</b>	<b>3</b>	<b>0</b>
<b>Water Quality - Distribution Water Quality Operations</b>			
Management & Support	2	2	
Distribution Water Quality Laboratory Operations - Management	1	1	
Microbiology	13	13	
Wet Chemistry	8	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	7	1
Quality Assurance	3	3	
Procurement	2	2	
Health & Safety	2	2	
<b>Subtotal</b>	<b>73</b>	<b>72</b>	<b>1</b>
<b>Water Quality - Watershed Water Quality Science &amp; Research</b>			
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	
<b>Subtotal</b>	<b>15</b>	<b>15</b>	<b>0</b>
<b>Water Quality - Distribution Water Quality Science &amp; Research</b>			
Management & Support	2	2	
Distribution Science & Planning	5	5	
Health Assessment and Policy Coordination	1	1	
Early Warning Remote Monitoring	15	14	1
<b>Subtotal</b>	<b>23</b>	<b>22</b>	<b>1</b>
<b>Water Quality - Watershed Water Quality Operations</b>			
Management	1	1	
Watershed Water Quality Compliance	13	12	1
EOH Water Quality Operations	45	41	4
WOH Water Quality Operations	59	57	3
Wildlife Studies	3	2	1
<b>Subtotal</b>	<b>121</b>	<b>113</b>	<b>9</b>

Department of Environmental Protection  
 Bureau of Water Supply  
 Table 1 - FY11 Filtration Avoidance Positions

Program Description	Budgeted Positions	FY11 Filled Positions	Positions in Pipeline
<b>Water Quality - Project Management &amp; Budget</b>			
Management & Support	5	5	
Subtotal	5	5	0
<b>Total Water Quality</b>	<b>240</b>	<b>230</b>	<b>11</b>
<b>Upstate Police Force</b>			
Chief	1	1	0
Assistant Chief	1	1	0
Inspector	1	1	0
Captain	4	4	0
Lieutenant	11	11	0
Sergeant	28	23	5
Environmental Police Officers	145	139	6
Admin/Analytical/Clerical Support	23	22	0
<b>Total Upstate Police Force</b>	<b>214</b>	<b>202</b>	<b>11</b>
<b>Watershed Protection Programs</b>			
Director - Watershed Protection Programs	1	1	
Management & Support	2	2	
Subtotal	3	3	0
<b>Watershed Protection Programs - Watershed Lands &amp; Community Planning</b>			
Management & Support	1	1	
Land Acquisition	17	17	
Community Planning	6	5	1
Stream Management	6	6	
Working Lands	2	2	
Administration & Compliance	4	4	
Natural Resources Management	26	25	
GIS Support	3	3	
Subtotal	65	63	1
<b>Watershed Protection Programs - Regulatory Review &amp; Engineering</b>			
Management & Support	2	2	
Compliance and Administration	6	6	
Wastewater Treatment Programs	13	13	
Stormwater Programs	16	16	
SSTS Compliance & Inspection	14	14	
WWTP Compliance & Inspection	6	6	
Subtotal	57	57	0
<b>Watershed Protection Programs - WWTP Upgrade Program</b>			
Management & Support	3	3	
Subtotal	3	3	0
<b>Total Watershed Protection Programs</b>	<b>128</b>	<b>126</b>	<b>1</b>
<b>Planning</b>			
Management	1	1	
Strategic Planning	2	2	

Department of Environmental Protection  
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 Table 1 - FY11 Filtration Avoidance Positions

Program Description	Budgeted Positions	FY11 Filled Positions	Positions in Pipeline
Capital Planning	15	15	
Rondout West Branch Tunnel	1	1	
Emergency Planning	2	2	
<b>Total Planning</b>	<b>21</b>	<b>21</b>	<b>0</b>
<b>Management Services &amp; Budget</b>			
Management - Director & Support	2	2	
OTPS Budget	2	2	
Human Resources	4	4	
Facilities and Fleet Services	6	6	
Contracts	1	1	
Procurement & Expense	11	10	1
<b>Total MS&amp;B</b>	<b>26</b>	<b>25</b>	<b>1</b>
<b>Operations</b>			
Management & Support	5	4	
<b>Subtotal</b>	<b>5</b>	<b>4</b>	<b>0</b>
<b>Operations - Eastern</b>			
Management & Support	5	5	
Compliance & Administrative	8	8	
Engineering & Tech Support	9	8	1
Highlands Region - Management & Support	1	1	
Highlands Region - Technical Services	19	15	4
Highlands Region - Field Maintenance	21	19	1
Highlands HAZMAT	3	3	
Kensico Region - Management & Support	2	2	
Kensico Region - Systems Operations	43	37	6
Kensico Region - Engineering & Tech Services	13	11	2
Kensico Region - Risk Management Program	3	3	
<b>Subtotal</b>	<b>127</b>	<b>112</b>	<b>14</b>
<b>Operations - Eastern Cat Del UV</b>			
Management & Support	3	2	1
Compliance & Administrative	5	4	1
Cat Del UV Maintenance	13	5	8
Cat Del UV SCADA/Instrumentation	7	5	2
Cat Del UV Operations	20	18	2
<b>Subtotal</b>	<b>48</b>	<b>34</b>	<b>14</b>

