

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

**WWTP Water Quality Sampling Monitoring Semiannual Report
(January 1 – June 30, 2017)**

August 2017

*Prepared in accordance with Section 6.2 of the NYSDOH
Revised 2007 Filtration Avoidance Determination*



Prepared by: DEP, Bureau of Water Supply

Introduction

The attached computer output was prepared in accordance with DEP's 2016 Long-term Watershed Protection Program and NYSDOH's final revised 2007 Filtration Avoidance Determination. It reports the results of DEP's monitoring of all New York City-owned wastewater treatment plants (WWTPs) and all non-City-owned WWTPs discharging in the Catskill and Delaware (CAT/DEL) watersheds from January 1, 2017 through June 30, 2017.

The computer output is divided into three tables. The first table, a subset of the second table, lists all of the DEP samples that contravened State Pollutant Discharge Elimination System (SPDES) limits. The second table shows the results by sample date of a comparison between effluent concentrations in DEP's samples with the limits for the corresponding parameters in the SPDES permits that are currently on file with DEP. The third table is a listing of the raw data for all samples collected in this half year period. Note that DEP's samples are surveillance, not regulatory samples, and single samples that exceed limits may not constitute true SPDES violations.

The third table of this report is simply an output of the raw data and, as such, includes coding conventions where applicable. Parameters not detected in the effluent are indicated with a "<" sign and the detection limit. For example, <0.20 in the NH₃ column means that the total ammonia concentration in the effluent was less than the detection limit of 0.20 mgL⁻¹. Errors occurring in the field or in the lab are noted by "Error". Fcoli code E means estimated. Fcoli code TNTC means "too numerous to count".

This report mainly tabulates effluent data; however, influent data are included as the first entry in Table 3 for the five plants that require percent removal calculations (Grand Gorge, Pine Hill, Tannersville, Grahamsville, and Margaretville).

Table 1. DEP samples that contravened SPDES limits January - June 2017.

Catskill System:

Facility	Date	Parameter	Daily Measurement	SPDES Limit
Trailside at Hunter LLC	19JAN17	pH	5.72	6.5 - 8.5
Trailside at Hunter LLC	19JAN17	Tot. Chlor. Res.	4.80	0.1 mgL ⁻¹
Trailside at Hunter LLC	19JAN17	Ammonia	6.66	2.0 mgL ⁻¹
Trailside at Hunter LLC	19JAN17	Ammonia	15.4	2.0 mgL ⁻¹
Trailside at Hunter LLC	16FEB17	Ammonia	3.42	2.0 mgL ⁻¹
Windham	06APR17	Tot. Chlor. Res.	0.16	0.1 mgL ⁻¹

Delaware System:

Facility	Date	Parameter	Daily Measurement	SPDES Limit
Fleischmanns	04JAN17	CBOD	>18.9	5 mgL ⁻¹
Fleischmanns	03MAR17	pH	6.47	6.5 - 8.5
Fleischmanns	07JUN17	CBOD	>18.9	5 mgL ⁻¹
Denver Sewer Corp.	01FEB17	CBOD	11.5	5 mgL ⁻¹
Robert W. Harold Campus	19APR17	pH	6.34	6.5 - 8.5
Stamford	03MAY17	Tot. Chlor. Res.	0.32	0.1 mgL ⁻¹

Table 2. Results of the comparison of effluent concentrations in DEP's samples with the limits of SPDES permits January - June 2017.

Catskill System:

Ashland WTP

date	Parameter	SPDES Violation	SPDES Limit
01JAN17		no violations	
02FEB17		no violations	
01MAR17		no violations	
19APR17		no violations	
17MAY17		no violations	
01JUN17		no violations	

Boiceville WWTP

date	Parameter	SPDES Violation	SPDES Limit
12JAN17		no violations	
16FEB17		no violations	
23MAR17		no violations	
19APR17		no violations	
17MAY17		no violations	
21JUN17		no violations	

Camp Machne Tashbar - seasonal facility

date	Parameter	SPDES Violation	SPDES Limit
14JUN17		no violations	

Camp Timberlake - seasonal facility

date	Parameter	SPDES Violation	SPDES Limit
14JUN17		no violations	

Elka Park Association (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
12JAN17		no violations	
16FEB17		no violations	
16MAR17		no violations	
05APR17		no violations	

10MAY17 no violations
Elka Park Association (summer limits)

date	Parameter	SPDES Violation	SPDES Limit
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07JUN17 no violations

Grand Gorge (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
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03JAN17 no violations
04JAN17 no violations
17JAN17 no violations
18JAN17 no violations
07FEB17 no violations
08FEB17 no violations
21FEB17 no violations
22FEB17 no violations
07MAR17 no violations
08MAR17 no violations
21MAR17 no violations
22MAR17 no violations
04APR17 no violations
05APR17 no violations
18APR17 no violations
19APR17 no violations
02MAY17 no violations
03MAY17 no violations
16MAY17 no violations
17MAY17 no violations

Grand Gorge (summer limits)

date	Parameter	SPDES Violation	SPDES Limit
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06JUN17 no violations
07JUN17 no violations
20JUN17 no violations
21JUN17 no violations

Grand Gorge--% removals

date	Parameter	SPDES Violation	SPDES Limit
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03JAN17 % removals okay
17JAN17 % removals okay
07FEB17 % removals okay
21FEB17 % removals okay
07MAR17 % removals okay

21MAR17 % removals okay
 Grand Gorge--% removals - continued

date	Parameter	SPDES Violation	SPDES Limit
04APR17		% removals okay	
18APR17		% removals okay	
02MAY17		% removals okay	
16MAY17		% removals okay	
06JUN17		% removals okay	
20JUN17		% removals okay	

