

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.

October 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
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October 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 7/23/11 – 10/27/11:

See the following attached tables and report:

- **WWTPs Functionally Complete**
- **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

10/27/11

| | 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

10/27/11

| | | | |
|----|--|-------------------|---|
| 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 | 3.9489 MGD | 100% of Flow |

Total WOH WWTPs (MGD): 3.9489

Croton Falls & Cross River Basins WWTPs

10/27/11

| 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 | Functionally complete. 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 | Functionally complete. |
| Croton Falls & Cross River Basins WWTPs Totals | 1.3428 MGD | |

Flow Functionally Complete: **1.3428 MGD** % Flow Functionally Complete: **100%**

New Non WWTPs in Upgrade Program

10/27/11

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 | On 10/19/11 construction bids were opened for the connection to the Boiceville WWTP. |
| 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. Flow is being sent to the Town of Windham WWTP. |

WOH FAD WWTP Upgrade Program Progress Report
10/27/11

| MILESTONE: | WWTP | FLOW (MGD) | 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 & Performance 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 | 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 | 10/30/2002 | 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 | 2/27/2009 | 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 | 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 | 3/4/2004 | 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 | 11/19/2007 | 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 | 4/9/2002 | 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 | 5/11/2004 | 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
10/27/11

| MILESTONE: | WWTP | FLOW (MGD) | M5 | | 65% PUP Submitted | 100% PUP Submitted | M6 | M7 | | M8 | M9 | Flow (MGD) |
|------------|-------------------------------------|------------|--|-------------------------------|-------------------|--------------------|------------|--|-----------------------|------------|------------|------------|
| | | | CUP Approved & Authorization to Proceed with Facility Plan | Draft Facility Plan Submitted | | | | FUP Approval DEP Authorization to Proceed with Bidding | Construction Start Up | | | |
| 13 | Golden Acres Farm | 0.0092 | 10/30/2000 | 5/7/2001 | 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 | √ | 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 | 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 | 1/14/2002 | 4/2/2002 | 5/24/2002 | 8/12/2002 | 11/7/2002 | 7/2/2003 | 7/30/2003 | 0.007 |
| 17 | Liftside ² | 0.081 | 5/10/2000 | 10/10/2000 | 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 | √ | 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 | 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 | 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 | √ | 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
10/27/11

| MILESTONE: | M5 | M6 | M7 | M8 | M9 | M9 | | | | | | | |
|---|------------|---|-------------------------------|---|-------------------|--------------------|------------------|-----------------------|---------------------------------------|-----------------------|--|--|---|
| WWTP | FLOW (MGD) | CUP Approved & Authorized to Proceed with Facility Plan | Draft Facility Plan Submitted | Facility Plan Approved & Authorized to Proceed with PUP | 65% PUP Submitted | 100% PUP Submitted | PUP Approval DEP | FUP Approval DEP | Authorization to Proceed with Bidding | Construction Start Up | Functional Completion Certification from Owner | DEP Certification of Functional Completion Start-Up & Perform. | 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 | 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 | 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 | 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/ Morningstar /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 | 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 | 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 | 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 | 8/15/2001 | 5/6/2002 | 8/16/2002 | 1.6 |

WOH FAD WWTP Upgrade Program Progress Report
10/27/11

MILESTONE:

| WWTP | FLOW (MGD) | 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 & Performance 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 | 37 | 37 | 3.9489 |

100% of flow has begun upgraded operations

Note: An amendment, Amendment #4 to the EFC/DEP WWTP Upgrade Agreement, to disperse 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.