

New York City Department of Environmental Protection

Wastewater Treatment Plant Upgrade Program Quarterly Progress Report

This report identifies DEP's quarterly progress on the upgrades for non-City owned SPDES permitted Catskill and Delaware wastewater treatment plants discharging into the NYC Watershed.

January 27, 2011

*Prepared in accordance with Section 3.4 of the July 2007 United States Environmental Protection Agency
Filtration Avoidance Determination*

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WWTP Upgrade Program
Bureau of Water Supply

January 2011
Quarterly Progress Report
Filtration Avoidance Determination

**Upgrades for Non-City Owned SPDES Permitted Catskill and Delaware
WWTP Discharging into the NYC Watershed**

Introduction:

This report updates information on the activities by the NYC Department of Environmental Protection (DEP) with NYS Environmental Facilities Corporation (EFC) and owners of existing Catskill and Delaware wastewater treatment plants (WWTPs) to assure execution and compliance with the necessary upgrades to comply with the standards outlined in the Watershed Rules and Regulations.

Summary of Progress 10/28/10 – 1/27/11:

See the following attached tables and report:

- **WWTPs Functionally Complete or In Construction Phase Table**
- **Croton Falls & Cross River Basin WWTPs Status Table**
- **New Non WWTPs in Upgrade Program Status Table**
- **WOH FAD WWTP Upgrade Program Progress Report**

WWTPs Functionally Complete or Construction Phase
1/27/11

	WWTP	FLOW (MGD)	UPGRADE STATUS
1	Bataviakill Recreation Area	0.005	Functionally Complete.
2	Camp Loyaltown	0.021	Functionally Complete. Flow is being sent to the Village of Hunter WWTP.
3	Camp L'man Achai	0.0075	Functionally Complete.
4	Camp Nubar	0.0125	Functionally Complete.
5	Camp Oh-Neh-Tah	0.0075	Functionally Complete.
6	Camp Timberlake	0.034	Functionally Complete.
7	Clear Pool Camp	0.02	Functionally Complete.
8	Colonel's Chair Estates	0.03	Functionally Complete. Flow is being sent to the Village of Hunter WWTP.
9	Crystal Pond	0.036	Functionally Complete. Flow is being sent to the Village of Windham WWTP.
10	Delaware BOCES	0.01	Functionally Complete.
11	Elka Park	0.01	Functionally Complete.
12	Forester Motor Lodge	0.0039	Functionally Complete. Flow is being sent to the Village of Hunter WWTP.
13	Frog House	0.0018	Functionally Complete. Flow is being sent to the Town of Windham WWTP.
14	Golden Acres Farm	0.0092	Functionally Complete.
15	Harriman Lodge	0.02	Functionally Complete.
16	Hunter Highlands	0.04	Functionally Complete.
17	Latvian Church Camp	0.007	Functionally Complete.
18	Liftside	0.081	Functionally Complete. Flow is being sent to the Village of Hunter WWTP.
19	Mountainside Inn	0.0031	Functionally Complete.

WWTPs Functionally Complete or Construction Phase
1/27/11

20	Mountain View & Estates #1 & #2	0.013	Functionally Complete. Mountain View Estates #1 and #2 were combined into a single new upgraded WWTP.
21			
22	Olive Woods	0.0127	Functionally Complete.
23	Onteora CSD	0.027	Functionally Complete. Flow being sent to the Boiceville WWTP.
24	Regis Hotel	0.0096	Functionally Complete. Flow is being sent to the Village of Fleischmanns' WWTP.
25	Ron De Voo Restaurant	0.001	Functionally Complete.
26	Roxbury Run	0.035	Functionally Complete.
27	SEVA Institute	0.0078	Functionally Complete.
28	Snow Time, Inc.	0.12	Functionally Complete. Flow is being sent to the Town of Windham WWTP.
29	South Kortright/Allen Residential	0.0	Functionally Complete. Flow is being sent to the Village of Hobart WWTP.
30	Thompson House	0.0048	Functionally Complete. Flow is being sent to the Town of Windham WWTP.
31	Ultra Dairy/Tuscan	0.0	Functionally Complete. Flow is being sent to the Village of Delhi WWTP.
32	Village of Delhi	0.815	Functionally Complete.
33	Village of Hobart	0.18	Functionally Complete.
34	Village of Stamford	0.7	Functionally Complete.
35	Village of Walton	1.6	Functionally Complete.
36	Whistle Tree	0.0125	Functionally Complete. Flow is being sent to the Village of Hunter WWTP.
37	Worcester Creameries	0.051	Functionally Complete. Phase 2 design ongoing.
	Functionally Complete	3.9489M GD	100% of Flow