Trailside at Hunter LLC (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
19JAN17	Tot. Chlor. Res.	4.80	0.1 mgL ⁻¹
19JAN17	pH	5.72	6.5 - 8.5
19JAN17	Ammonia	6.66	2.0 mgL ⁻¹
19JAN17	Ammonia	15.4	2.0 mgL ⁻¹
16FEB17	Ammonia	3.42	2.0 mgL ⁻¹
23MAR17		no violations	
05APR17		no violations	
10MAY17		no violations	

Trailside at Hunter LLC (summer limits)

date	Parameter	SPDES Violation	SPDES Limit
21JUN17		no violations	

Hunter (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
12JAN17		no violations	
23JAN17		no violations	
16FEB17		no violations	
16MAR17		no violations	
05APR17		no violations	
24APR17		no violations	
10MAY17		no violations	

Hunter (summer limits)

date	Parameter	SPDES Violation	SPDES Limit
07JUN17		no violations	

Mountain View Estates

date	Parameter	SPDES Violation	SPDES Limit
01MAR17		no violations	

Olive Woods LLC (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
01JAN17		no violations	
08FEB17		no violations	
09MAR17		no violations	
06APR17		no violations	
11MAY17		no violations	

Olive Woods LLC (summer limits)

date	Parameter	SPDES Violation	SPDES Limit
01JUN17		no violations	

Pine Hill (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
03JAN17		no violations	
04JAN17		no violations	
17JAN17		no violations	
18JAN17		no violations	
07FEB17		no violations	
08FEB17		no violations	
21FEB17		no violations	
22FEB17		no violations	
07MAR17		no violations	
08MAR17		no violations	
21MAR17		no violations	
22MAR17		no violations	
04APR17		no violations	
05APR17		no violations	
18APR17		no violations	
19APR17		no violations	
25APR17		no violations	
02MAY17		no violations	
03MAY17		no violations	
16MAY17		no violations	
17MAY17		no violations	

Pine Hill (summer limits)

date	Parameter	SPDES Violation	SPDES Limit
06JUN17		no violations	
07JUN17		no violations	
20JUN17		no violations	
21JUN17		no violations	

Pine Hill--% removals

date	Parameter	SPDES Violation	SPDES Limit
03JAN17		% removals okay	
17JAN17		% removals okay	
07FEB17		% removals okay	
21FEB17		% removals okay	
07MAR17		% removals okay	
21MAR17		% removals okay	
04APR17		% removals okay	
18APR17		% removals okay	
25APR17		% removals okay	
02MAY17		% removals okay	
16MAY17		% removals okay	
06JUN17		% removals okay	
20JUN17		% removals okay	

Prattsville WTP

date	Parameter	SPDES Violation	SPDES Limit
04JAN17		no violations	
23JAN17		no violations	
02FEB17		no violations	
01MAR17		no violations	
06APR17		no violations	
24APR17		no violations	
04MAY17		no violations	
01JUN17		no violations	

Tannersville (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
03JAN17		no violations	
04JAN17		no violations	
17JAN17		no violations	
18JAN17		no violations	
07FEB17		no violations	

08FEB17

no violations
Tannersville (winter limits) - continued

date	Parameter	SPDES Violation	SPDES Limit
21FEB17		no violations	
22FEB17		no violations	
07MAR17		no violations	
08MAR17		no violations	
21MAR17		no violations	
22MAR17		no violations	
04APR17		no violations	
05APR17		no violations	
18APR17		no violations	
19APR17		no violations	
02MAR17		no violations	
03MAR17		no violations	
16MAR17		no violations	
17MAR17		no violations	

Tannersville (summer limits)

date	Parameter	SPDES Violation	SPDES Limit
06JUN17		no violations	
07JUN17		no violations	
20JUN17		no violations	
21JUN17		no violations	

Tannersville--% removals

date	Parameter	SPDES Violation	SPDES Limit
03JAN17		% removals okay	
17JAN17		% removals okay	
07FEB17		% removals okay	
21FEB17		% removals okay	
07MAR17		% removals okay	
21MAR17		% removals okay	
04APR17		% removals okay	
18APR17		% removals okay	
02MAY17		% removals okay	
16MAY17		% removals okay	
07JUN17		% removals okay	
20JUN17		% removals okay	

Windham (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
04JAN17		no violations	
16FEB17		no violations	
27FEB17		no violations	
16MAR17		no violations	
06APR17	Tot. Chlor. Res.	0.16	0.1 mgL ⁻¹
04MAY17		no violations	
22MAY17		no violations	

Windham (summer limits)

date	Parameter	SPDES Violation	SPDES Limit
01JUN17		no violations	

Delaware System:

Andes

date	Parameter	SPDES Violation	SPDES Limit
11JAN17		no violations	
08FEB17		no violations	
08MAR17		no violations	
22MAR17		no violations	
19APR17		no violations	
10MAR17		no violations	
14JUN17		no violations	
26JUN17		no violations	

Delhi WWTP

date	Parameter	SPDES Violation	SPDES Limit
11JAN17		no violations	
08FEB17		no violations	
08MAR17		no violations	
19APR17		no violations	
10MAY17		no violations	
14JUN17		no violations	

Fleischmanns WWTP

date	Parameter	SPDES Violation	SPDES Limit
04JAN17	CBOD	>18.9	5 mgL ⁻¹
01FEB17		no violations	
01MAR17		no violations	
22MAR17		no violations	
19APR17		no violations	
03MAY17	pH	6.47	6.5 - 8.5
07JUN17	CBOD	>18.9	5 mgL ⁻¹

Grahamsville WWTP

date	Parameter	SPDES Violation	SPDES Limit
04JAN17		no violations	
01FEB17		no violations	
01MAR17		no violations	
05APR17		no violations	
03MAY17		no violations	
07JUN17		no violations	