Department of Environmental Protection  
 Bureau of Water Supply  
 Table 1 - FY11 Filtration Avoidance Positions

Program Description	Budgeted Positions	FY11 Filled Positions	Positions in Pipeline
<b>Operations - Western</b>			
Management & Support	3	3	
Compliance & Procurement	4	4	
Engineering & Tech Support	15	15	
Grahamsville Region - Management & Support	1	1	
Grahamsville Region - Maintenance, Compliance & HAZMAT	27	27	
Kingston Facility Support	7	7	
Shokan Region - Management & Support	4	3	1
Shokan Region - Compliance & Maintenance	45	45	
Downsville Region - Management & Support	2	2	
Downsville Region - Compliance & Maintenance	27	27	
<b>Subtotal</b>	<b>135</b>	<b>134</b>	<b>1</b>
<b>Operations - Water Systems</b>			
Management	1	1	
Reservoir Operations	9	8	
Strategic Services	3	3	
Community Supplies	3	3	
Watershed Monitoring & Operations Support	6	3	3
<b>Subtotal</b>	<b>22</b>	<b>18</b>	<b>3</b>
<b>Operations - Wastewater</b>			
Management & Support	3	3	
Wastewater Treatment Operations	43	42	1
Engineering & Tech Maintenance	11	9	2
Compliance & Administration	4	4	
<b>Subtotal</b>	<b>61</b>	<b>58</b>	<b>3</b>
<b>Total Operations</b>	<b>398</b>	<b>360</b>	<b>35</b>
<b>Compliance</b>			
Management and Support	2	2	
Environmental Projects	5	4	1
Environmental Engineering			
Environmental Compliance	4	4	
Compliance Training	5	5	
Compliance Audit	5	5	
<b>Total Compliance</b>	<b>21</b>	<b>20</b>	<b>1</b>
<b>Total Bureau of Water Supply</b>	<b>1,051</b>	<b>987</b>	<b>60</b>

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.

**Department of Environmental Protection  
 Bureau of Water Supply  
 Table 2  
 Ads placed for FY 11**

<b>Placement of Advertisement</b>	<b>Date</b>	<b>Position Advertised</b>	<b>Type of Advertisement</b>
Monster	09/17/10	Electrician, Eastern Ops, Cat/Del UV	Website
Career Builder	09/17/10	Electrician, Eastern Ops, Cat/Del UV	Website
Hudson Valley Help Wanted	09/17/10	Electrician, Eastern Ops, Cat/Del UV	Website

Monster	11/05/10	Supervisor Watershed Maintenance I, Eastern Ops, Cat/Del UV	Website
Career Builder	11/05/10	Supervisor Watershed Maintenance I, Eastern Ops, Cat/Del UV	Website
Hudson Valley Help Wanted	11/05/10	Supervisor Watershed Maintenance I, Eastern Ops, Cat/Del UV	Website

Monster	11/05/10	Watershed Maintainer, Eastern Ops, Cat/Del UV	Website
Career Builder	11/05/10	Watershed Maintainer, Eastern Ops, Cat/Del UV	Website
Hudson Valley Help Wanted	11/05/10	Watershed Maintainer, Eastern Ops, Cat/Del UV	Website

Monster	11/05/10	Stationary Engineer (Electric), Eastern Ops, Cat/Del UV	Website
Career Builder	11/05/10	Stationary Engineer (Electric), Eastern Ops, Cat/Del UV	Website
Hudson Valley Help Wanted	11/05/10	Stationary Engineer (Electric), Eastern Ops, Cat/Del UV	Website

