



State Pollutant Discharge Elimination System (SPDES) DISCHARGE PERMIT

SIC Code: 4941	NAICS Code: 221310	SPDES Number:	NY 028 1042
Discharge Class (CL): 01	DEC Number:		3-9903-00102/00002
Toxic Class (TX): N	Effective Date (EDP):		09/01/2019
Major-Sub Drainage Basin: 13 – 01, 02, 03, 06, 07, 17-01	Expiration Date (ExDP):		08/31/2024
Water Index Number: H-, ER-	Item No.: Multiple	Modification Dates (EDPM): 12/15/2020 MOD 1 09/09/2021 MOD 2 10/07/2021 MOD 3 04/27/2022 MOD 4 EDPM MOD 5	
Compact Area: IEC			

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the Clean Water Act, as amended, (33 U.S.C. 1251 et.seq.)

PERMITTEE NAME AND ADDRESS			
Name:	NYC Department of Environmental Protection	Attention:	Melissa Beristain, Accountable Manager
Street:	465 Columbus Avenue		
City:	Valhalla	State:	NY Zip Code: 10595
Email:	mberistain@dep.nyc.gov	Phone:	(646) 457-8799

is authorized to discharge from the facility described below:

FACILITY NAME, ADDRESS, AND PRIMARY OUTFALL									
Name:	NYCDEP Catskill Aqueduct								
Address / Location:	See Outfall Summary					County:	See Outfall Summary		
City:	See Outfall Summary				State:	NY	Zip Code: -		
Facility Location:	Latitude:	°	'	" N	& Longitude:	°	'	" W	
Primary Outfall No.:	See Outfall Summary	Latitude:	°	'	" N	& Longitude:	°	'	" W
Wastewater Description:	See Outfall Summary	Receiving Water:	See Outfall Summary	NAICS:	4941	Class:	Multiple		

and the additional outfalls listed in this permit, in accordance with: effluent limitations; monitoring and reporting requirements; other provisions and conditions set forth in this permit; and 6 NYCRR Part 750-1 and 750-2.

This permit and the authorization to discharge shall expire on midnight of the expiration date shown above and the permittee shall not discharge after the expiration date unless this permit has been renewed or extended pursuant to law. To be authorized to discharge beyond the expiration date, the permittee shall apply for permit renewal not less than 180 days prior to the expiration date shown above.

DISTRIBUTION:

Kirsten Jedd-Barry, DEC DOW
Lorraine Gregory, DEC DOW
EPA Region II
Phil Simmons, NYCDEP
(cont'd on Page 2)

Permit Administrator:			
Address:	21 South Putt Corners Rd, New Paltz NY 12561		
Signature:		Date:	//

DISTRIBUTION (CONTINUED):

Town of New Paltz Supervisor
Town of Olive Supervisor
Town of Marbletown Supervisor
Town of Gardiner Supervisor
Town of Montgomery Supervisor
Town of New Windsor Supervisor
Village of Nelsonville Supervisor
Town of Philipstown Supervisor
Town of Cortlandt Supervisor
Town of Yorktown Supervisor
Town of Mount Pleasant Supervisor
Village of Pleasantville Supervisor
Ulster County DOH
Putnam County DOH
Orange County DOH
Westchester County DOH
Interstate Environmental Commission

DRAFT

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SUMMARY OF ADDITIONAL OUTFALLS

Outfall	Wastewater Description	NAICS Code	Outfall Latitude			Outfall Longitude		
01A	Aqueduct Unwatering	4941	41 °	56 '	46.99 " N	74 °	12 '	21.17 " W
Municipality:	Olive (T)					County:	Ulster	
Receiving Water:	Internal Outfall					Class:	-	
Outfall	Wastewater Description	NAICS Code	Outfall Latitude			Outfall Longitude		
01N	Aqueduct Unwatering	4941	41 °	45 '	56.24 " N	74 °	07 '	13.77 " W
Municipality:	New Paltz (T)					County:	Ulster	
Receiving Water:	Internal Outfall					Class:	-	
Outfall	Wastewater Description	NAICS Code	Outfall Latitude			Outfall Longitude		
003	Biofilm and Construction Wash Waters	4941	41 °	56 '	11.28 " N	74 °	12 '	35.56 " W
Municipality:	Olive (T)					County:	Ulster	
Receiving Water:	Esopus Creek					Class:	B	
Outfall	Wastewater Description	NAICS Code	Outfall Latitude			Outfall Longitude		
008	Biofilm and Construction Wash Waters	4941	41 °	55 '	26.70 " N	74 °	12 '	17.40 " W
Municipality:	Olive (T)					County:	Ulster	
Receiving Water:	Tributary of Esopus Creek					Class:	C	
Outfall	Wastewater Description	NAICS Code	Outfall Latitude			Outfall Longitude		
010	Chlorinated Aqueduct Waters	4941	41 °	53 '	48.50 " N	74 °	09 '	53.59 " W
Municipality:	Marbletown (T)					County:	Ulster	
Receiving Water:	Esopus Creek					Class:	B(T)	
Outfall	Wastewater Description	NAICS Code	Outfall Latitude			Outfall Longitude		
013	Chlorinated Aqueduct Waters	4941	41 °	49 '	38.39 " N	74 °	08 '	53.24 " W
Municipality:	Marbletown (T)					County:	Ulster	
Receiving Water:	Tributary of Rondout Creek					Class:	C	
Outfall	Wastewater Description	NAICS Code	Outfall Latitude			Outfall Longitude		
014	Chlorinated Aqueduct Waters	4941	41 °	49 '	32.57 " N	74 °	08 '	47.29 " W
Municipality:	Marbletown (T)					County:	Ulster	
Receiving Water:	Tributary of Rondout Creek					Class:	C	
Outfall	Wastewater Description	NAICS Code	Outfall Latitude			Outfall Longitude		
015	Chlorinated Aqueduct Waters	4941	41 °	49 '	19.53 " N	74 °	08 '	29.59 " W
Municipality:	Marbletown (T)					County:	Ulster	
Receiving Water:	Rondout Creek					Class:	B	
Outfall	Wastewater Description	NAICS Code	Outfall Latitude			Outfall Longitude		
017	Chlorinated Aqueduct Waters	4941	41 °	46 '	13.07 " N	74 °	07 '	32.88 " W
Municipality:	New Paltz (T)					County:	Ulster	
Receiving Water:	New Paltz Lower Reservoir					Class:	AA	

Outfall	Wastewater Description	NAICS Code	Outfall Latitude				Outfall Longitude			
018	Biofilm and Construction Wash Waters	4941	41 °	44 '	26.88 "	N	74 °	09 '	3.58 " W	
Municipality: New Paltz (T)							County: Ulster			
Receiving Water: Groundwater							Class: GA			
Outfall	Wastewater Description	NAICS Code	Outfall Latitude				Outfall Longitude			
022	Biofilm and Construction Wash Waters	4941	41 °	39 '	34 "	N	74 °	08 '	26 " W	
Municipality: Gardiner (T)							County: Ulster			
Receiving Water: Walkill River							Class: B			
Outfall	Wastewater Description	NAICS Code	Outfall Latitude				Outfall Longitude			
033	Biofilm and Construction Wash Waters	4941	41 °	28 '	40.08 "	N	74 °	05 '	13.04 " W	
Municipality: New Windsor (T)							County: Orange			
Receiving Water: Sub-tributary of Lake Washington							Class: A			
Outfall	Wastewater Description	NAICS Code	Outfall Latitude				Outfall Longitude			
042	Biofilm and Construction Wash Waters	4941	41 °	25 '	46.66 "	N	73 °	56 '	18.63 " W	
Municipality: Nelsonville (V)							County: Putnam			
Receiving Water: Foundry Brook							Class: C(T)			
Outfall	Wastewater Description	NAICS Code	Outfall Latitude				Outfall Longitude			
047	Biofilm and Construction Wash Waters	4941	41 °	24 '	13.70 "	N	73 °	55 '	23.36 " W	
Municipality: Philipstown (T)							County: Putnam			
Receiving Water: Indian Brook							Class: C(T)			
Outfall	Wastewater Description	NAICS Code	Outfall Latitude				Outfall Longitude			
050	Biofilm and Construction Wash Waters	4941	41 °	20 '	31.22 "	N	73 °	54 '	4.54 " W	
Municipality: Philipstown (T)							County: Putnam			
Receiving Water: Canopus Creek							Class: B(T)			
Outfall	Wastewater Description	NAICS Code	Outfall Latitude				Outfall Longitude			
053	Biofilm and Construction Wash Waters	4941	41 °	19 '	30.27 "	N	73 °	53 '	36.07 " W	
Municipality: Cortlandt (T)							County: Westchester			
Receiving Water: Peekskill Hollow Creek							Class: A(TS)			
Outfall	Wastewater Description	NAICS Code	Outfall Latitude				Outfall Longitude			
055	Biofilm and Construction Wash Waters	4941	41 °	19 '	8.70 "	N	73 °	53 '	30.07 " W	
Municipality: Cortlandt (T)							County: Westchester			
Receiving Water: Tributary of Peekskill Hollow Creek							Class: C			
Outfall	Wastewater Description	NAICS Code	Outfall Latitude				Outfall Longitude			
058	Biofilm and Construction Wash Waters	4941	41 °	16 '	43.81 "	N	73 °	50 '	7.24 " W	
Municipality: Yorktown (T)							County: Westchester			
Receiving Water: Hunter Brook							Class: B(TS)			

Outfall	Wastewater Description	NAICS Code	Outfall Latitude				Outfall Longitude				
062	Biofilm and Construction Wash Waters	4941	41 °	14 '	52.75	" N	73 °	48 '	45.40	" W	
Municipality:	Yorktown (T)						County:	Westchester			
Receiving Water:	Tributary of Croton Reservoir						Class:	B			
Outfall	Wastewater Description	NAICS Code	Outfall Latitude				Outfall Longitude				
063	Chlorinated Aqueduct Waters	4941	41 °	14 '	18.30	" N	73 °	48 '	34.30	" W	
Municipality:	Yorktown (T)						County:	Westchester			
Receiving Water:	New Croton Reservoir						Class:	AA			
Outfall	Wastewater Description	NAICS Code	Outfall Latitude				Outfall Longitude				
064	Biofilm and Construction Wash Waters	4941	41 °	14 '	25.61	" N	73 °	48 '	36.37	" W	
Municipality:	Yorktown (T)						County:	Westchester			
Receiving Water:	New Croton Reservoir						Class:	AA			
Outfall	Wastewater Description	NAICS Code	Outfall Latitude				Outfall Longitude				
067	Chlorinated Aqueduct Waters	4941	41 °	13 '	54.75	" N	73 °	48 '	27.56	" W	
Municipality:	Yorktown (T)						County:	Westchester			
Receiving Water:	Tributary of New Croton Reservoir						Class:	B			
Outfall	Wastewater Description	NAICS Code	Outfall Latitude				Outfall Longitude				
076	Biofilm and Construction Wash Waters	4941	41 °	08 '	47.31	" N	73 °	47 '	6.97	" W	
Municipality:	Pleasantville (V)						County:	Westchester			
Receiving Water:	Saw Mill River						Class:	B(T)			
Outfall	Wastewater Description	NAICS Code	Outfall Latitude				Outfall Longitude				
078	Aqueduct Unwatering	4941	41 °	07 '	3.47	" N	73 °	44 '	51.62	" W	
Municipality:	Pleasantville (V)						County:	Westchester			
Receiving Water:	Kensico Reservoir						Class:	AA(T)			
Outfall	Wastewater Description	NAICS Code	Outfall Latitude				Outfall Longitude				
084	Biofilm and Construction Wash Waters	4941	41 °	07 '	3.47	" N	73 °	44 '	51.62	" W	
Municipality:	Mount Pleasant (T)						County:	Westchester			
Receiving Water:	Kensico Reservoir						Class:	AA(T)			
Outfall	Wastewater Description	NAICS Code	Outfall Latitude				Outfall Longitude				
091	Biofilm and Construction Wash Waters	4941	41 °	52 '	17.25	" N	74 °	10 '	13.85	" W	
Municipality:	Marbletown (T)						County:	Ulster			
Receiving Water:	Lathankill / Kripplebush Creek						Class:	C(T)			
Outfall	Wastewater Description	NAICS Code	Outfall Latitude				Outfall Longitude				
093	Biofilm and Construction Wash Waters	4941	41 °	45 '	31.27	" N	74 °	08 '	9.01	" W	
Municipality:	New Paltz (T)						County:	Ulster			
Receiving Water:	Tributary of Walkill River						Class:	C			