Grahamsville WWTP--% removals

date	Parameter	SPDES Violation	SPDES Limit
04JAN17		% removals okay	
01FEB17		% removals okay	
01MAR17		% removals okay	
05APR17		% removals okay	
03MAY17		% removals okay	
07JUN17		% removals okay	

Hanah Country Inn and Golf Resort

date	Parameter	SPDES Violation	SPDES Limit
11JAN17		no violations	
08FEB17		no violations	
08MAR17		no violations	
19APR17		no violations	
10MAY17		no violations	
14JUN17		no violations	

Hobart

date	Parameter	SPDES Violation	SPDES Limit
04JAN17		no violations	
01FEB17		no violations	
01MAR17		no violations	
05APR17		no violations	
03MAY17		no violations	
07JUN17		no violations	

Margaretville

date	Parameter	SPDES Violation	SPDES Limit
03JAN17		no violations	
04JAN17		no violations	
17JAN17		no violations	
18JAN17		no violations	
07FEB17		no violations	
08FEB17		no violations	
21FEB17		no violations	
22FEB17		no violations	
07MAR17		no violations	
08MAR17		no violations	
21MAR17		no violations	
22MAR17		no violations	

04APR17

no violations

Margaretville - continued

date	Parameter	SPDES Violation	SPDES Limit
05APR17		no violations	
18APR17		no violations	
19APR17		no violations	
02MAY17		no violations	
03MAY17		no violations	
16MAY17		no violations	
17MAY17		no violations	
06JUN17		no violations	
07JUN17		no violations	
20JUN17		no violations	
21JUN17		no violations	

Margaretville--% removals

date	Parameter	SPDES Violation	SPDES Limit
03JAN17		% removals okay	
17JAN17		% removals okay	
07FEB17		% removals okay	
21FEB17		% removals okay	
07MAR17		% removals okay	
21MAR17		% removals okay	
04APR17		% removals okay	
18APR17		% removals okay	
02MAY17		% removals okay	
16MAY17		% removals okay	
06JUN17		% removals okay	
20JUN17		% removals okay	

Mountainside Farms Inc.

date	Parameter	SPDES Violation	SPDES Limit
04JAN17		no violations	
25JAN17		no violations	
01FEB17		no violations	
01MAR17		no violations	
05APR17		no violations	
10MAY17		no violations	
07JUN17		no violations	
14JUN17		no violations	

Denver Sewer Corp.

date	Parameter	SPDES Violation	SPDES Limit
04JAN17		no violations	
01FEB17	CBOD	11.5	5 mgL ⁻¹
01MAR17		no violations	
05APR17		no violations	
03MAY17		no violations	
07JUN17		no violations	

Stamford WWTP

date	Parameter	SPDES Violation	SPDES Limit
04JAN17		no violations	
01FEB17		no violations	
01MAR17		no violations	
27MAR17		no violations	
05APR17		no violations	
03MAY17	Tot. Chlor. Res.	0.32	0.1 mgL ⁻¹
07JUN17		no violations	
13JUN17		no violations	

Walton WWTP

date	Parameter	SPDES Violation	SPDES Limit
11JAN17		no violations	
08FEB17		no violations	
08MAR17		no violations	
19APR17		no violations	
10MAY17		no violations	
14JUN17		no violations	

Robert W. Harold Campus

date	Parameter	SPDES Violation	SPDES Limit
11JAN17		no violations	
08FEB17		no violations	
08MAR17		no violations	
19APR17	pH	6.34	6.5 - 8.5
10MAY17		no violations	
14JUN17		no violations	

Clear Pool Camp

date	Parameter	SPDES Violation	SPDES Limit
07MAR17		no violations	
13APR17		no violations	
01MAY17		no violations	
10MAY17		no violations	
26JUN17		no violations	

Catskill System

Table 3. Raw Data for CAT/DEL WWTP effluent samples collected January - June 2017. Influent data (*) is included as the first entry for the five plants that require percent removal calculations (Grand Gorge, Pine Hill, Tannersville, Grahamsville, and Margaretville).