Total WOH WWTPs (MGD): 3.9489

Croton Falls & Cross River Basins WWTPs

1/27/11

WWTP

FLOW
(MGD)

UPGRADE STATUS

1	Carmel SD#2	1.10	Functionally complete. R. Mastronardi
2	Fulmar Road E.S.	0.019	Functionally complete. R. Mastronardi
3	Lake Plaza	0.02	Construction began 12/31/09. R. Mastronardi.
4	Lewisboro E.S.	0.01	Functionally complete.
5	Meadows at Cross River	0.059	Functionally complete.
6	Michelle Estates	0.06	Functionally complete.
7	Ralph Morando Bldg.	0.0018	Functionally complete. R. Mastronardi
8	The Fairways/Hill & Dale	0.065	Functionally complete.
9	Waccabuc Country Club	0.008	Construction began 3/17/10.

**Croton Falls & Cross
River Basins WWTPs
Totals** **1.3428
MGD**

Flow Functionally Complete: 1.315 MGD % Flow Functionally Complete: 98%

New Non WWTPs in Upgrade Program

1/27/11

DEP has re-interpreted its definition of a WWTP that discharges sub-surface. The following non WWTPs will remain in the Upgrade Program.

-
- | | |
|-----------------------------------|--|
| 1 Bread Alone | Scheduled to be connected to the Boiceville wastewater treatment system. |
| 2 Palace Hotel | Functional Completion. Flow is being sent to the Village of Fleischmanns' WWTP. |
| 3 Selena's Diner | Functionally Complete 3/22/07. Flow is being sent to the DEP WWTP at Tannersville. |
| 4 Windham Mountain Village | Functionally Complete 5/23/07. Flow is being sent to the Town of Windham WWTP. |
| 5 Windham Ridge Club | Functionally complete. |

WOH FAD WWTP Upgrade Program Progress Report
1/27/11

MILESTONE:

		M5			M6			M7		M8		M9	
		CUP Approved & Authorization to Proceed with Facility Plan	Draft Facility Plan Submitted	Facility Plan Approved & Authorization to Proceed with PUP	65% PUP Submitted	100% PUP Submitted	PUP Approval DEP Authorization to Submit 100% PUP to other Regulatory Agencies	FUP Approval	Construction Start Up	Functional Completion Certification from Owner	DEP Certification of Functional Completion Start-Up & Perform. Testing	Flow (MGD) Commenced Start-up & Performance Testing	
1	Bataviakill Rec. Area ¹	0.005	9/27/2004	4/15/2005	7/27/2007	7/27/2007	7/27/2007	1/29/2008 6/25/2009	12/10/2009	6/9/2010	6/21/2010	0.005	
2	Camp L'man Achai	0.0075	4/27/2001	12/21/2001	5/24/2002	6/17/2002	7/19/2002	4/22/2003	9/19/2003	5/26/2004	6/15/2004	0.0075	
3	Camp Loyaltown ²	0.021	4/28/2000	10/13/2000	10/30/2000	5/2/2001	8/24/2001	6/5/2003	9/8/2003	1/27/2004	✓	0.021	
4	Camp Nubar	0.0125	1/23/2001	1/30/2002	✓	6/30/2003	7/30/2003	12/20/2005	9/1/2006	6/6/2007	6/25/2007	0.0125	
5	Camp Oh-Neh-Tah ¹	0.0075	6/18/2008	10/1/2008	11/19/2008	12/15/2008	2/3/2009	4/27/2009	4/14/2010	12/29/2010	1/20/2011	0.0075	
6	Clear Pool Camp	0.02	11/1/2000	2/7/2001	3/19/2001	5/29/2002	5/29/2002	8/20/2002	5/5/2003	8/2/2004	8/27/2004	0.02	
7	Camp Timberlake	0.034	1/23/2001	1/31/2002	10/30/2002	4/17/2003	6/20/2003	8/31/2004	10/20/2004	4/29/2005	6/30/2005	0.034	
8	Colonel's Chair Estates ²	0.03	5/10/2000	10/10/2000	10/30/2000	6/21/2001	10/22/2001	6/5/2003	9/26/2003	3/1/2004	✓	0.03	
9	Crystal Pond	0.036	8/17/2007	✓	✓	✓	11/13/2007	12/28/2007	9/30/2008	3/12/2009	4/27/2009	0.036	
10	Delaware BOCES	0.01	10/19/2000	1/22/2001	3/21/2001	7/16/2001	10/22/2001	10/4/2002	5/9/2003	4/22/2004	7/9/2004	0.01	
11	Elka Park	0.01	1/23/2001	6/2/2003	7/10/2003	10/14/2003	3/29/2004	3/14/2006	10/13/2006	12/26/2007	2/15/2008	0.01	
12	Forester Motor Lodge ²	0.0039	4/28/2000	10/17/2000	10/30/2000	4/20/2001	10/10/2001	6/5/2003	9/26/2003	3/1/2004	✓	0.0039	