Outfall	Wastewater Description	NAICS Code	Outfall Latitude			Outfall Longitude		
096	Chlorinated Aqueduct Waters	4941	41 °	33 '	47.25 " N	74 °	08 '	3.73 " W
Municipality:	Montgomery (T)					County:	Orange	
Receiving Water:	Tributary of Tin Brook					Class:	B	
Outfall	Wastewater Description	NAICS Code	Outfall Latitude			Outfall Longitude		
102	Chlorinated Aqueduct Waters	4941	41 °	20 '	3.55 " N	73 °	53 '	32.36 " W
Municipality:	Cortlandt (T)					County:	Putnam	
Receiving Water:	Tributary of Peekskill Hollow Creek					Class:	C	
Outfall	Wastewater Description	NAICS Code	Outfall Latitude			Outfall Longitude		
113	Biofilm and Construction Wash Waters, and Chlorinated Aqueduct Waters	4941	41 °	45 '	55.74 " N	74 °	07 '	29.42 " W
Municipality:	New Paltz (T)					County:	Ulster	
Receiving Water:	Kleine Kill					Class:	C	
Outfall	Wastewater Description	NAICS Code	Outfall Latitude			Outfall Longitude		
114	Chlorinated Aqueduct Waters	4941	41 °	45 '	0.41 " N	74 °	08 '	35.63 " W
Municipality:	New Paltz (T)					County:	Ulster	
Receiving Water:	Tributary of Walkill River					Class:	AA	
Outfall	Wastewater Descriptions	NAICS Code	Outfall Latitude			Outfall Longitude		
115	Chlorinated Aqueduct Water	4941	41 °	25 '	0.21 " N	73 °	56 '	5.65 " W
Municipality:	Philipstown (T)					County:	Putnam	
Receiving Water:	Groundwater					Class:	GA	
Outfall	Wastewater Description	NAICS Code	Outfall Latitude			Outfall Longitude		
116	Chlorinated Aqueduct Waters	4941	41 °	25 '	0.11 " N	73 °	56 '	5.92 " W
Municipality:	Philipstown (T)					County:	Putnam	
Receiving Water:	Groundwater					Class:	GA	

DEFINITIONS

TERM	DEFINITION
7-Day Geo Mean	The highest allowable geometric mean of daily discharges over a calendar week.
7-Day Average	The average of all daily discharges for each 7-days in the monitoring period. The sample measurement is the highest of the 7-day averages calculated for the monitoring period.
12-Month Rolling Average (12 MRA)	The current monthly value of a parameter, plus the sum of the monthly values over the previous 11 months for that parameter, divided by the number of months for which samples were collected in the 12-month period.
30-Day Geometric Mean	The highest allowable geometric mean of daily discharges over a calendar month, calculated as the antilog of: the sum of the log of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.
Action Level	Action level means a monitoring requirement characterized by a numerical value that, when exceeded, triggers additional permittee actions and department review to determine if numerical effluent limitations should be imposed.
Compliance Level / Minimum Level	A compliance level is an effluent limitation. A compliance level is given when the water quality evaluation specifies a Water Quality Based Effluent Limit (WQBEL) below the Minimum Level. The compliance level shall be set at the Minimum Level (ML) for the most sensitive analytical method as given in 40 CFR Part 136, or otherwise accepted by the Department.
Daily Discharge	The discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for the purposes of sampling. For pollutants expressed in units of mass, the 'daily discharge' is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the 'daily discharge' is calculated as the average measurement of the pollutant over the day.
Daily Maximum	The highest allowable Daily Discharge.
Daily Minimum	The lowest allowable Daily Discharge.
Effective Date of Permit (EDP or EDPM)	The date this permit is in effect.
Effluent Limitations	Effluent limitation means any restriction on quantities, quality, rates and concentrations of chemical, physical, biological, and other constituents of effluents that are discharged into waters of the state.
Expiration Date of Permit (ExDP)	The date this permit is no longer in effect.
Instantaneous Maximum	The maximum level that may not be exceeded at any instant in time.
Instantaneous Minimum	The minimum level that must be maintained at all instants in time.
Monthly Average	The highest allowable average of daily discharges over a calendar month, calculated as the sum of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.
Outfall	The terminus of a sewer system, or the point of emergence of any waterborne sewage, industrial waste or other wastes or the effluent therefrom, into the waters of the State.
Range	The minimum and maximum instantaneous measurements for the reporting period must remain between the two values shown.
Receiving Water	The classified waters of the state to which the listed outfall discharges.
Sample Frequency / Sample Type / Units	See NYSDEC's "DMR Manual for Completing the Discharge Monitoring Report for the SPDES" for information on sample frequency, type and units.

PERMIT LIMITS, LEVELS AND MONITORING (Biofilm Wash Waters)

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
003, 008, 062	Biofilm Wash Waters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS				FN
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.	Eff.	
Flow	Monthly Average	Monitor	GPD			Continuous	Recorder		X	1,2
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			1/Week	Grab		X	
	Maximum	8.5								
Total Suspended Solids	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	45								
Settleable Solids	Monthly Average	Monitor	mL/L			1/Week	Grab		X	
	Daily Maximum	0.3								
BOD ₅	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	30								
Oil and Grease	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	15								
Total Aluminum	Monthly Average	2.0	mg/L			1/Week	Grab		X	
	Daily Maximum	4.0								

FOOTNOTES:

- Monitoring only required during biofilm removal activities. If there is no discharge from certain outfalls, report "No discharge" on DMR.
- Temporary piping shall be utilized as necessary to minimize stream disturbance.

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
042, 047, 050, 076	Biofilm Wash Waters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS			FN	
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.		Eff.
Flow	Monthly Average	Monitor	GPD			Continuous	Recorder		X	2,3
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			1/Week	Grab		X	
	Maximum	8.5								
Total Suspended Solids	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	45								
Settleable Solids	Monthly Average	Monitor	mL/L			1/Week	Grab		X	
	Daily Maximum	0.3								
BOD ₅	Monthly Average	Monitor	mg/L			1/Week	Grab		X	1
	Daily Maximum	5.0								
Oil and Grease	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	15								
Total Aluminum	Monthly Average	2.0	mg/L			1/Week	Grab		X	
	Daily Maximum	4.0								

FOOTNOTES:

- Streams are classified for trout.
- Monitoring only required during biofilm removal activities. If there is no discharge from certain outfalls, report "No discharge" on DMR.
- Temporary piping shall be utilized as necessary to minimize stream disturbance.

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
053, 058	Biofilm Wash Waters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS			FN	
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.		Eff.
Flow	Monthly Average	Monitor	GPD			Continuous	Recorder		X	2,3
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			1/Week	Grab		X	
	Maximum	8.5								
Total Suspended Solids	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	45								
Settleable Solids	Monthly Average	Monitor	mL/L			1/Week	Grab		X	
	Daily Maximum	0.3								
BOD ₅	Monthly Average	Monitor	mg/L			1/Week	Grab		X	1
	Daily Maximum	5.0								
Oil and Grease	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	15								
Total Aluminum	Monthly Average	2.0	mg/L			1/Week	Grab		X	
	Daily Maximum	4.0								

FOOTNOTES:

- Streams are classified for trout spawning.
- Monitoring only required during biofilm removal activities. If there is no discharge from certain outfalls, report "No discharge" on DMR.
- Temporary piping shall be utilized as necessary to minimize stream disturbance.

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
022, 064, 093, 113	Biofilm Wash Waters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS			FN	
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.		Eff.
Flow	Monthly Average	Monitor	GPD			Continuous	Recorder		X	1,2,3
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			1/Week	Grab		X	
	Maximum	8.5								
Total Suspended Solids	Monthly Average	Monitor	mg/L			1/Week	Grab		X	3
	Daily Maximum	45								
Settleable Solids	Monthly Average	Monitor	mL/L			1/Week	Grab		X	3
	Daily Maximum	0.3								
BOD ₅	Monthly Average	Monitor	mg/L			1/Week	Grab		X	3
	Daily Maximum	30								
Oil and Grease	Monthly Average	Monitor	mg/L			1/Week	Grab		X	3
	Daily Maximum	15								
Total Aluminum	Monthly Average	2.0	mg/L			1/Week	Grab		X	3
	Daily Maximum	4.0								

FOOTNOTES:

1. Monitoring only required during biofilm removal activities. If there is no discharge from the outfalls, report "No discharge" on DMR.
2. Temporary piping shall be utilized as necessary to minimize stream disturbance.
3. Compliance sampling for Outfall 022 will be performed at internal Outfall 018 or Outfall 019.

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
033, 055	Biofilm Wash Waters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS			FN	
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.		Eff.
Flow	Monthly Average	Monitor	GPD			Continuous	Recorder		X	1,2
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			1/Week	Grab		X	
	Maximum	8.5								
Total Suspended Solids	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	25								
Settleable Solids	Monthly Average	Monitor	mL/L			1/Week	Grab		X	
	Daily Maximum	0.3								
BOD ₅	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	30								
Oil and Grease	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	15								
Total Aluminum	Monthly Average	2.0	mg/L			1/Week	Grab		X	
	Daily Maximum	4.0								

FOOTNOTES:

1. Monitoring only required during biofilm removal activities. If there is no discharge from certain outfalls, report "No discharge" on DMR.
2. Temporary piping shall be utilized as necessary to minimize stream disturbance.