PLANT	SAMPDATE	FLOW	BOD5	CBOD5	CL	DO	FCOLI	NH3	NO3	PH	SETSLDS	SUSPSLDS	TCREFF	TEMP	TP	TURB	MBAS	TDS	TKN
Ashland WTP	2017-01-04	0.01	<3.0			10.3	<1	0.24		6.57	<0.1	<1.0		9.4	71	<0.1			
Ashland WTP	2017-02-02	0.018	<3.0			10.4	<1	0.48		6.60	<0.1	<1.0		7.7	26	0.10			
Ashland WTP	2017-03-01	0.024	<3.0			9.5	<1	0.43		6.65	<0.1	<1.0		10.2	20	0.20			
Ashland WTP	2017-04-19	0.022	<3.0			11.0	<1	0.33		6.88	<0.1	<1.0		8.6	413	<0.1			
Ashland WTP	2017-05-17		<3.0			10.2	<1	0.83		7.20	<0.1	<1.0		11.7	688	0.10			
Ashland WTP	2017-06-01		<3.0			9.8	<1	<0.20		7.32	<0.1	<1.0		14.1	140	<0.1			
Boiceville WTP	2017-01-12	0.016		<3.0		11.1	<1	<0.20		7.43	<0.1	<1.0		12.7	39	0.15			
Boiceville WTP	2017-02-16	0.022		<3.0		10.9	<1	0.56		7.60	<0.1	<1.0		11.4	126	0.25			
Boiceville WTP	2017-03-23			<3.0		11.3	<1	0.24		6.99	<0.1	<1.0		10.9	71	0.15			
Boiceville WTP	2017-04-19	0.018		<3.0		10.7	<1	0.22		7.24	<0.1	<1.0		13.6	96	0.35			
Boiceville WTP	2017-05-17	0.026		<3.0		10.1	<1	0.28		7.27	<0.1	<1.0		17.1	106	0.20			
Boiceville WTP	2017-06-21	0.022		<3.0		9.5	<1	<0.20		7.82	<0.1	<1.0		19.9	362	0.20			
Camp Machne Tashbar	2017-06-14			<3.0		8.5	<1	<0.20		8.02	<0.1	1.1	<0.04	20.5	18	1.4			
Camp Timberlake	2017-06-14			<3.0		8.7	<1	<0.20		7.30	<0.1	<1.0		19.4	246	0.15			
Elka Park	2017-01-12			<3.0		11.3	<1	<0.20		7.31	<0.1	<1.0		7.9	62	0.10			
Elka Park	2017-02-16			<3.0		11.4	<1	<0.20		7.67	<0.1	<1.0		5.8	112	0.10			
Elka Park	2017-03-16			<3.0		10.3	<1	<0.20		6.79	<0.1	<1.0		9.3	83	0.15			
Elka Park	2017-04-05	0.013		<3.0		12.1	<1	<0.20		7.29	<0.1	<1.0		5.0	29	0.10			
Elka Park	2017-05-10	0		<3.0		9.7	<1	<0.20		7.34	<0.1	<1.0		14.1	103	0.30			
Elka Park	2017-06-07			<3.0		10.0	<1	<0.20		7.39	<0.1	<1.0		12.7	83	0.10			
Grand Gorge *	2017-01-03			108								87.0							
Grand Gorge	2017-01-03			<3.0				<0.20				<1.0			10				
Grand Gorge	2017-01-04						<1												
Grand Gorge *	2017-01-17			93.0								99.0							
Grand Gorge	2017-01-17			<3.0				<0.20				<1.1			16				
Grand Gorge	2017-01-18						<1												
Grand Gorge *	2017-02-07			91.4								88.0							
Grand Gorge	2017-02-07			<3.0				<0.20				<1.1			15				
Grand Gorge	2017-02-08						<1												
Grand Gorge *	2017-02-21			58.6								71.0							
Grand Gorge	2017-02-21			<3.0				<0.20				<1.1			15				
Grand Gorge	2017-02-22						<1												
Grand Gorge *	2017-03-07			74.2								35.5							
Grand Gorge	2017-03-07			<3.0				<0.20				<1.0			16				
Grand Gorge	2017-03-08						<1												
Grand Gorge *	2017-03-21			103								111							
Grand Gorge	2017-03-21			<3.0				<0.20				<1.0			9				
Grand Gorge	2017-03-22						<1												
Grand Gorge *	2017-04-04			38.2								73.5							
Grand Gorge	2017-04-04			<3.0				<0.20				<1.1			10				
Grand Gorge	2017-04-05						<1												
Grand Gorge *	2017-04-18			90.8								75.0							
Grand Gorge	2017-04-18			<3.0				<0.20				<1.1			11				

Catskill System

PLANT	SAMPDATE	FLOW	BOD5	CBOD5	CL	DO	FCOLI	NH3	NO3	PH	SETSLDS	SUSPSLDS	TCREFF	TEMP	TP	TURB	MBAS	TDS	TKN
Grand Gorge	2017-04-19						<1												
Grand Gorge *	2017-05-02			51.1								88.0							
Grand Gorge	2017-05-02			<3.0				<0.20				<1.0			54				
Grand Gorge	2017-05-03						<1												
Grand Gorge *	2017-05-16			58.2								58.7							
Grand Gorge	2017-05-16			<3.0				<0.20				<1.1			33				
Grand Gorge	2017-05-17						<1												
Grand Gorge *	2017-06-06			65.3								44.0							
Grand Gorge	2017-06-06			<3.0				<0.20				<1.1			55				
Grand Gorge	2017-06-07						<1												
Grand Gorge *	2017-06-20			64.4								82.0							
Grand Gorge	2017-06-20			<3.0				<0.20				<1.0			44				
Grand Gorge	2017-06-21						<1												
Trailside at Hunter LLC	2017-01-19			<3.0				6.66				<1.0	4.80		36				
Trailside at Hunter LLC	2017-01-19	0		3.6		10.9	<1	15.4		5.72	<0.1	<1.0	<0.04	5.6	31	0.55			
Trailside at Hunter LLC	2017-02-16	0.041		<3.0		10.9	<1	3.42		6.60	<0.1	<1.0	<0.04	4.0	19	0.45			
Trailside at Hunter LLC	2017-03-23	0.0179		3.6		9.2	<1	<0.20		6.79	<0.1	<1.0	<0.04	6.2	13	0.15			
Trailside at Hunter LLC	2017-04-05	0.048		<3.0		11.2	E3	<0.20		7.05	<0.1	<1.0	<0.04	6.7	14	0.30			
Trailside at Hunter LLC	2017-05-10	0.0078		<3.0		10.2	<1	<0.20		6.90	<0.1	<1.0	<0.04	10.4	10	0.15			
Trailside at Hunter LLC	2017-06-21	0.0096		<3.0		7.5	E2	<0.20		7.05	<0.1	<1.0	<0.04	20.9	12	0.15			
Hunter WTP	2017-01-12	0.131	3.4			12.0	<1	<0.20		6.56	<0.1	<1.0	<0.04	7.5	13	0.20			
Hunter WTP	2017-01-23									6.86				8.3		0.15			
Hunter WTP	2017-02-16		<3.0					<0.20				<1.0	<0.04		12				
Hunter WTP	2017-02-16		<3.0			12.6	<1	<0.20		6.85	0.1	2.0	0.23	5.1	27	0.45			
Hunter WTP	2017-03-16	0.1889	<3.0			12.8	<1	<0.20		6.60	<0.1	<1.0	<0.04	3.7	15	0.15			
Hunter WTP	2017-04-05	0.37	<3.0			11.8	<1	<0.20		6.80	<0.1	<1.1	0.08	7.2	8	0.15			
Hunter WTP	2017-04-24									7.04				10.3		0.20			
Hunter WTP	2017-05-10	0.183	<3.0			10.5	<1	<0.20		6.49	<0.1	<1.0	<0.04	10.6	10	0.15			
Hunter WTP	2017-06-07	0.1883	<3.0			9.6	<1	<0.20		6.87	<0.1	<1.0	0.12	14.0	17	0.20			
Mountain View Estates	2017-03-01			<3.0		9.7	<1	<0.20		7.73	<0.1	<1.0		11.7	208	0.10			
Olive Woods	2017-01-19	0.0056		<3.0		11.7	<1	<0.20		7.29	<0.1	<1.0		8.6	8	0.15			
Olive Woods	2017-02-08	0.0008		<3.0		10.8	<1	<0.20		7.62	<0.1	<1.0		10.6	14	0.10			
Olive Woods	2017-03-09	0.0052		<3.0		11.1	<1	<0.20		7.91	<0.1	<1.0		10.0	34	0.75			
Olive Woods	2017-04-06	0.004		<3.0		11.6	<1	<0.20		7.34	<0.1	<1.0		7.8	4	0.10			
Olive Woods	2017-05-11	0.001		<3.0		10.5	<1	<0.20		7.68	<0.1	<1.1		12.4	7	0.10			
Olive Woods	2017-06-08	0.0011		<3.0		10.0	E1	0.50		7.79	<0.1	<1.0		15.1	7	0.10			
Pine Hill *	2017-01-03		105									100							
Pine Hill	2017-01-03		<3.0					2.06				<1.1			54				
Pine Hill	2017-01-04						<1												
Pine Hill *	2017-01-17		62.6									67.0							
Pine Hill	2017-01-17		<3.0					0.92				<1.1			35				