WOH FAD WWTP Upgrade Program Progress Report
1/27/11

MILESTONE:

		M5		M6		M7		M8		M9			
		CUP Approved & Authorization to Proceed with Facility Plan	Draft Facility Plan Submitted	Facility Plan Approved & Authorization to Proceed with PUP	65% PUP Submitted	100% PUP Submitted	PUP Approval DEP Authorization to Submit 100% PUP to other Regulatory Agencies	FUP Approval DEP Authorization to Proceed with Bidding	Construction Start Up	Functional Completion Certification from Owner	DEP Certification of Functional Completion Start-Up & Perform. Testing		
13	Golden Acres Farm	0.0092	10/30/2000	5/7/2001	4/26/2002	4/30/2003	6/2/2003	6/26/2003	7/27/2004	12/20/2004	2/21/2006	3/21/2006	0.0092
14	Harriman Lodge	0.02	6/16/2000	√	10/5/2001	12/5/2001	1/2/2002	2/2/2003	2/25/02 ¹	3/26/2002	7/1/2002	8/2/2002	0.02
15	Hunter Highlands	0.04	6/16/2000	10/3/2000	10/30/2000	3/6/2001	6/5/2001	7/5/2001	9/28/2001	1/24/2002	5/1/2002	6/14/2002	0.04
16	Latvian Church Camp	0.007	10/13/2000	2/12/2001	4/13/2001	1/14/2002	4/2/2002	5/24/2002	8/12/2002	11/7/2002	7/2/2003	7/30/2003	0.007
17	Lifside ²	0.081	5/10/2000	10/10/2000	10/30/2000	6/6/2001	12/21/2001	3/28/2002	7/25/2003	10/17/2003	1/27/2004	√	0.081
18	Mountain View Est. #1 ⁵	0.007	11/3/2000	3/16/2001	√	7/31/2003	7/31/2003	9/11/2003	12/7/2005	8/1/2006	6/26/2009	7/18/2008	0.007
19	Mountain View Est. #2 ⁵	0.006	11/3/2000	3/16/2001	√	7/31/2003	7/31/2003	9/11/2003	12/7/2005	8/1/2006	6/26/2009	7/18/2008	0.006
20	Mountainside Inn ⁹	0.0031	8/23/2000	1/17/2001	2/28/2001	√	4/8/2003	10/3/2003	10/4/2004	11/29/2004	12/16/2005	√	0.0031
21	Olive Woods ³	0.0127	10/27/2000	3/2/2001	4/10/2001	2/27/2002	4/12/2002	5/7/2002	1/28/2003	10/9/2007	3/20/2009	3/31/2009	0.0127
22	Onteora CSD ⁴	0.027	6/23/2000	3/16/2001	4/9/2001	12/2/2001	4/18/2002	5/8/2002	10/2/2002	10/9/2010	10/9/2010	10/27/2010	0.027
				1/4/2005	√	√	√	√	7/1/2010				
23	Regis Hotel ²	0.0096	7/27/2000	10/11/2000	9/17/2001	√	4/18/2003	√	5/13/2002	7/1/2003	8/21/2003	√	0.0096
24	Ron De Voo Restaurant ¹⁰	0.001	10/30/2000	3/29/2001	√	√	√	10/27/2004	√	√	2/11/2005	2/11/2005	0.001

WOH FAD WWTP Upgrade Program Progress Report
1/27/11

MILESTONE:

		M5	M6	M7	M8	M9						
		PUP Approval			FUP Approval							
		CUP Approved & Authorization to Proceed with Facility Plan	Draft Facility Plan Submitted	Facility Plan Approved & Authorization to Proceed with PUP	65% PUP Submitted	100% PUP Submitted	Authorization to Submit other Regulatory Agencies					
		Approved & Authorization to Proceed with Facility Plan	Draft Facility Plan Submitted	Facility Plan Approved & Authorization to Proceed with PUP	65% PUP Submitted	100% PUP Submitted	Authorization to Submit other Regulatory Agencies					
WWTP	FLOW (MGD)						Authorization to Proceed with Bidding					
							Construction Start Up					
							Functional Completion Certification from Owner					
							DEP Certification of Functional Completion Start-Up & Perform. Testing					
							Flow (MGD) Commenced Start-up & Performance Testing					
25 Roxbury Run Village	0.035	5/18/2000	9/27/2000	10/30/2000	6/4/2001	9/10/2001	1/28/2002	8/23/2002	4/29/2003	1/26/2004	8/18/2004	0.035
26 SEVA Institute	0.0078	10/30/2000	5/29/2001	10/24/2001	5/15/2003	6/17/2003	6/30/2003	3/28/2007	10/12/2007	7/29/2008	7/29/2008	0.0078
27 Snow Time, Inc. ²	0.12	6/27/2000	11/20/2000	1/23/2001	5/4/2001	7/23/2001	√	√	√	9/11/2003	11/19/2003	0.12
28 South Kortright/ Allen Residential Center ¹¹	0	10/30/2000	5/10/20018	8/1/2001	6/18/2001	9/27/2001	11/30/2001	12/19/01 ¹	1/2/2003	5/30/2002	9/27/2002	0.02
29 Thompson House ²	0.0048	5/17/2000	8/25/2000	10/30/2000	3/23/2001	7/23/2001	√	4/14/2003	√	9/4/2003	10/24/2003	0.0048
30 Ultra Dairy/ Morningslar /Tuscan ^{7,11}	0	11/30/2000	5/17/2001	√	8/20/2001	11/9/2001	12/7/2001	√	√	√	√	0
31 Village of Delhi	0.815	8/2/2000	8/2/2000	8/2/00	4/12/2001	6/15/2001	6/28/2001	7/27/2001	7/25/2001	5/22/2002	8/16/2002	0.815
32 Village of Hobart	0.18	4/19/2000	1/23/2001	3/1/2001	7/17/2001	10/27/2001	10/29/2001	11/20/2001	1/3/2002	4/26/2002	6/7/2002	0.16
33 Village of Stamford	0.7	2/10/2000	5/31/2000	1/24/2001	6/19/2001	7/23/2001	7/23/2001	9/7/2001	8/29/2001	5/31/2002	8/16/2002	0.7
34 Village of Walton	1.6	7/27/2000	8/14/2000	11/20/2000	3/1/2001	6/15/2001	6/28/2001	7/20/2001	8/15/2001	5/6/2002	8/16/2002	1.6

⁶ 8/15/02⁶

WOH FAD WWTP Upgrade Program Progress Report
1/27/11

MILESTONE:	M5	M6	M7	M8	M9	DEP									
						Flow (MGD)	Commenced								
WWTP	FLOW (MGD)	CUP Approved & Authorization to Proceed with Facility Plan	Draft Facility Plan Submitted	Authorization to Proceed with PUP	65% PUP Submitted	100% PUP Submitted	Authorization to Submit 100% PUP to other Regulatory Agencies	DEP Approval	FUP Approval	DEP Authorization to Proceed with Bidding	Construction Start Up	Functional Completion Certification from Owner	DEP Certification of Functional Completion Start-Up & Perform. Testing	Flow (MGD)	Commenced Start-up & Performance Testing
35 Whistle Tree ⁸	0.0125	10/23/2000	3/27/2001	√	12/29/2004	5/6/2005	6/7/2005	10/17/2005	10/18/2006	3/19/2007	4/20/2007	0.0125			
36 Worcester Creameries/ Mountainside Farms	0.051	4/20/2000	8/3/2000	10/30/2000	4/6/2001	8/29/2001	9/11/2001	9/28/2001	1/11/2002	5/1/2002	6/14/2002	0.051			
37 Frog House ²	0.0018	NA	NA	NA	NA	NA	NA	√	6/1/2006	7/7/2007	√	0.0018			
Totals	3.9489	37	37	37	37	37	37	37	37	36	36	3.9489			

100% of flow has begun
upgraded operations

Note: An amendment, Amendment #4 to the EFC/DEP WWTP Upgrade Agreement, to disburse up to an additional \$1,000,000 in SPDES Funds for WOH WWTPs was executed.

¹ New WWTP added to the Program. 6/29/09 FUP date for Bataviakill is a revised FUP to do "HOLD & Haul"
² New Infrastructure Program (NIP) WWTPs have been decommissioned and their flow has been sent to a municipal WWTP.
³ DEP authorized award of construction contract 10/9/07. EFC authorized execution of contract 12/11/07.
⁴ On 10/9/2010 connected to the Boiceville waste water treatment system.
⁵ Mountainview I & II has been consolidated into one WWTP.
⁶ First date is the actual Functional Completion date per the Certificate of Functional Completion. Second date is the date that engineer and mayor signed the Certificate.
⁷ Ultra Dairy/DMV WWTP decommissioned. Flow is being treated at the Village of Delhi WWTP. Pre-Treatment Plant construction completed and operational.
⁸ Beginning 12/23/06 flow was sent to the Village of Hunter WWTP.
⁹ The owner began construction without DEP authorization, but subsequently DEP authorized construction to commence on 2/22/05.
¹⁰ The WWTP has been decommissioned and the restaurant has been demolished.
¹¹ S. Kortright decommissioned its WWTP and sent its flow to the Hobart WWTP.