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
084, 091	Biofilm Wash Waters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS			FN	
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.		Eff.
Flow	Monthly Average	Monitor	GPD			Continuous	Recorder		X	2,3
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			1/Week	Grab		X	
	Maximum	8.5								
Total Suspended Solids	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	45								
Settleable Solids	Monthly Average	Monitor	mL/L			1/Week	Grab		X	
	Daily Maximum	0.3								
BOD ₅	Monthly Average	Monitor	mg/L			1/Week	Grab		X	1
	Daily Maximum	5.0								
Oil and Grease	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	15								
Total Aluminum	Monthly Average	2.0	mg/L			1/Week	Grab		X	
	Daily Maximum	4.0								

FOOTNOTES:

1. Stream is classified for trout.
2. Monitoring only required during biofilm removal activities. If there is no discharge from certain outfalls, report "No discharge" on DMR.
3. Temporary piping shall be utilized as necessary to minimize stream disturbance.

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
018	Biofilm Wash Waters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS				FN
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.	Eff.	
Flow	Monthly Average	Monitor	GPD			Continuous	Recorder		X	1
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			1/Week	Grab		X	
	Maximum	8.5								
Total Suspended Solids	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	45								
Settleable Solids	Monthly Average	Monitor	mL/L			1/Week	Grab		X	
	Daily Maximum	0.3								
Oil and Grease	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	15								
Total Iron + Total Manganese	Monthly Average	Monitor	mg/L			1/Week	Grab		X	2,3
	Daily Maximum	1.0								

FOOTNOTES:

- Monitoring only required during biofilm removal activities. If there is no discharge from certain outfalls, report "No discharge" on DMR.
- Discharge of Outfall 018 is to groundwater.
- Limit is for Total Iron and Total Manganese combined.

PERMIT LIMITS, LEVELS AND MONITORING (Construction Wastewaters)

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
003, 008, 062	Construction Wastewaters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS			FN	
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.		Eff.
Flow	Monthly Average	Monitor	GPD			Continuous	Recorder		X	1,2
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			3/Week	Grab		X	
	Maximum	8.5								
Total Suspended Solids	Monthly Average	Monitor	mg/L			3/Week	Grab		X	
	Daily Maximum	30								
Settleable Solids	Monthly Average	Monitor	mL/L			3/Week	Grab		X	
	Daily Maximum	0.3								
Oil and Grease	Monthly Average	Monitor	mg/L			3/Week	Grab		X	
	Daily Maximum	15								
Total Aluminum	Monthly Average	2.0	mg/L			1/Week	Grab		X	
	Daily Maximum	4.0								

FOOTNOTES:

- Monitoring only required during construction activities. If there is no discharge from certain outfalls, report "No discharge" on DMR.
- Temporary piping shall be utilized as necessary to minimize stream disturbance.

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
042, 047, 050, 076	Construction Wastewaters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS			FN	
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.		Eff.
Flow	Monthly Average	Monitor	GPD			Continuous	Recorder		X	2,3
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			3/Week	Grab		X	1
	Maximum	8.5								
Total Suspended Solids	Monthly Average	Monitor	mg/L			3/Week	Grab		X	
	Daily Maximum	30								
Settleable Solids	Monthly Average	Monitor	mL/L			3/Week	Grab		X	
	Daily Maximum	0.3								
Oil and Grease	Monthly Average	Monitor	mg/L			3/Week	Grab		X	
	Daily Maximum	15								
Total Aluminum	Monthly Average	2.0	mg/L			1/Week	Grab		X	
	Daily Maximum	4.0								

FOOTNOTES:

- Streams are classified for trout.
- Monitoring only required during construction activities. If there is no discharge from certain outfalls, report "No discharge" on DMR.
- Temporary piping shall be utilized as necessary to minimize stream disturbance.

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
053, 058	Construction Wastewaters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS			FN	
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.		Eff.
Flow	Monthly Average	Monitor	GPD			Continuous	Recorder		X	2,3
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			3/Week	Grab		X	1
	Maximum	8.5								
Total Suspended Solids	Monthly Average	Monitor	mg/L			3/Week	Grab		X	
	Daily Maximum	30								
Settleable Solids	Monthly Average	Monitor	mL/L			3/Week	Grab		X	
	Daily Maximum	0.3								
Oil and Grease	Monthly Average	Monitor	mg/L			3/Week	Grab		X	
	Daily Maximum	15								
Total Aluminum	Monthly Average	2.0	mg/L			1/Week	Grab		X	
	Daily Maximum	4.0								

FOOTNOTES:

- Streams are classified for trout spawning.
- Monitoring only required during construction activities. If there is no discharge from certain outfalls, report "No discharge" on DMR.
- Temporary piping shall be utilized as necessary to minimize stream disturbance.

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
022, 064, 093, 113	Construction Wastewaters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS			FN	
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.		Eff.
Flow	Monthly Average	Monitor	GPD			Continuous	Recorder		X	1,2,3
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			1/Week	Grab		X	3
	Maximum	8.5								
Total Suspended Solids	Monthly Average	Monitor	mg/L			1/Week	Grab		X	3
	Daily Maximum	45								
Settleable Solids	Monthly Average	Monitor	mL/L			1/Week	Grab		X	3
	Daily Maximum	0.3								
Oil and Grease	Monthly Average	Monitor	mg/L			1/Week	Grab		X	3
	Daily Maximum	15								
Total Aluminum	Monthly Average	2.0	mg/L			1/Week	Grab		X	3
	Daily Maximum	4.0								

FOOTNOTES:

- Monitoring only required during construction activities. If there is no discharge from the outfalls, report "No discharge" on DMR.
- Temporary piping shall be utilized as necessary to minimize stream disturbance.
- Compliance sampling for Outfall 022 will be performed at internal Outfall 018 or Outfall 019.

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
033, 055	Construction Wastewaters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS			FN	
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.		Eff.
Flow	Monthly Average	Monitor	GPD			Continuous	Recorder		X	1,2
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			1/Week	Grab		X	
	Maximum	8.5								
Total Suspended Solids	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	25								
Settleable Solids	Monthly Average	Monitor	mL/L			1/Week	Grab		X	
	Daily Maximum	0.3								
Oil and Grease	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	15								
Total Aluminum	Monthly Average	2.0	mg/L			1/Week	Grab		X	
	Daily Maximum	4.0								

FOOTNOTES:

- Monitoring only required during construction activities. If there is no discharge from certain outfalls, report "No discharge" on DMR.
- Temporary piping shall be utilized as necessary to minimize stream disturbance.

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
084, 091	Construction Wastewaters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS			FN	
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.		Eff.
Flow	Monthly Average	Monitor	GPD			Continuous	Recorder		X	2,3
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			1/Week	Grab		X	1
	Maximum	8.5								
Total Suspended Solids	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	45								
Settleable Solids	Monthly Average	Monitor	mL/L			1/Week	Grab		X	
	Daily Maximum	0.3								
Oil and Grease	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	15								
Total Aluminum	Monthly Average	2.0	mg/L			1/Week	Grab		X	
	Daily Maximum	4.0								

FOOTNOTES:

1. Stream is classified for trout.
2. Monitoring only required during construction activities. If there is no discharge from certain outfalls, report "No discharge" in DMR.
3. Temporary piping shall be utilized as necessary to minimize stream disturbance.

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
018	Construction Wastewaters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS			FN	
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.		Eff.
Flow	Monthly Average	Monitor	GPD			Continuous	Recorder		X	1
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			1/Week	Grab		X	
	Maximum	8.5								
Total Suspended Solids	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	45								
Settleable Solids	Monthly Average	Monitor	mL/L			1/Week	Grab		X	
	Daily Maximum	0.3								
Oil and Grease	Monthly Average	Monitor	mg/L			1/Week	Grab		X	
	Daily Maximum	15								
Total Iron + Total Manganese	Monthly Average	Monitor	mg/L			1/Week	Grab		X	2,3
	Daily Maximum	1.0								

FOOTNOTES:

- Monitoring only required during construction activities. If there is no discharge from certain outfalls, report "No discharge" on DMR.
- Discharge of Outfall 018 is to groundwater.
- Limit is for Total Iron and Total Manganese combined.

PERMIT LIMITS, LEVELS AND MONITORING (Chlorinated Aqueduct Waters)

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
014, 067, 096, 102,113	Chlorinated Aqueduct Waters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION			ACTION LEVEL		MONITORING REQUIREMENTS			FN	
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.		Eff.
Flow	Monthly Average	Monitor	GPD			Continuous	Estimate		X	1
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			1/Month	Grab		X	1,2,3
	Maximum	8.5								
Total Residual Chlorine	Monthly Average	Monitor	µg/L			1/Month	Grab		X	1,2,3,4
	Daily Maximum	30								
Chlorine Dioxide	Monthly Average			Monitor	mg/L	1/Month	Grab		X	1,2,5
	Daily Maximum			0.10						
Chlorite	Monthly Average			Monitor	mg/L	1/Month	Grab		X	1,2,5
	Daily Maximum			0.20						

FOOTNOTES:

- Monitoring only required during chlorination activities. If there is no discharge from certain outfalls, report "No discharge" on DMR.
- Compliance sampling for Outfalls 014, 067, 096, 102, and 113 will be performed at the High Falls Meter Pit or the Rondout Downtake Chamber Weir Vault on the Rondout Pressure Tunnel.
- Reporting and sample frequency will be consistent with those established in the permit for specific outfalls. Reported effluent values for these outfalls will match that of the representative compliance sampling location (see footnote 2).
- Total residual chlorine only monitored when sodium hypochlorite is used for chlorination in lieu of chlorine dioxide.
- Chlorine dioxide and chlorite only monitored during the use of chlorine dioxide for chlorination.

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
010	Chlorinated Aqueduct Waters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION			ACTION LEVEL		MONITORING REQUIREMENTS			FN	
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.		Eff.
Flow	Monthly Average	Monitor	GPD			Continuous	Estimate		X	2
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			1/Month	Grab		X	
	Maximum	8.5								
Total Residual Chlorine	Monthly Average	Monitor	µg/L			1/Month	Grab		X	1,3
	Daily Maximum	30								
Chlorine Dioxide	Monthly Average			Monitor	mg/L	1/Month	Grab		X	4
	Daily Maximum			0.10						
Chlorite	Monthly Average			Monitor	mg/L	1/Month	Grab		X	4
	Daily Maximum			0.20						

FOOTNOTES:

1. Stream is classified for trout.
2. Monitoring only required during chlorination activities. If there is no discharge from certain outfalls, report "No discharge" on DMR.
3. Total residual chlorine only monitored when sodium hypochlorite is used for chlorination in lieu of chlorine dioxide.
4. Chlorine dioxide and chlorite only monitored during the use of chlorine dioxide chlorination.