Catskill System

PLANT	SAMPDATE	FLOW	BOD5	CBOD5	CL	DO	FCOLI	NH3	NO3	PH	SETSLDS	SUSPSLDS	TCREFF	TEMP	TP	TURB	MBAS	TDS	TKN
Pine Hill	2017-01-18						<1												
Pine Hill *	2017-02-07		77.2									74.0							
Pine Hill	2017-02-07		<3.0					<0.20				<1.0			40				
Pine Hill	2017-02-08						<1												
Pine Hill *	2017-02-21		97.2									119							
Pine Hill	2017-02-21		<3.0					0.39				<1.1			44				
Pine Hill	2017-02-22						<1												
Pine Hill *	2017-03-07		72.2									81.0							
Pine Hill	2017-03-07		<3.0					<0.20				<1.1			27				
Pine Hill	2017-03-08						<1												
Pine Hill *	2017-03-21		105									166							
Pine Hill	2017-03-21		<3.0					<0.20				<1.1			12				
Pine Hill	2017-03-22						<1												
Pine Hill *	2017-04-04		50									40.3							
Pine Hill	2017-04-04		<3.0					<0.20				<1.0			11				
Pine Hill	2017-04-05						<1												
Pine Hill *	2017-04-18		54.6									73.0							
Pine Hill	2017-04-18		<3.0					<0.20				<1.1			8				
Pine Hill	2017-04-19						<1												
Pine Hill *	2017-04-25		74.8																
Pine Hill	2017-04-25		<3.0																
Pine Hill *	2017-05-02		33.6									42.0							
Pine Hill	2017-05-02		<3.0					<0.20				<1.1			15				
Pine Hill	2017-05-03						<1												
Pine Hill *	2017-05-16		49.4									79.2							
Pine Hill	2017-05-16		<3.0					<0.20				<1.1			11				
Pine Hill	2017-05-17						<1												
Pine Hill *	2017-06-06		99.0									170							
Pine Hill	2017-06-06		<3.0					<0.20				<1.0			13				
Pine Hill	2017-06-07						<1												
Pine Hill *	2017-06-20		59.5									95.3							
Pine Hill	2017-06-20		<3.0					<0.20				<1.1			14				
Pine Hill	2017-06-21						<1												
Prattsville WTP	2017-01-04	0.019		<3.0		7.0	<1			7.04	<0.1	<1.0		13.4	71	0.10			1.0
Prattsville WTP	2017-01-23									7.07				12.7		0.15			
Prattsville WTP	2017-02-02			<3.0								<1.1			37				0.83
Prattsville WTP	2017-02-02	0.019		<3.0		9.5	<1			7.21	<0.1	<1.1		11.9	26	0.10			0.80
Prattsville WTP	2017-03-01	0.018		<3.0		7.7	<1			6.89	<0.1	<1.0		12.5	43	0.20			1.2
Prattsville WTP	2017-04-06	0.02		<3.0		9.2	<1			7.03	<0.1	<1.0		10.7	39	0.15			0.98
Prattsville WTP	2017-04-24									6.87				11.5		0.10			
Prattsville WTP	2017-05-04	0.018		<3.0		8.1	<1			6.91	<0.1	<1.0		13.1	49	0.20			1.4
Prattsville WTP	2017-06-01	0.016		<3.0		6.3	<1			6.86	<0.1	<1.0		15.3	57	0.10			1.2
Tannersville *	2017-01-03			108								110							
Tannersville	2017-01-03			<3.0				0.50				<1.1			15				