Monster	11/08/10	Instrumentation Specialist II, Water Quality, Cat/Del UV	Website
Career Builder	11/08/10	Instrumentation Specialist II, Water Quality, Cat/Del UV	Website
Hudson Valley Help Wanted	11/08/10	Instrumentation Specialist II, Water Quality, Cat/Del UV	Website

Monster	11/08/10	Computer Specialist II, Eastern Ops, Cat/Del UV	Website
Career Builder	11/08/10	Computer Specialist II, Eastern Ops, Cat/Del UV	Website
Hudson Valley Help Wanted	11/08/10	Computer Specialist II, Eastern Ops, Cat/Del UV	Website

Monster	11/15/10	Instrumentation Specialist II, Eastern Ops, Cat/Del UV	Website
Career Builder	11/15/10	Instrumentation Specialist II, Eastern Ops, Cat/Del UV	Website
Hudson Valley Help Wanted	11/15/10	Instrumentation Specialist II, Eastern Ops, Cat/Del UV	Website



DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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TABLE 3 - CAPITAL COSTS- FILTRATION AVOIDANCE PROGRAMS  
FISCAL YEAR 2011 - 2016

Program	Contracting Entity	FY11 Disbursements	Costs Scheduled for Disbursement through 2012	APPROPRIATIONS*						Total Program Costs FY12-FY16
				FY12	FY13	FY14	FY15	FY16		
<b>Environmental Infrastructure</b>										
WWTP Upgrade Program	Environmental Facilities Corp.	32,513,151	100,168,022	6,476,000	14,102,000					153,259,173
Septic Rehabilitation Program	Catskill Watershed Corp.	5,200,000	15,600,000		26,000,000					46,800,000
New Sewage Treatment Infrastructure	Catskill Watershed Corp. & Environmental Facilities Corp.	1,089,785	20,327,874							21,417,659
Community Wastewater Management	Catskill Watershed Corp.	9,672,000	9,846,946		29,500,000					49,018,946
Sewer System Extension Program	Multiple with private contractors	0	778,309	6,807,000	4,635,000					12,220,309
Stormwater WOH Retrofit Program	Catskill Watershed Corp.	0	4,120,774		6,875,000					10,995,774
<b>Protection and remediation</b>										
Land Acquisition (WQPLAND) Program <sup>1)</sup>										
Land Management Program	Multiple with private contractors	46,474,762	11,844,999	31,406,000				85,150,000		174,875,761
Watershed Agricultural Program	Watershed Agricultural Council	98,915		640,000	350,000	270,000		240,000		1,598,915
Stream Management Program	Catskill Watershed Corp./Multiple with private contractors	15,699,475	10,957,848		5,000,000	37,000,000				68,657,323
Kensico Water Quality Programs	Multiple with private contractors	3,610,706	47,326,934	5347000	1250000	18296000				75,830,640
EOH Non-Point source Control BWS	Multiple with private contractors	0	0	4,642,000	1,000,000	500,000				6,142,000
EOH Non-Point source Control BEDC	Multiple with private contractors	766,654	1,812,084	21,868,000	6,330,000					30,776,738
Catskill turbidity Control-Evaluation of Engineering Alternatives	Gannett Fleming/Hazen & Sawyer PC, JV	2,223,979	1,198,053							2,488,780
Catskill Turbidity Control	Upstate Freshwater Institute		370,363							2,223,979
Schoharie Dredging Project	D.A. Collins Constr.	120,411	23,308							490,774
Sand and Salt Storage	Catskill Watershed Corp.	0	0							23,308
<b>Watershed Monitoring, Modeling and GIS</b>										
Watershed Monitoring	Multiple with private contractors	493,393	0		100,000			115,000		708,393
Modeling Program	Multiple with private contractors	637,729	2,610,822	522,000	3,000,000			-		6,770,551
Geographic Information System Program	Multiple purchases	1,770,278	2,254,846	1,695,000	1,710,000	665,000		800,000		8,895,124
<b>Regulatory Programs</b>										
CAT/DEL Ultraviolet Disinfection (UV)	Multiple with private contractors	319,150,371	819,889,929							1,139,040,300
<b>Totals</b>		<b>440,812,335</b>	<b>1,049,131,113</b>	<b>79,403,000</b>	<b>99,852,000</b>	<b>56,731,000</b>	<b>0</b>	<b>86,305,000</b>		<b>1,812,234,448</b>