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
013	Chlorinated Aqueduct Waters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION			ACTION LEVEL		MONITORING REQUIREMENTS			FN	
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.		Eff.
Flow	Monthly Average	Monitor	GPD			Continuous	Estimate		X	1
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			2/Month	Grab		X	1,2,3
	Maximum	8.5								
Total Residual Chlorine	Monthly Average	Monitor	µg/L			2/Month	Grab		X	1,2,3,4
	Daily Maximum	30								
Chlorine Dioxide	Monthly Average			Monitor	mg/L	2/Month	Grab		X	1,2,5
	Daily Maximum			0.10						
Chlorite	Monthly Average			Monitor	mg/L	2/Month	Grab		X	1,2,5
	Daily Maximum			0.20						

FOOTNOTES:

- Monitoring only required during chlorination activities. If there is no discharge from certain outfalls, report “No discharge” on DMR.
- Compliance sampling for Outfall 013 will be performed at the High Falls Meter Pit or the Rondout Downtake Chamber Weir Vault on the Rondout Pressure Tunnel.
- Reporting and sample frequency will be consistent with those established in the permit for specific outfalls. Reported effluent values for these outfalls will match that of the representative compliance sampling location (see footnote 2).
- Total residual chlorine only monitored when sodium hypochlorite is used for chlorination in lieu of chlorine dioxide.
- Chlorine dioxide and chlorite only monitored during the use of chlorine dioxide for chlorination.

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
015, 017, 114	Chlorinated Aqueduct Waters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION			ACTION LEVEL		MONITORING REQUIREMENTS			FN	
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.		Eff.
Flow	Monthly Average	Monitor	GPD			Continuous	Estimate		X	1
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			1/Week	Grab		X	1,2,3
	Maximum	8.5								
Total Residual Chlorine	Monthly Average	Monitor	µg/L			1/Week	Grab		X	1,2,3,4
	Daily Maximum	30								
Chlorine Dioxide	Monthly Average			Monitor	mg/L	1/Week	Grab		X	1,2,5
	Daily Maximum			0.10						
Chlorite	Monthly Average			Monitor	mg/L	1/Week	Grab		X	1,2,5
	Daily Maximum			0.20						

FOOTNOTES:

1. Monitoring only required during chlorinated activities. If there is no discharge from certain outfalls, report “No discharge” on DMR.
2. Compliance sampling for Outfalls 015, 017, and 114 will be performed at the High Falls Meter Pit or the Rondout Downtake Chamber Weir Vault on the Rondout Pressure Tunnel.
3. Reporting and sample frequency will be consistent with those established in the permit for specific outfalls. Reported effluent values for these outfalls will match that of the representative compliance sampling location (see footnote 2).
4. Total residual chlorine only monitored when sodium hypochlorite is used for chlorination in lieu of chlorine dioxide.
5. Chlorine dioxide and chlorite only monitored during the use of chlorine dioxide for chlorination.

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
063	Chlorinated Aqueduct Waters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION			ACTION LEVEL		MONITORING REQUIREMENTS			FN	
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.		Eff.
Flow	Monthly Average	Monitor	GPD			Continuous	Estimate		X	1
	Daily Maximum	Monitor								
pH	Minimum	6.0	SU			1/Week	Grab		X	1,2,3
	Maximum	9.0								
Total Residual Chlorine	Monthly Average	Monitor	µg/L			1/Week	Grab		X	1,2,3,4
	Daily Maximum	50								
Chlorine Dioxide	Monthly Average			Monitor	mg/L	1/Week	Grab		X	1,2,5
	Daily Maximum			0.10						
Chlorite	Monthly Average			Monitor	mg/L	1/Week	Grab		X	1,2,5
	Daily Maximum			0.20						

FOOTNOTES:

- Monitoring only required during chlorinated activities. If there is no discharge from certain outfalls, report "No discharge" on DMR.
- Compliance sampling for Outfalls 063 will be performed at the High Falls Meter Pit or the Rondout Downtake Chamber Weir Vault on the Rondout Pressure Tunnel.
- Reporting and sample frequency will be consistent with those established in the permit for specific outfalls. Reported effluent values for these outfalls will match that of the representative compliance sampling location (see footnote 2).
- Total residual chlorine only monitored when sodium hypochlorite is used for chlorination in lieu of chlorine dioxide.
- Chlorine dioxide and chlorite only monitored during the use of chlorine dioxide for chlorination.

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
078	Chlorinated Aqueduct Waters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION			ACTION LEVEL		MONITORING REQUIREMENTS			FN	
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.		Eff.
Flow	Monthly Average	Monitor	GPD			Continuous	Estimate		X	2
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			1/Day	Grab		X	1,2
	Maximum	8.5								
Total Residual Chlorine	Monthly Average	Monitor	µg/L			1/Day	Grab		X	1,2,3
	Daily Maximum	30								
Chlorine Dioxide	Monthly Average			Monitor	mg/L	1/Day	Grab		X	2,4
	Daily Maximum			0.10						
Chlorite	Monthly Average			Monitor	mg/L	1/Day	Grab		X	2,4
	Daily Maximum			0.20						

FOOTNOTES:

1. Stream is classified for trout.
2. Monitoring only required during chlorination activities. If there is no discharge from certain outfalls, report "No discharge" on DMR.
3. Total residual chlorine only monitored when sodium hypochlorite is used for chlorination in lieu of chlorine dioxide.
4. Chlorine dioxide and chlorite only monitored during the use of chlorine dioxide for chlorination.

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
115, 116	Chlorinated Aqueduct Waters	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS				FN
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.	Eff.	
Flow	Monthly Average	Monitor	GPD			Continuous	Estimate		X	1
	Daily Maximum	Monitor								
pH	Minimum	6.5	SU			1/Month	Grab		X	1,2,3,4
	Maximum	8.5								

FOOTNOTES:

- Monitoring only required during chlorination activities. If there is no discharge from certain outfalls, report "No discharge" on DMR.
- Discharge of Outfalls 115 and 116 are to groundwater.
- Compliance sampling for Outfalls 115 and 116 will be performed at the High Falls Meter Pit or the Rondout Downtake Chamber Weir Vault on the Rondout Pressure Tunnel.
- Reporting and sample frequency will be consistent with those established in the permit for specific outfalls. Reported effluent values for these outfalls will match that of the representative compliance sampling location (see footnote 3).

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PERMIT LIMITS, LEVELS AND MONITORING (Aqueduct Unwatering)

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
01A, 01N, 078	Aqueduct Unwatering	See Outfall Summary Table	EDPM	8/31/2024

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS				FN
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.	Eff.	
Flow	Monthly Average	Monitor	GPD			Continuous	Estimate		X	1,2,3,5
	Daily Maximum	Monitor								
Total Residual Chlorine	Monthly Average	Monitor	µg/L			1/Event	Grab		X	4,5
	Daily Maximum	Monitor								
Chlorine Dioxide	Monthly Average	Monitor	mg/L			1/Event	Grab		X	5,6
	Daily Maximum	Monitor								
Chlorite	Monthly Average	Monitor	mg/L			1/Event	Grab		X	5,6
	Daily Maximum	Monitor								

FOOTNOTES:

1. These sampling points are representative of aqueduct conditions prior to unwatering.
2. Permittee shall provide DEC a minimum of 3 days' notice prior to planned unwatering activities.
3. Estimate total volume of water released during aqueduct unwatering.
4. Total residual chlorine only monitored when sodium hypochlorite is used for chlorination in lieu of chlorine dioxide. Sample shall be taken prior to aqueduct unwatering. If sample is below 30 µg/L, aqueduct unwatering may commence.
5. Compliance sampling for Outfall 01N will be performed in the aqueduct upstream of the outfall.
6. Chlorine dioxide and chlorite only monitored during the use of chlorine dioxide for chlorination. Sample shall be taken prior to aqueduct unwatering. If sample is below 0.10 mg/L for chlorine dioxide and 0.20 mg/L for chlorite, aqueduct unwatering may commence.

SPECIAL CONDITIONS

PROPOSED ACTION LEVELS AND TIERED ACTIONS

Action Levels have been established for the monitoring of chlorine dioxide and chlorite, which do not have existing water quality standards, as part of this permit. In the event that measured values exceed the Action Levels, NYCDEP would implement the following measures based upon the measured concentrations and/or the recurrence of ongoing elevated values.

Tier Level	Chlorine Dioxide	Chlorite	Actions
Tier 1	0.10-0.20 mg/L	0.20-0.25 mg/L	<ul style="list-style-type: none"> Review sampling results, laboratory QC data and field notes, and perform data check. Review Ashokan Chemical Treatment Facility (ACTF) daily concentration monitoring records for potential anomalies. Review ACTF operating logs for variances/upsets related to target dosing. Review ACTF calibration logs. Perform recalibration if required. Persistent exceedance would be considered Tier 2: Action Level is exceeded in three (3) or more consecutive sampling events.
Tier 2	>0.20-0.25 mg/L	>0.25-0.30 mg/L	<ul style="list-style-type: none"> Implement Tier 1 measures. Conduct five (5) days or additional sampling. Determine if in compliance with applicable Action Level(s). Persistent exceedance would be considered Tier 3: Action Level is exceeded throughout five (5) days of additional sampling.
Tier 3	>0.25 mg/L	>0.30 mg/L	<ul style="list-style-type: none"> Implement Tier 1 measures. Implement Tier 2 measures. If measured values exceed these concentrations, operation of the ACTF will be temporarily ceased until applicable Action Levels can be met.

BEST MANAGEMENT PRACTICES (BMPs) FOR INDUSTRIAL FACILITIES

Note that for some facilities, especially those with few employees or limited industrial activities, some of the below BMPs may not be applicable. It is acceptable in these cases to indicate "Not Applicable" for the portion(s) of the BMP Plan that do not apply to your facility, along with an explanation.