Catskill System

PLANT	SAMPDATE	FLOW	BOD5	CBOD5	CL	DO	FCOLI	NH3	NO3	PH	SETSLDS	SUSPSLDS	TCREFF	TEMP	TP	TURB	MBAS	TDS	TKN
Tannersville	2017-01-04						<1												
Tannersville *	2017-01-17			92.0								94.0							
Tannersville	2017-01-17			<3.0				<0.20				<1.1			15				
Tannersville	2017-01-18						<1												
Tannersville *	2017-02-07			120								88.0							
Tannersville	2017-02-07			<3.0				<0.20				<1.1			22				
Tannersville	2017-02-08						<1												
Tannersville *	2017-02-21			92.8								83.0							
Tannersville	2017-02-21			<3.0				<0.20				<1.0			37				
Tannersville	2017-02-22						<1												
Tannersville *	2017-03-07			79.6								90.0							
Tannersville	2017-03-07			<3.0				<0.20				<1.1			21				
Tannersville	2017-03-08						<1												
Tannersville *	2017-03-21			88.8								130							
Tannersville	2017-03-21			<3.0				<0.20				<1.1			26				
Tannersville	2017-03-22						<1												
Tannersville *	2017-04-04			14.2								30.5							
Tannersville	2017-04-04			<3.0				0.20				<1.1			20				
Tannersville	2017-04-05						<1												
Tannersville *	2017-04-18			79.8								86.0							
Tannersville	2017-04-18			<3.0				<0.20				<1.0			34				
Tannersville	2017-04-19						<1												
Tannersville *	2017-05-02			17.6								18.7							
Tannersville	2017-05-02			<3.0				<0.20				<1.1			60				
Tannersville	2017-05-03						<1												
Tannersville *	2017-05-16			43.3								51.5							
Tannersville	2017-05-16			<3.0				<0.20				<1.1			52				
Tannersville	2017-05-17						<1												
Tannersville	2017-06-06			<3.0				<0.20				<1.1			102				
Tannersville	2017-06-07						<1												
Tannersville *	2017-06-07			28.7								34.5							
Tannersville *	2017-06-20			76.2								82.5							
Tannersville	2017-06-20			<3.0				<0.20				<1.0			260				
Tannersville	2017-06-21						<1												
Windham WTP	2017-01-04	0.21	<3.0			10.8	<1			6.34	<0.1	<1.1	<0.04	8.0	23	0.30			
Windham WTP	2017-02-16		<3.0									<1.1	<0.04		36				
Windham WTP	2017-02-16	0.197	<3.0			11.2	<1			6.43	<0.1	<1.1	<0.04	6.2	16	0.15			
Windham WTP	2017-02-27									6.59				6.4		0.15			
Windham WTP	2017-03-16		<3.0			11.8	<1			6.28	<0.1	<1.0	<0.04	4.6	19	0.15			
Windham WTP	2017-04-06	0.434	<3.0			11.9	<1			6.92	<0.1	<1.0	0.16	6.5	9	0.10			
Windham WTP	2017-05-04	0.328	<3.0			10.9	<1			6.79	<0.1	<1.0	<0.04	10.5	9	0.15			
Windham WTP	2017-05-22									6.92				11.8		0.40			
Windham WTP	2017-06-01	0.106		<3.0		10.1	<1	<0.20		7.02	<0.1	<1.0	<0.04	13.4	9	0.15			0.48

Delaware System

PLANT	SAMPDATE	FLOW	BOD5	CBOD5	CL	DO	FCOLI	NH3	NO3	PH	SETSLDS	SUSPSLDS	TCREFF	TEMP	TP	TURB	MBAS	TDS	TKN
Andes	2017-01-11	0.041	<3.0			11.2	<1	<0.20		7.59	<0.1	<1.0		8.7	19	0.10			
Andes	2017-02-08	0.04	<3.0			10.9	<1	<0.20		7.53	<0.1	<1.0		8.8	23	0.20			
Andes	2017-03-08	0.039	<3.0			10.8	<1	<0.20		7.36	<0.1	<1.1		9.8	20	0.50			
Andes	2017-03-22									7.37				8.6		0.10			
Andes	2017-04-19	0.0372	<3.0			10.4	<1	<0.20		7.65	<0.1	<1.1		10.8	12	<0.1			
Andes	2017-05-10	0.043	<3.0			9.8	<1	<0.20		7.66	<0.1	<1.0		13.4	16	0.10			
Andes	2017-06-14	0.032	<3.0			9.5	<1	<0.20		7.77	<0.1	<1.0		16.0	25	0.15			
Andes	2017-06-26									7.54				17.2		<0.1			
Delhi	2017-01-11	0.5		<3.0		9.4	<1	<0.20		7.65	<0.1	<1.1	<0.04	12.6	25	0.10			0.61
Delhi	2017-02-08	0.616		<3.0		9.0	<1	<0.20		7.49	<0.1	<1.0	<0.04	13.7	20	0.50			<0.2
Delhi	2017-03-08	0.571		<3.0		8.7	<1	0.20		7.34	<0.1	<1.0	<0.04	14.7	14	0.45			<0.2
Delhi	2017-04-19	0.686		<3.0		7.8	E2	<0.20		7.43	<0.1	<1.0	<0.04	19.4	34	0.70			<0.2
Delhi	2017-05-10	0.671		<3.0		7.5	E6	<0.20		7.41	<0.1	<1.0	<0.04	18.7	14	0.60			<0.2
Delhi	2017-06-14	0.64		<3.0		7.0	<1	<0.20		7.74	<0.1	<1.0	0.04	25.2	47	0.35			0.36
Fleischmanns	2017-01-04	0.042		>18.9		10.8	<1	<0.20		7.21	<0.1	<1.1	<0.04	9.2	9	0.15			
Fleischmanns	2017-02-01	0.041		<3.0		11.6	<1	<0.20		7.03	<0.1	<1.1	<0.04	6.8	9	0.35			
Fleischmanns	2017-03-01	0.092		<3.0		12.1	<1	<0.20		7.32	<0.1	<1.0	<0.04	6.6	9	0.15			
Fleischmanns	2017-03-22									7.27				5.4		0.15			
Fleischmanns	2017-04-19	0.0468		<3.0		10.7	<1	<0.20		7.18	<0.1	<1.0	<0.04	9.6	6	0.10			
Fleischmanns	2017-05-03	0.066		<3.0		10.3	<1	<0.20		6.47	<0.1	<1.0	0.04	10.7	13	<0.1			
Fleischmanns	2017-06-07	0.055		>18.9		10.7	<1	<0.20		7.13	<0.1	<1.0	<0.04	12.8	13	0.30			
Fleischmanns	2017-06-26									6.75				16.0		0.10			
Grahamsville	2017-01-04						<1												
Grahamsville *	2017-01-04			220								91.0							
Grahamsville	2017-01-04			<3.0				<0.20				<1.0			35				
Grahamsville	2017-02-01						<1												
Grahamsville *	2017-02-01			76.5								98.0							
Grahamsville	2017-02-01			<3.0				<0.20				<1.0			55				
Grahamsville	2017-02-08									7.33				11.5		0.20			
Grahamsville *	2017-03-01			112								101							
Grahamsville	2017-03-01			<3.0				<0.20				<1.0			82				
Grahamsville	2017-03-01						<1												
Grahamsville	2017-04-05						<1												
Grahamsville *	2017-04-05			52.0								44.6							
Grahamsville	2017-04-05			<3.0				<0.20				<1.0			63				
Grahamsville *	2017-05-03			107								174							
Grahamsville	2017-05-03			<3.0				<0.20				<1.0			84				
Grahamsville	2017-05-03						<1												
Grahamsville	2017-05-17									7.28				14.2		0.30			
Grahamsville *	2017-06-07			102								139							
Grahamsville	2017-06-07			<3.0			<1	<0.20				<1.1			195				