<sup>1)</sup>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 2011-2014**

<b>Program</b>	<b>Contracting Entity</b>	<b>FY11 Disbursements Actual (as of 07/15/11)</b>	<b>Pending Invoices</b>	<b>FY12</b>	<b>FY13</b>	<b>FY14</b>	<b>Total Program Costs FY11-FY14</b>
<b>Environmental Infrastructure</b>							
Septic Maintenance Programs	Catskill Watershed Corp.	\$0	\$0	\$0	\$0	\$0	\$0
New Infrastructure Program	Catskill Watershed Corp.	\$1,836,468	\$0	\$2,405,681	\$2,525,773	\$2,763,312	\$9,531,234
Community Wastewater Mgmt.	Multiple Municipalities	\$543,600	\$0	\$813,367	\$854,035	\$1,137,937	\$3,348,939
WWTP Upgrade Program	Multiple Purchases	\$9,986,702	\$0	\$11,455,852	\$12,163,886	\$12,650,441	\$13,125,650
Stormwater Retrofit Program	Catskill Watershed Corp.	\$300,000	\$0	\$350,000	\$350,000	\$300,000	\$1,300,000
Stormwater Technical Assistance	Catskill Watershed Corp.	\$46,000	\$0	\$48,000	\$48,000	\$0	\$144,000
WOH-Local Technical Assistance	Catskill Watershed Corp.	\$0	\$0	\$0	\$0	\$0	\$0
<b>Protection and Remediation</b>							
Waterfowl Management Program	HDR	\$1,928,213	\$227,686	\$2,586,760			\$4,752,658
Land Management	USFS & Multiple Purchases	\$898,275	\$24,388	\$120,000			\$1,042,663
Tax Litigation Avoidance Program	CWC	\$0	\$0	\$500,000			\$500,000
Stream Management	Multiple Purchases	\$83,700	\$0	\$0			\$83,700
Wetlands Protection Program	Multiple Purchases			\$0			\$0
EOH Non Point Source Pollution Control Program	Multiple with Private Contractors	\$100,595	\$65,000	\$0			\$165,595
Kensico Water Quality Control Programs	Multiple with Private Contractors	\$368,569	\$0	\$707,742			\$1,076,310
EOH Environmental Planning	Putnam County	\$0	\$0	\$0			\$0
Reservoir Turbidity Control EIS Project	HDR/H&S	\$34,528	\$0	\$872,000			\$906,528
Education Outreach	Catskill Watershed Corp.	\$209,438	\$0	\$210,000			\$419,438
Center for Excellence	SUNY RF	\$64,907	\$21,463	\$0			\$86,370

**DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WATER SUPPLY  
TABLE 4-EXPENSE COSTS-FILTRATION AVOIDANCE PROGRAMS  
FISCAL YEAR 2011-2014**

Program	Contracting Entity	FY11 Disbursements Actual (as of 07/16/11)	Pending Invoices	FY12	FY13	FY14	Total Program Costs FY11-FY14
<b>Watershed Monitoring, Modeling and GIS</b>							
Watershed Monitoring Programs	Multiple Purchases	\$158,556	\$1,428	\$175,440			\$335,424
Multi-tiered Water Quality Modeling Prg.	Multiple Purchases	\$0	\$0	\$0			\$0
Geographic Information Systems Program	Multiple Purchases	\$3,122	\$0	\$20,000			\$23,122
<b>Regulatory Programs</b>							
Watershed Rules & Regulations	HDR	\$115,948	\$0	\$76,000	\$100,000	\$100,000	\$391,948
Delegation-Local Health Departments	Contracts with Westchester, Putnam & Ulster Counties	\$410,430	\$0	\$489,186	\$489,186	\$489,186	\$1,877,988
Waterborne Disease Risk Assessment Prg.	NYC Dept. of Health	\$12,990		\$30,300	\$30,300	\$30,300	\$103,890
FAD Plug	Multiple Purchases	\$1,004,646		\$2,316,863	\$2,316,863	\$2,316,863	\$7,955,235
<b>Totals</b>		<b>\$18,108,686</b>	<b>\$339,964</b>	<b>\$23,187,190</b>	<b>\$18,878,043</b>	<b>\$19,788,039</b>	<b>\$47,170,692</b>

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.