1. **General** - The permittee shall develop, maintain, and implement a Best Management Practices (BMP) plan to prevent releases of significant amounts of pollutants to the waters of the State through plant site runoff; spillage and leaks; sludge or waste disposal; and stormwater discharges including, but not limited to, drainage from raw material storage. The BMP plan shall be documented in narrative form and shall include the 13 minimum BMPs and any necessary plot plans, drawings, or maps. Other documents already prepared for the facility such as a Safety Manual or a Spill Prevention, Control and Countermeasure (SPCC) plan may be used as part of the plan and may be incorporated by reference. A copy of the current BMP plan shall be submitted to the Department as required in item (2.) below and a copy must be maintained at the facility and shall be available to authorized Department representatives upon request.
2. **Compliance Deadlines** -The initial BMP plan was received by the Department on February 20, 2020. The BMP plan **shall be reviewed annually** and shall be modified whenever (a) changes at the facility materially increase the potential for releases of pollutants; (b) actual releases indicate the plan is inadequate, or (c) a letter from the Department identifies inadequacies in the plan. The permittee shall certify in writing, as an attachment to the December Discharge Monitoring Report (DMR), that the annual review has been completed. Subsequent modifications to or renewal of this permit does not reset or revise these deadlines unless a new deadline is set explicitly by such permit modification or renewal.
3. **Facility Review** - The permittee shall review all facility components or systems (including but not limited to material storage areas; in-plant transfer, process, and material handling areas; loading and unloading operations; storm water, erosion, and sediment control measures; process emergency control systems; and sludge and waste disposal areas) where materials or pollutants are used, manufactured, stored or handled to evaluate the potential for the release of pollutants to the waters of the State. In performing such an evaluation, the permittee shall consider such factors as the probability of equipment failure or improper operation, cross-contamination of storm water by process materials, settlement of facility air emissions, the effects of natural phenomena such as freezing temperatures and precipitation, fires, and the facility's history of spills and leaks. The relative toxicity of the pollutant shall be considered in determining the significance of potential releases. The review shall address all substances present at the facility that are identified in the SPDES application Form NY-2C (available at https://www.dec.ny.gov/docs/permits_ej_operations_pdf/form2c.pdf) or that are required to be monitored for by the SPDES permit.
4. **13 Minimum BMPs:** Whenever the potential for a release of pollutants to State waters is determined to be present, the permittee shall identify BMPs that have been established to prevent or minimize such potential releases. Where BMPs are inadequate or absent, appropriate BMPs shall be established. In selecting appropriate BMPs, the permittee shall consider good industry practices and, where appropriate, structural measures such as secondary containment and erosion/sediment control devices and practices. USEPA guidance for development of stormwater elements of the BMP is available in *Developing Your Stormwater Pollution Prevention Plan A Guide for Industrial Operators*, February 2009, EPA 833-B-09-002. As a minimum, the plan shall include the following BMPs:

- | | | |
|-------------------------------------|---|---------------------------------|
| 1. BMP Pollution Prevention Team | 6. Security | 10. Spill Prevention & Response |
| 2. Reporting of BMP Incidents | 7. Preventive Maintenance | 11. Erosion & Sediment Control |
| 3. Risk Identification & Assessment | 8. Good Housekeeping | 12. Management of Runoff |
| 4. Employee Training | 9. Materials/Waste Handling, Storage, & Compatibility | 13. Street Sweeping |
| 5. Inspections and Records | | |

DISCHARGE NOTIFICATION REQUIREMENTS

- (a) The permittee shall install and maintain identification signs at all outfalls to surface waters listed in this permit, unless the Permittee has obtained a waiver in accordance with the Discharge Notification Act (DNA). Such signs shall be installed before initiation of any new discharge location.
- (b) Subsequent modifications to or renewal of this permit does not reset or revise the deadline set forth in (a) above, unless a new deadline is set explicitly by such permit modification or renewal.
- (c) The Discharge Notification Requirements described herein do not apply to outfalls from which the discharge is composed exclusively of storm water, or discharges to ground water.
- (d) The sign(s) shall be conspicuous, legible and in as close proximity to the point of discharge as is reasonably possible while ensuring the maximum visibility from the surface water and shore. The signs shall be installed in such a manner to pose minimal hazard to navigation, bathing or other water related activities. If the public has access to the water from the land in the vicinity of the outfall, an identical sign shall be posted to be visible from the direction approaching the surface water.

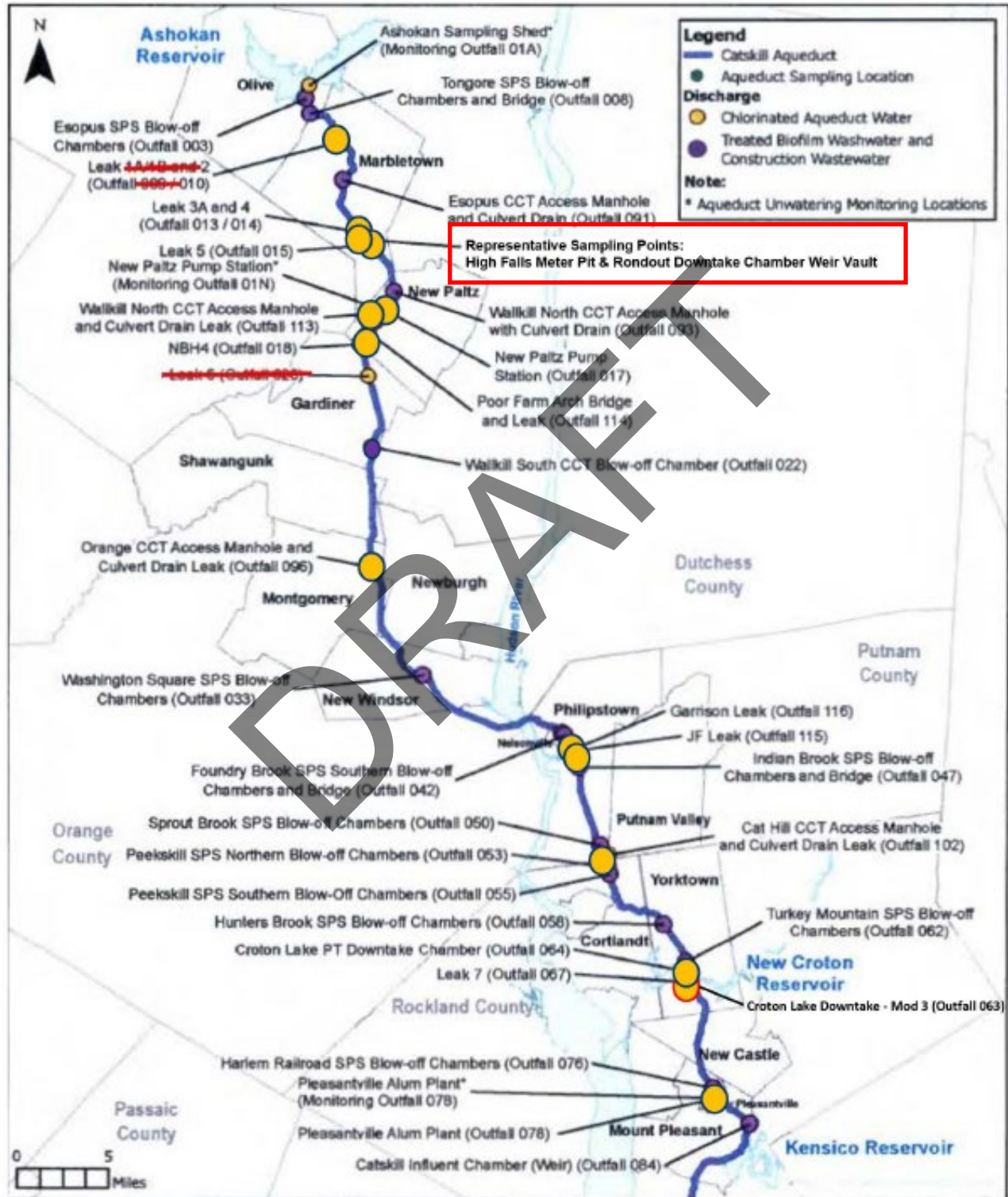
The signs shall have **minimum** dimensions of eighteen inches by twenty-four inches (18" x 24") and shall have white letters on a green background and contain the following information:

<p>N.Y.S. PERMITTED DISCHARGE POINT</p> <p>SPDES PERMIT No.: NY _____</p> <p>OUTFALL No. : _____</p> <p>For information about this permitted discharge contact:</p> <p>Permittee Name: _____</p> <p>Permittee Contact: _____</p> <p>Permittee Phone: () - ### - #####</p> <p>OR:</p> <p>NYSDEC Division of Water Regional Office Address: _____</p> <p>NYSDEC Division of Water Regional Phone: () - ### - #####</p>

- (e) Upon request, the permittee shall make available electronic or hard copies of the sampling data to the public. In accordance with the RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS page of your permit, each DMR shall be maintained (either electronically or as a hard copy) on record for a period of five years.
- (f) The permittee shall periodically inspect the outfall identification sign(s) in order to ensure they are maintained, are still visible, and contain information that is current and factually correct. Signs that are damaged or incorrect shall be replaced within 3 months of inspection.

MONITORING LOCATIONS

The permittee shall take samples and measurements, to comply with the monitoring requirements specified in this permit, at the locations(s) specified below:



Note: Leak 1A/1B (Outfall 009) and Leak 6 (Outfall 020) have been repaired and no longer discharge aqueduct water. These outfalls were removed from the permit in the previous modification.

GENERAL REQUIREMENTS

- A. The regulations in 6 NYCRR Part 750 are hereby incorporated by reference and the conditions are enforceable requirements under this permit. The permittee shall comply with all requirements set forth in this permit and with all the applicable requirements of 6 NYCRR Part 750 incorporated into this permit by reference, including but not limited to the regulations in paragraphs B through H as follows:
- B. General Conditions
1. Duty to comply 6 NYCRR 750-2.1(e) & 2.4
 2. Duty to reapply 6 NYCRR 750-1.16(a)
 3. Need to halt or reduce activity not a defense 6 NYCRR 750-2.1(g)
 4. Duty to mitigate 6 NYCRR 750-2.7(f)
 5. Permit actions 6 NYCRR 750-1.1(c), 1.18, 1.20 & 2.1(h)
 6. Property rights 6 NYCRR 750-2.2(b)
 7. Duty to provide information 6 NYCRR 750-2.1(i)
 8. Inspection and entry 6 NYCRR 750-2.1(a) & 2.3
- C. Operation and Maintenance
1. Proper Operation & Maintenance 6 NYCRR 750-2.8
 2. Bypass 6 NYCRR 750-1.2(a)(17), 2.8(b) & 2.7
 3. Upset 6 NYCRR 750-1.2(a)(94) & 2.8(c)
- D. Monitoring and Records
1. Monitoring and records 6 NYCRR 750-2.5(a)(2), 2.5(a)(6), 2.5(c)(1), 2.5(c)(2), & 2.5(d)
 2. Signatory requirements 6 NYCRR 750-1.8 & 2.5(b)
- E. Reporting Requirements
1. Reporting requirements for non-POTWs 6 NYCRR 750-2.5, 2.6, 2.7, & 1.17
 2. Anticipated noncompliance 6 NYCRR 750-2.7(a)
 3. Transfers 6 NYCRR 750-1.17
 4. Monitoring reports 6 NYCRR 750-2.5(e)
 5. Compliance schedules 6 NYCRR 750-1.14(d)
 6. 24-hour reporting 6 NYCRR 750-2.7(c) & (d)
 7. Other noncompliance 6 NYCRR 750-2.7(e)
 8. Other information 6 NYCRR 750-2.1(f)
- F. Sludge Management
The permittee shall comply with all applicable requirements of 6 NYCRR Part 360.
- G. SPDES Permit Program Fee
The permittee shall pay to the Department an annual SPDES permit program fee within 30 days of the date of the first invoice, unless otherwise directed by the Department, and shall comply with all applicable requirements of ECL 72-0602 and 6 NYCRR Parts 480, 481 and 485. Note that if there is inconsistency between the fees specified in ECL 72-0602 and 6 NYCRR Part 485, the ECL 72-0602 fees govern.
- H. Water Treatment Chemicals (WTCs)
New or increased use and discharge of a WTC requires prior Department review and authorization. At a minimum, the permittee must notify the Department in writing of its intent to change WTC use by submitting a completed *WTC Notification Form* for each proposed WTC. The Department will review that submittal and determine if a SPDES permit modification is necessary or whether WTC review and authorization may proceed outside of the formal permit administrative process. The majority of WTC authorizations do not require SPDES permit modification. In any event, use and discharge of a WTC shall not proceed without prior authorization from the Department. Examples of WTCs include biocides, coagulants, conditioners, corrosion inhibitors, defoamers, deposit control agents, flocculants, scale inhibitors, sequestrants, and settling aids.
1. WTC use shall not exceed the rate explicitly authorized by this permit or otherwise authorized by the Department.
 2. The permittee shall maintain a logbook of all WTC use, noting for each WTC the date, time, exact location, and amount of each dosage, and the name of the individual applying or measuring the chemical. The logbook must also document that adequate process controls are in place to ensure excessive levels of WTCs are not used.
 3. The permittee shall submit a completed WTC Annual Report Form each year that they use and discharge WTCs. This form shall be submitted in electronic format and attached to either the December DMR or the annual monitoring report required below. The *WTC Notification Form* and *WTC Annual Report Form* are available from the Department's website at: <http://www.dec.ny.gov/permits/93245.html>

RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS

- A. The monitoring information required by this permit shall be retained for a period of at least five years from the date of the sampling for subsequent inspection by the Department or its designated agent.
- B. Discharge Monitoring Reports (DMRs): Completed DMR forms shall be submitted for each **one (1)** month reporting period in accordance with the DMR Manual available on Department's website.