Delaware System

PLANT	SAMPDATE	FLOW	BOD5	CBOD5	CL	DO	FCOLI	NH3	NO3	PH	SETSLDS	SUSPSLDS	TCREFF	TEMP	TP	TURB	MBAS	TDS	TKN
Hanah Country Inn and Golf Resort	2017-01-11	0.0005				6.8				7.30		<1.1		6.5	139				
Hanah Country Inn and Golf Resort	2017-02-08	0				8.2				7.06		1.7		5.6	126				
Hanah Country Inn and Golf Resort	2017-03-08	0.004				9.6				6.69		<1.0		5.5	135				
Hanah Country Inn and Golf Resort	2017-04-19	0.002				9.1				7.24		<1.1		9.2	216				
Hanah Country Inn and Golf Resort	2017-05-10	0.001				9.1				7.15		1.1		9.7	102				
Hanah Country Inn and Golf Resort	2017-06-14	0.311				6.7				6.60		1.3		17.3	126				
Hobart	2017-01-04	0.068		<3.0		8.4	<1	<0.20		6.69	<0.1	<1.0		11.4	13	0.40			
Hobart	2017-02-01	0.094		<3.0		7.6	<1	0.20		6.44	<0.1	<1.1		11.6	18	0.15			
Hobart	2017-03-01	0.123		<3.0		8.5	<1	<0.20		6.84	<0.1	<1.0		10.2	11	0.15		410	
Hobart	2017-04-05	0.168		<3.0		9.4	<1	<0.20		6.72	<0.1	<1.0		11.0	28	0.80			
Hobart	2017-05-03	0.085		<3.0		9.1	<1	<0.20		7.06	<0.1	<1.0		14.6	17	0.10			
Hobart	2017-06-07	0.117		<3.0		7.5	<1	<0.20		6.60	<0.1	<1.0		16.0	41	0.10		530	
Margaretville *	2017-01-03			122								167							
Margaretville	2017-01-03			<3.0				<0.20				<1.1			53				
Margaretville	2017-01-04						<1												
Margaretville *	2017-01-17			75.8								60.0							
Margaretville	2017-01-17			<3.0				<0.20				<1.0			44				
Margaretville	2017-01-18						<1												
Margaretville *	2017-02-07			121								206							
Margaretville	2017-02-07			<3.0				<0.20				<1.1			55				
Margaretville	2017-02-08						<1												
Margaretville *	2017-02-21			128								168							
Margaretville	2017-02-21			<3.0				<0.20				<1.1			59				
Margaretville	2017-02-22						<1												
Margaretville *	2017-03-07			118								120							
Margaretville	2017-03-07			<3.0				5.53				<1.1			44				
Margaretville	2017-03-08						<1												
Margaretville *	2017-03-21			80.8								125							
Margaretville	2017-03-21			<3.0				7.29				<1.0			40				
Margaretville	2017-03-22						<1												
Margaretville *	2017-04-04			52.0								67.2							
Margaretville	2017-04-04			<3.0				<0.20				<1.0			26				
Margaretville	2017-04-05						<1												
Margaretville *	2017-04-18			105								124							
Margaretville	2017-04-18			<3.0				<0.20				<1.1			31				
Margaretville	2017-04-19						<1												
Margaretville *	2017-05-02			31.2								57.6							
Margaretville	2017-05-02			<3.0				<0.20				<1.1			44				
Margaretville	2017-05-03						<1												
Margaretville *	2017-05-16			96.4								165							
Margaretville	2017-05-16			<3.0				<0.20				<1.0			36				
Margaretville	2017-05-17						<1												
Margaretville *	2017-06-06			67.0								97.5							
Margaretville	2017-06-06			<3.0				<0.20				<1.1			52				
Margaretville	2017-06-07						<1												
Margaretville *	2017-06-20			116								149							
Margaretville	2017-06-20			<3.0				<0.20				<1.1			60				
Margaretville	2017-06-21						<1												