DMRs must be submitted electronically using the electronic reporting tool (NetDMR) specified by NYSDEC. Instructions on the use of NetDMR can be found at <https://www.dec.ny.gov/chemical/103774.html>. **Hardcopy paper DMRs will only be received at the address listed below, directed to the Bureau of Water Compliance, if a waiver from the electronic submittal requirements has been granted by DEC to the facility.**

The first monitoring period begins on the effective date of this permit, and, unless otherwise required, the reports are due no later than the 28th day of the month following the end of each monitoring period.

- C. Additional information required to be submitted by this permit shall be summarized and reported to the RWE and Bureau of Water Permits at the following addresses:

Department of Environmental Conservation
Division of Water, Bureau of Water Permits
625 Broadway, Albany, New York 12233-3505

Phone: (518) 402-8111

Department of Environmental Conservation
Regional Water Engineer, Region 3

100 Hillside Avenue, Suite 1W, White Plains, New York, 10603-2860 Phone: (914) 803-8157

- D. Monitoring and analysis shall be conducted using sufficiently sensitive test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
- E. More frequent monitoring of the discharge(s), monitoring point(s), or waters of the State than required by the permit, where analysis is performed by a certified laboratory or where such analysis is not required to be performed by a certified laboratory, shall be included in the calculations and recording of the data on the corresponding DMRs.
- F. Calculations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.
- G. Unless otherwise specified, all information recorded on the DMRs shall be based upon measurements and sampling carried out during the most recently completed reporting period.
- H. Any laboratory test or sample analysis required by this permit for which the State Commissioner of Health issues certificates of approval pursuant to section 502 of the Public Health Law shall be conducted by a laboratory which has been issued a certificate of approval. Inquiries regarding laboratory certification should be directed to the New York State Department of Health, Environmental Laboratory Accreditation Program.

SPDES Permit Fact Sheet

New York City Department of Environmental Protection

Catskill Aqueduct

NY0281042



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Summary of Permit Changes

A State Pollutant Discharge Elimination System (SPDES) permittee-initiated permit modification has been drafted for the Catskill Aqueduct . The changes to the permit are summarized below:

- Outfall 010
 - Added monitor only monthly average action level and daily maximum action level of 0.10 mg/L for Chlorine Dioxide.
 - Added monitor only monthly average action level and daily maximum action level of 0.20 mg/L for Chlorite.
 - Modified the total residual chlorine (TRC) permit limit to require monitoring only when Sodium Hypochlorite is used for chlorination.
- Outfalls 013, 014, 015, 017, 063, 067, 096, 102, 113, & 114.
 - Added monitor only monthly average action level and daily maximum action level of 0.10 mg/L for Chlorine Dioxide.
 - Added monitor only monthly average action level and daily maximum action level of 0.20 mg/L for Chlorite.
 - Modified the total residual chlorine (TRC) permit limit to require monitoring only when Sodium Hypochlorite is used for chlorination.
 - Added an alternate representative sampling point.
- Outfalls 115 & 116
 - Added an alternate representative sampling point.
- Outfalls 01A, 01N, & 078
 - Added monitor only monthly average and daily maximum effluent limitations for Chlorine Dioxide.
 - Added monitor only monthly average and daily maximum effluent limitations for Chlorite.

This factsheet summarizes the information used to determine the effluent limitations (limits) and other conditions contained in the permit. General background information including the regulatory basis for the effluent limitations and other conditions are in the [Appendix](#) linked throughout this factsheet.

Administrative History

- | | |
|-----------|---|
| 9/1/2019 | The last full technical review was performed and the SPDES permit became effective with a new five-year term and expiration date of 8/31/2024. The previous permit, along with all subsequent modifications, has formed the basis of this permit. |
| 8/31/2020 | Permit was modified to include ten (10) new discharge outfalls that were not originally planned or included in the original application. |
| 9/9/2021 | Permit was modified to reconfigure the sampling points for 11 discharge outfalls that were not originally planned or included in the original application, and to remove two (2) outfalls from the permit since the leaks have been fixed and there is no longer any discharge. |
| 10/7/2021 | Permit was modified to change flow units of measure from gallons per day to million gallons per day. |
| 4/27/2022 | Permit was modified to include one (1) new discharge outfall that was not originally planned or included in the original application. |

5/19/2022 The New York City Department of Environmental Protection (NYCDEP) submitted a request to modify the permit as part of the Catskill Aqueduct Repair and Rehabilitation (CAT-RR) project. This request includes the addition of action levels for chlorine dioxide and chlorite, a modification to the total residual chlorine (TRC) permit limit for chlorination to apply only when sodium hypochlorite is used, and the addition of an alternate representative sampling point at the Rondout Downtake Chamber (RDC) Weir Vault, which will become the primary representative sampling point.

The Notice of Complete Application, published in the [Environmental Notice Bulletin](#) and newspapers, contains information on the public notice process.

Facility Information

The NYCDEP is undertaking a multi-year project to support the Water for the Future (WFF) program. This program includes the NYCDEP's Catskill Aqueduct Repair and Rehabilitation (CAT-RR) project. Discharges may result from some activities related to the CAT-RR project.

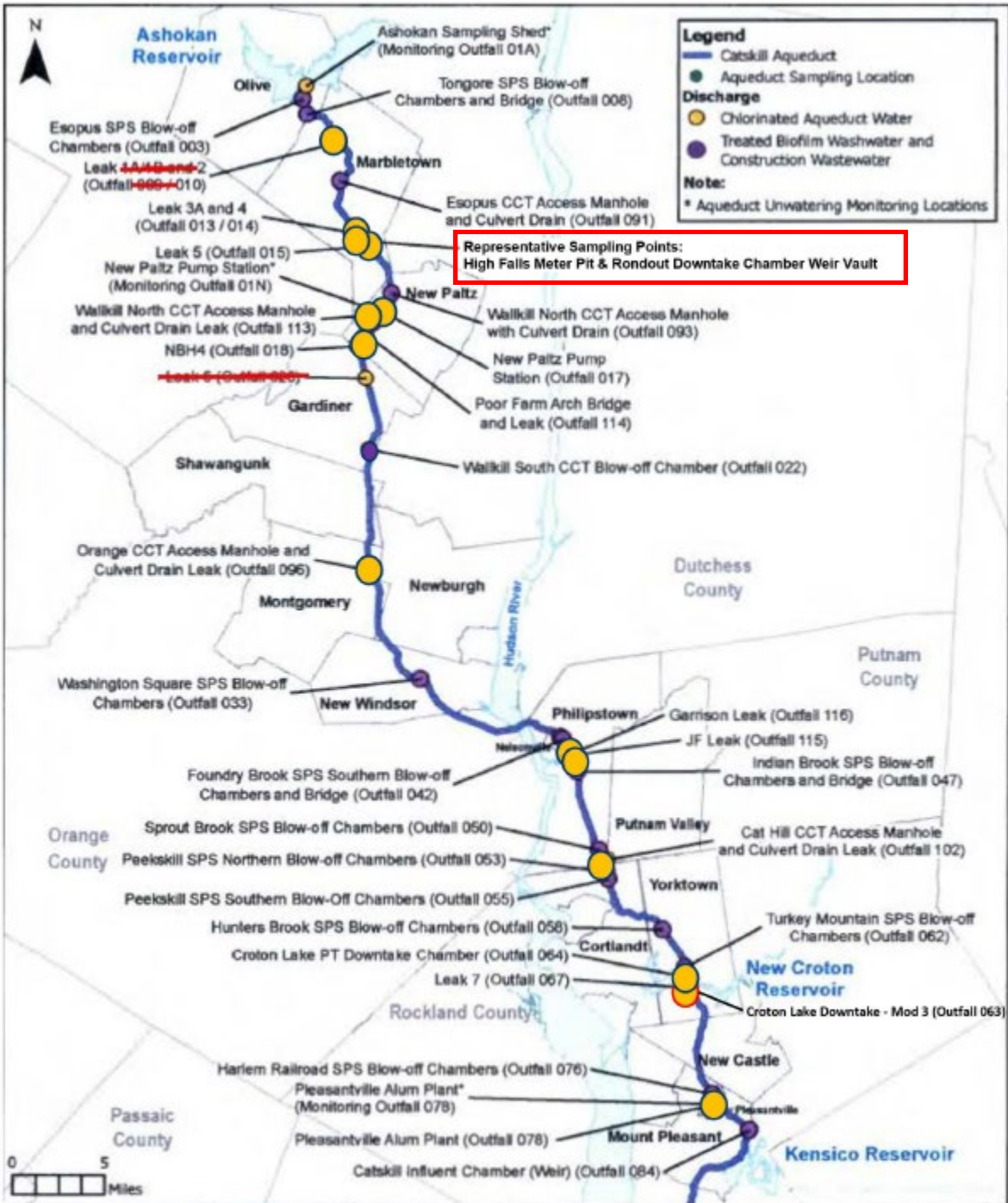
Pursuant to the original SPDES permit, NYCDEP had envisioned the use of sodium hypochlorite and chlorine dioxide in order to reduce biofilm growth in the Catskill Aqueduct. Dependent upon certain operational conditions and/or seasonal requirements, the intent was to use a combination of these two chemicals, separately, to achieve target chemical concentrations within the Aqueduct. Sodium hypochlorite was originally considered the primary chemical with the use of chlorine dioxide on a limited basis. Since that time, NYCDEP has made a commitment to the use of chlorine dioxide for required biofilm control. When the original permit was issued in 2019, permit limits were established for the monitoring of TRC when chemical addition would occur. This was based upon the initial intent that sodium hypochlorite would serve as the primary chemical. TRC is routinely established as a permit parameter in SPDES permits where chlorination through the addition of sodium hypochlorite is used. Likewise, it was originally envisioned that with the use of sodium hypochlorite, dechlorination of releases from the aqueduct (e.g., leaks or direct discharges to surface waters) would also be required. As noted in the original application, the use of GAC beds or sodium bisulfite were proposed to achieve the dechlorination.

With the shift to chlorine dioxide to control biofilm, TRC is no longer a representative permit parameter and the need for active dechlorination is likewise no longer appropriate.

In addition, pursuant to permit modification number 2 (issued September 9, 2021), NYCDEP added the High Falls Meter Pit (HMPT) as a representative sampling point. The HMPT is a representative sampling point for Outfalls 013, 014, 015 and those outfalls downstream of this location (i.e., Outfalls 017, 063, 067, 096, 102, 113, 114, 115, and 116). Access to the HMPT however requires advance outreach and coordination with the High Falls Water District to allow for NYCDEP sampling. The Rondout Downtake Chamber (RDC) Weir Vault is located a short distance from the HMPT with no substantive changes related to the purpose of sampling between the two locations, increases safe access and sampling abilities, and eliminates the involvement of a third party when sampling.

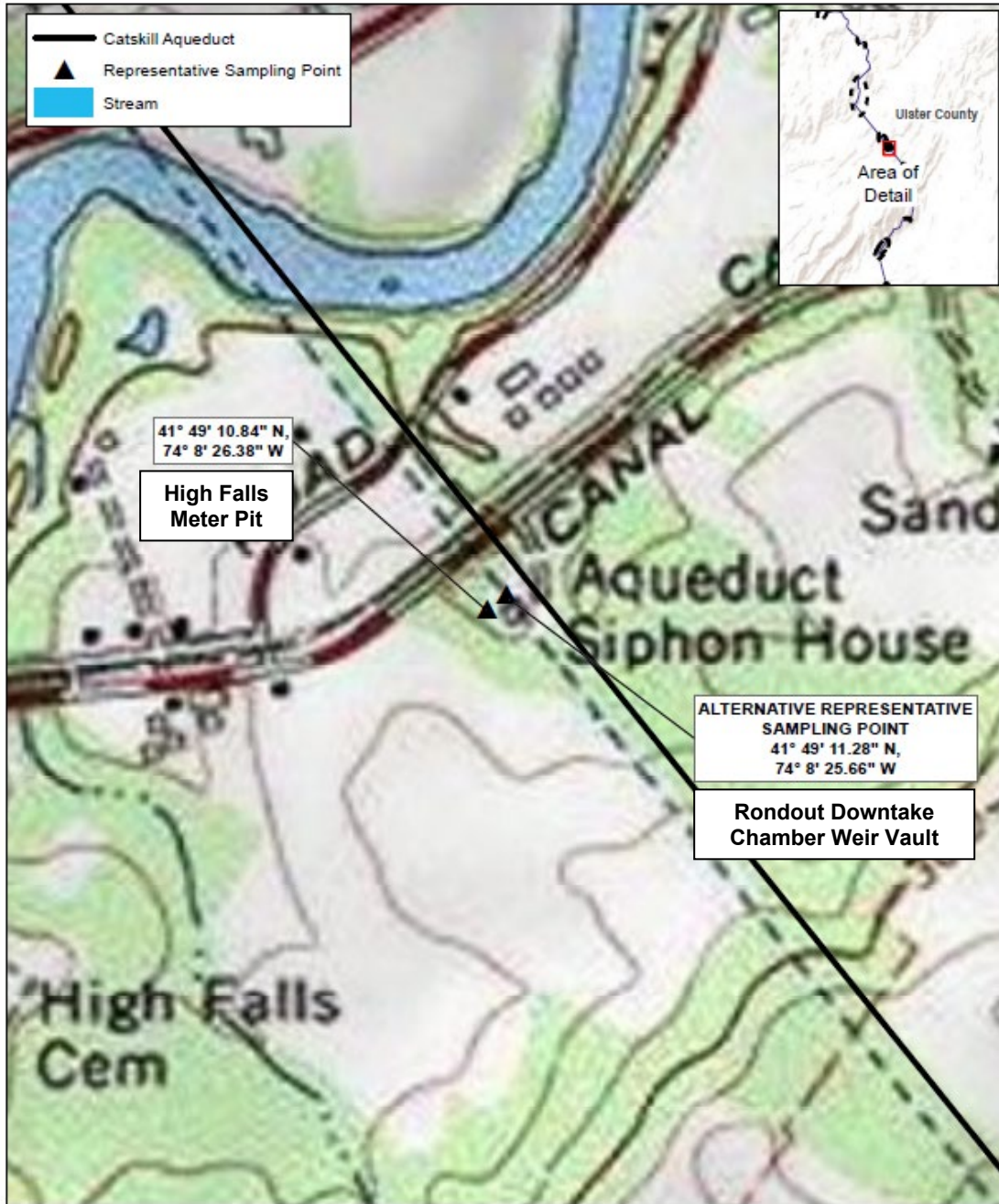
Site Overview

Catskill Aqueduct Map



Note: Leak 1A/1B (Outfall 009) and Leak 6 (Outfall 020) have been repaired and no longer discharge aqueduct water. These outfalls were removed from the permit in the previous modification.

Sampling Points



Receiving Water Information

The facility discharges via the following outfalls:

Outfall No.	SIC Code	Wastewater Type	Receiving Water
010	4941	Chlorinated Aqueduct Waters	Esopus Creek, Class B(T)
013			Tributary of Rondout Creek, Class C
014			Tributary of Rondout Creek, Class C
015			Rondout Creek, Class B
017			New Paltz Lower Reservoir, Class AA
063			New Croton Reservoir, Class AA
067			Tributary of New Croton Reservoir, Class B
096			Tributary of Tin Brook, Class B
102			Tributary of Peekskill Hollow Creek, Class C
113			Kleine Kill, Class C
114			Tributary of Walkkill River, Class AA
115			Groundwater, Class GA
116			Groundwater, Class GA

See the [Outfall and Receiving Water Summary Table](#) and [Appendix](#) for additional information.

Permit Requirements

The technology based effluent limitations ([TBELs](#)), water quality-based effluent limitations ([WQBELs](#)), [Existing Effluent Quality](#) and a discussion of the selected effluent limitation for each pollutant present in the discharge are provided in the [Pollutant Summary Table](#).

Anti-backsliding

The limitations contained in the permit are at least as stringent as the previous permit limits and there are no instances of backsliding. [Appendix Link](#)

Antidegradation

The permit contains effluent limitations which ensure that the best usages of the receiving waters will be maintained. The Notice of Complete Application published in the Environmental Notice Bulletin contains information on the State Environmental Quality Review (SEQR)¹ determination. [Appendix Link](#)

¹ As prescribed by 6 NYCRR Part 617

Permittee: New York City Department of Environmental Protection
Facility: Catskill Aqueduct
SPDES Number: NY0281042
USEPA Non-Major/Class 01 Industrial

Date: June 17, 2022 v.1.13
Permit Writer: Kirsten Jedd-Barry

Discharge Notification Act Requirements

In accordance with the Discharge Notification Act (ECL 17-0815-a), the permittee is required to post a sign at each point of wastewater discharge to surface waters, unless a waiver is obtained. This requirement is being continued from the previous permit.

Additionally, the permit contains a requirement to make the DMR sampling data available to the public upon request. This requirement is being continued from the previous permit.

OUTFALL AND RECEIVING WATER SUMMARY TABLE

Outfall	Latitude	Longitude	Receiving Water Name	Water Class	Water Index No. / Priority Waterbody Listing (PWL) No.	Major / Sub Basin	Hardness (mg/l) ²	1Q10 (MGD)	7Q10 (MGD)	30Q10 (MGD)	Critical Effluent Flow (MGD)	Dilution Ratio		
												A(A)	A(C)	HEW
010	41° 53' 48.50" N	74° 09' 53.59" W	Esopus Creek	B(T)	H-171 PWL: 1307-0003	13 / 07	-	-	-	-	0.0144	-	-	-
013	41° 49' 38.39" N	74° 08' 53.24" W	Tributary of Rondout Creek	C	H-139-14-11 PWL: 1306-0093	13 / 06	-	-	-	-	0.15	-	-	-
014	41° 49' 32.57" N	74° 08' 47.29" W	Tributary of Rondout Creek	C	H-139-14-11 PWL: 1306-0093	13 / 06	-	-	-	-	0.016	-	-	-
015	41° 49' 19.53" N	74° 08' 29.59" W	Rondout Creek	B	H-139-14 PWL: 1306-0088	13-06	-	-	-	-	5.0	-	-	-
017	41° 46' 13.07" N	74° 7' 32.88" W	New Paltz Lower Reservoir	AA	H-139-13-11-4-1 PWL: 1306-0043	13 / 06	-	-	-	-	0.81	-	-	-
063	41° 14' 18.30" N	73° 48' 34.30" W	New Croton Reservoir	AA	H-31-P 44 Portion PWL: 1302-0010	13 / 02	-	-	-	-	2.75	-	-	-
067	41° 13' 54.75" N	73° 48' 27.56" W	Tributary of New Croton Reservoir	B	H-31-P 44 -50 PWL: 1302-0138	13 / 02	-	-	-	-	0.048	-	-	-
096	41° 33' 47.25" N	74° 8' 3.73" W	Tributary of Tin Brook	B	H-139-13-33-7 PWL: 1306-0069	13 / 06	-	-	-	-	0.01	-	-	-
102	41° 20' 3.55" N	73° 53' 32.36" W	Tributary of Peekskill Hollow Creek	C	H-55-5 PWL: 1301-0138	13 / 01	-	-	-	-	0.01	-	-	-
113	41° 45' 55.74" N	74° 7' 29.42" W	Kleine Kill	C	H-139-13-11-4 PWL: 1306-0043	13 / 06	-	-	-	-	0.41	-	-	-
114	41° 45' 0.41" N	74° 8' 35.63" W	Tributary of Wallkill River	AA	H-139-13-11-7 PWL: 1306-0042	13 / 06	-	-	-	-	0.03	-	-	-
115	41° 25' 0.21" N	73° 56' 5.65" W	Groundwater	GA	-	13 / 01	-	-	-	-	-	-	-	-
116	41° 25' 0.11" N	73° 56' 5.92" W	Groundwater	GA	-	13 / 01	-	-	-	-	-	-	-	-

² Ambient hardness data not necessary for the proposed limits.