Delaware System

PLANT	SAMPDATE	FLOW	BOD5	CBOD5	CL	DO	FCOLI	NH3	NO3	PH	SETSLDS	SUSPSLDS	TCREFF	TEMP	TP	TURB	MBAS	TDS	TKN
Mountainside Farms	2017-01-04	0.074	Error		262	6.4			0.40	7.61		<1.0		20.9	22	0.15	<0.1		
Mountainside Farms	2017-01-25	0.031	<3.0																
Mountainside Farms	2017-02-01	0.034	<3.0		272	6.6			0.19	7.49		<1.0		18.9	15	0.10	<0.1		
Mountainside Farms	2017-03-01	0.029	<3.0		286	6.2			0.09	7.57		<1.1		21.7	32	0.15	<0.1		
Mountainside Farms	2017-04-05	0.037	<3.0		283	6.8			0.04	7.45		<1.1		20.4	32	0.40	<0.1		
Mountainside Farms	2017-05-10	0.038	3.3		280	7.5			0.03	7.60		4.9		21.4	66	2.0	<0.1		
Mountainside Farms	2017-06-07	0.169	<3.0		301	6.3			Error	7.63		<1.0		25.1	45	0.25	<0.1		
Mountainside Farms	2017-06-14	0.049				6.1			0.03	7.73				29.5					
Denver Sewer Corp.	2017-01-04	0.013		<3.0		10.6	6	<0.20		7.37	<0.1	<1.1	<0.04	5.3	71	0.70			
Denver Sewer Corp.	2017-02-01	0.011		11.5		10.4	<1	<0.20		7.05	<0.1	<1.2	<0.04	4.4	53	0.70			
Denver Sewer Corp.	2017-03-01	0.025		<3.0		10.9	71	<0.20		7.90	<0.1	<1.0	<0.04	6.7	54	0.35			
Denver Sewer Corp.	2017-04-05	0.033		<3.0		11.3	<1	<0.20		7.27	<0.1	<1.1	0.07	6.6	51	0.65			
Denver Sewer Corp.	2017-05-03	0.029		<3.0		10.0	46	<0.20		7.47	<0.1	<1.0	<0.04	10.7	71	1.1			
Denver Sewer Corp.	2017-06-07	0.044		<3.0		9.5	E6	<0.20		7.48	<0.1	<1.1	<0.04	12.5	68	0.35			
Stamford	2017-01-04	0.323		4.9		10.5	2	<0.20		6.44	<0.1	<1.1	<0.04	9.6	14	0.55			0.54
Stamford	2017-02-01	0.352		4.6		10.4	<1	<0.20		6.27	<0.1	<1.0	<0.04	8.0	9	0.10			0.45
Stamford	2017-03-01	0.666		4.4		10.9	5	0.30		6.81	<0.1	<1.0	<0.04	9.7	11	0.15			0.4
Stamford	2017-03-27									6.61				6.6		0.15			
Stamford	2017-04-05	0.879		3.2		11.1	E2	0.54		6.81	<0.1	<1.0	<0.04	8.0	10	0.30			1
Stamford	2017-05-03	0.702		<3.0		10.3	<1	0.25		6.81	<0.1	<1.2	0.32	11.5	7	0.20			0.68
Stamford	2017-06-07	0.868		<3.0		9.6	E1	<0.20		6.92	<0.1	<1.0	<0.04	12.2	7	0.35			0.36
Stamford	2017-06-13									6.77				14.3		0.20			
Robert W. Harold Campus	2017-01-11	0.004		<3.0		6.0	<1	<0.20		7.33	<0.1	<1.1		19.9	91	0.10		1500	
Robert W. Harold Campus	2017-02-08	0.003		<3.0		8.3	<1	<0.20		7.47	<0.1	<1.1		12.7	94	0.10		1100	
Robert W. Harold Campus	2017-03-08	0.003		<3.0		6.1	<1	<0.20		7.03	<0.1	<1.0		16.7	73	0.55		1000	
Robert W. Harold Campus	2017-04-19	0.002		<3.0		7.2	<1	0.46		6.34	<0.1	<1.0		17.8	25	0.10		800	
Robert W. Harold Campus	2017-05-10	0.005		<3.0		7.1	<1	<0.20		6.90	<0.1	<1.0		17.0	122	0.10		990	
Robert W. Harold Campus	2017-06-14	0.005		<3.0		7.2	<1	<0.20		6.95	<0.1	<1.0		20.1	84	0.35		960	
Walton	2017-01-11	1.465		<3.0		10.0	<1	<0.20		7.38	<0.1	<1.0	<0.04	13.0	11	0.20			0.74
Walton	2017-02-08	1.3		3.2		9.6	<1	<0.20		7.55	<0.1	<1.0	<0.04	14.2	14	0.15			0.9
Walton	2017-03-08	1.469		<3.0		9.8	<1	0.21		7.16	<0.1	<1.1	<0.04	13.4	16	0.35			0.68
Walton	2017-04-19	1.47		14.6		9.5	<1	0.66		7.26	<0.1	<1.0	<0.04	15.2	7	0.15			1.4
Walton	2017-05-10	1.699		<3.0		9.3	<1	0.80		7.34	<0.1	<1.0	<0.04	15.3	10	0.15			1.6
Walton	2017-06-14	1.544		3.7		8.4	<1	4.42		7.17	<0.1	<1.0	0.04	21.3	37	0.50			6.1
CLEAR POOL CAMP	2017-03-07			<3.0		9.4	<1	0.28		8.16	<0.1	2.0		16.2	43				
CLEAR POOL CAMP	2017-04-13	0.003		<3.0		7.6	<1	<0.20		7.67	<0.1	<1.0		21.6	13				
CLEAR POOL CAMP	2017-05-01			Error		7.0	<1	<0.20		7.26	<0.1	<1.0		22.6	17				
CLEAR POOL CAMP	2017-05-10			<3.0															
CLEAR POOL CAMP	2017-06-26	0																	