POLLUTANT SUMMARY TABLES

Outfalls 010, 013, 014, 015, 017, 067, 096, 102, 113, 114, 115, & 116

Outfall #	See Above	Description of Wastewater: Chlorinated Aqueduct Water													
		Type of Treatment: Oxidation via chemical injection (chlorine dioxide)													
Effluent Parameter	Units	Averaging Period	Existing Discharge Data			TBELs		Water Quality Data & WQBELs						ML	Basis for Permit Requirement
			Permit Limit	Existing Effluent Quality ³	# of Data Points Detects / Non-Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL		
General Notes: All applicable water quality standards were reviewed for development of the WQBELs. The standard and WQBEL shown below represent the most stringent.															
Flow Rate	MGD	Monthly Avg	Monitor	-	-	Monitor	TOGS 1.2.1	Narrative: No alterations that will impair the waters for their best usages.					703.2	-	TBEL
		Daily Max													
Flow will continue to be monitored for informational purposes and to calculate pollutant loadings.															
pH	SU	Minimum	6.5	-	-	6.0	TOGS 1.2.1	-	-	6.5 – 8.5	Range	6.5 - 8.5	703.3	-	WQBEL
		Maximum	8.5	-	-	9.0									
Consistent with TOGS 1.2.1, TBELs reflect the available treatment technology listed in Attachment C. Given that adequate dilution is not available, an effluent limitation equal to the WQS is appropriate.															
Total Residual Chlorine (TRC)	mg/L	Daily Max	0.03	-	-	2.0	TOGS 1.3.3	-	-	0.005	A(C)	0.005	703.5	0.03	ML
		Due to the low dilution, the calculated WQBEL is less than the TBEL and less than the minimum level of detection. Therefore, an effluent limitation equal to the minimum level of detection of 0.030 mg/L is appropriate.													
		TRC is routinely established as a permit limit where chlorination through the addition of sodium hypochlorite is used. With the shift to chlorine dioxide to control biofilm, TRC is no longer a representative permit parameter. Therefore, the permit will require TRC monitoring and reporting only when sodium hypochlorite is used for chlorination. Sodium hypochlorite has not been used, therefore there is no existing effluent quality data.													
Action Levels															
Chlorine Dioxide	mg/L	Monthly Avg	-	-	-	Monitor	750.1-13 Monitor	-	-	-	-	-	-	-	Action Level
		Daily Max	-	-	-	0.10	NYCDEP Study								
Based upon a review of available sampling data collected during the previous chlorine dioxide-based chlorination efforts in June 2021 and August 2021, the results of prior whole effluent toxicity (WET) testing, and a review of available toxicity data, DEP is proposing the action level of 0.10 mg/L daily maximum for chlorine dioxide. In the event that measured values exceed the action level, NYCDEP would implement a tiered plan based upon the measured concentrations and/or the recurrence of ongoing elevated values. This plan can be found under the Special Conditions section of the SPDES permit.															

³ The Exiting Effluent Quality is representative of multiple outfalls.

Outfall #	See Above	Description of Wastewater: Chlorinated Aqueduct Water														
		Type of Treatment: Oxidation via chemical injection (chlorine dioxide)														
Effluent Parameter	Units	Averaging Period	Existing Discharge Data			TBELs		Water Quality Data & QBELs						ML	Basis for Permit Requirement	
			Permit Limit	Existing Effluent Quality ³	# of Data Points Detects / Non-Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. QBEL	Basis for QBEL			
Chlorite	mg/L	Monthly Avg	-	-	-	Monitor	750.1-13 Monitor	-	-	-	-	-	-	-	-	Action Level
		Daily Max	-	-	-	0.20	NYCDEP Study	-	-	-	-	-	-	-		
	Based upon a review of available sampling data collected during the previous chlorine dioxide-based chlorination efforts in June 2021 and August 2021, the results of prior whole effluent toxicity (WET) testing, and a review of available toxicity data, DEP is proposing the action level of 0.20 mg/L daily maximum for chlorine dioxide. In the event that measured values exceed the action level, NYCDEP would implement a tiered plan based upon the measured concentrations and/or the recurrence of ongoing elevated values. This plan can be found under the Special Conditions section of the SPDES permit.															

Outfall 063

Outfall #	063	Description of Wastewater: Chlorinated Aqueduct Water														
		Type of Treatment: Oxidation via chemical injection (chlorine dioxide)														
Effluent Parameter	Units	Averaging Period	Existing Discharge Data			TBELs		Water Quality Data & QBELs						ML	Basis for Permit Requirement	
			Permit Limit	Existing Effluent Quality ⁴	# of Data Points Detects / Non-Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. QBEL	Basis for QBEL			
General Notes: All applicable water quality standards were reviewed for development of the QBELs. The standard and QBEL shown below represent the most stringent.																
Flow Rate	MGD	Monthly Avg	Monitor	-	-	Monitor	TOGS 1.2.1	Narrative: No alterations that will impair the waters for their best usages.					703.2	-	TBEL	
		Daily Max	Flow will continue to be monitored for informational purposes and to calculate pollutant loadings.													
pH	SU	Minimum	6.0	-	-	6.0	TOGS 1.2.1	-	-	6.5 – 8.5	Range	6.5 - 8.5	703.3	-	TBEL	
		Maximum	9.0	-	-	9.0		Consistent with TOGS 1.2.1, TBELs reflect the available treatment technology listed in Attachment C. Given the available dilution an effluent limitation equal to the TBEL is reasonably protective of the WQS.								

⁴ The Existing Effluent Quality is representative of multiple outfalls.

Outfall #	Description of Wastewater: Chlorinated Aqueduct Water														
	Type of Treatment: Oxidation via chemical injection (chlorine dioxide)														
Effluent Parameter	Units	Averaging Period	Existing Discharge Data			TBELs		Water Quality Data & WQBELs						ML	Basis for Permit Requirement
			Permit Limit	Existing Effluent Quality ⁴	# of Data Points Detects / Non-Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL		
Total Residual Chlorine (TRC)	mg/L	Daily Max	0.03	-	-	2.0	TOGS 1.3.3	-	-	0.005	A(C)	0.05	703.5	0.03	WQBEL
	The WQBEL was calculated by multiplying the WQS by the chronic dilution ratio. Due to the low dilution, the calculated WQBEL is less than the TBEL and an effluent limitation equal to the WQBEL is appropriate.														
	TRC is routinely established as a permit limit where chlorination through the addition of sodium hypochlorite is used. With the shift to chlorine dioxide to control biofilm, TRC is no longer a representative permit parameter. Therefore, the permit will require TRC monitoring and reporting only when sodium hypochlorite is used for chlorination.														
	Sodium hypochlorite has not been used, therefore there is no existing effluent quality data.														
Action Levels															
Chlorine Dioxide	mg/L	Monthly Avg	-	-	-	Monitor	750.1-13 Monitor	-	-	-	-	-	-	-	Action Level
		Daily Max	-	-	-	0.10	NYCDEP Study	-	-	-	-	-	-	-	Action Level
	Based upon a review of available sampling data collected during the previous chlorine dioxide-based chlorination efforts in June 2021 and August 2021, the results of prior whole effluent toxicity (WET) testing, and a review of available toxicity data, DEP is proposing the action level of 0.10 mg/L daily maximum for chlorine dioxide. In the event that measured values exceed the action level, NYCDEP would implement a tiered plan based upon the measured concentrations and/or the recurrence of ongoing elevated values. This plan can be found under the Special Conditions section of the SPDES permit.														
Chlorite	mg/L	Monthly Avg	-	-	-	Monitor	750.1-13 Monitor	-	-	-	-	-	-	-	Action Level
		Daily Max	-	-	-	0.20	NYCDEP Study	-	-	-	-	-	-	-	Action Level
	Based upon a review of available sampling data collected during the previous chlorine dioxide-based chlorination efforts in June 2021 and August 2021, the results of prior whole effluent toxicity (WET) testing, and a review of available toxicity data, DEP is proposing the action level of 0.20 mg/L daily maximum for chlorine dioxide. In the event that measured values exceed the action level, NYCDEP would implement a tiered plan based upon the measured concentrations and/or the recurrence of ongoing elevated values. This plan can be found under the Special Conditions section of the SPDES permit.														

Appendix: Regulatory and Technical Basis of Permit Authorizations

The Appendix is meant to supplement the factsheet for multiple types of SPDES permits. Portions of this Appendix may not be applicable to this specific permit.

Regulatory References

The provisions of the permit are based largely upon 40 CFR 122 subpart C and 6 NYCRR Part 750 and include monitoring, recording, reporting, and compliance requirements, as well as general conditions applicable to all SPDES permits. Below are the most common citations for the requirements included in SPDES permits:

- Clean Water Act (CWA) 33 section USC 1251 to 1387
- Environmental Conservation Law (ECL) Articles 17 and 70
- Federal Regulations
 - 40 CFR, Chapter I, subchapters D, N, and O
- State environmental regulations
 - 6 NYCRR Part 621
 - 6 NYCRR Part 750
 - 6 NYCRR Parts 700 - 704 – Best use and other requirements applicable to water classes
 - 6 NYCRR Parts 800 – 941 - Classification of individual surface waters
- NYSDEC water program policy, referred to as Technical and Operational Guidance Series (TOGS)
- USEPA Office of Water Technical Support Document for Water Quality-based Toxics Control, March 1991, Appendix E

The following is a quick guide to the references used within the factsheet:

SPDES Permit Requirements	Regulatory Reference
Anti-backsliding	6 NYCRR 750-1.10(c)
Best Management Practices (BMPS) for CSOs	6 NYCRR 750-2.8(a)(2)
Environmental Benefits Permit Strategy (EBPS)	6 NYCRR 750-1.18, NYS ECL 17-0817(4), TOGS 1.2.2 (revised January 25,2012)
Exceptions for Type I SSO Outfalls (bypass)	6 NYCRR 750-2.8(b)(2), 40 CFR 122.41
Mercury Multiple Discharge Variance	Division of Water Program Policy 1.3.10 (DOW 1.3.10)
Mixing Zone and Critical Water Information	TOGS 1.3.1 & Amendments
PCB Minimization Program	40 CFR Part 132 Appendix F Procedure 8, 6 NYCRR 750-1.13(a) and 750-1.14(f), and TOGS 1.2.1
Pollutant Minimization Program (PMP)	6 NYCRR 750-1.13(a), 750-1.14(f), TOGS 1.2.1
Schedules of Compliance	6 NYCRR 750-1.14
Sewage Pollution Right to Know (SPRTK)	NYS ECL 17-0826-a, 6 NYCRR 750-2.7
State Administrative Procedure Act (SAPA)	State Administrative Procedure Act Section 401(2), 6 NYCRR 621.11(l)
State Environmental Quality Review (SEQR)	6 NYCRR Part 617
USEPA Effluent Limitation Guidelines (ELGs)	40 CFR Parts 405-471
USEPA National CSO Policy	33 USC Section 1342(q)
Whole Effluent Toxicity (WET) Testing	TOGS 1.3.2
General Provisions of a SPDES Permit Department Request for Additional Information	NYCRR 750-2.1(i)

Outfall and Receiving Water Information

Impaired Waters

The [NYS 303\(d\) List of Impaired/TMDL Waters](#) identifies waters where specific best usages are not fully supported. The state must consider the development of a Total Maximum Daily Load (TMDL) or other strategy to reduce the input of the specific pollutant(s) that restrict waterbody uses, in order to restore and protect such uses. SPDES permits must include effluent limitations necessary to implement a WLA of an EPA-approved TMDL (6 NYCRR 750-1.11(a)(5)(ii)), if applicable. In accordance with 6 NYCRR 750-1.13(a), permittees discharging to waters which are on the list but do not yet have a TMDL developed may be required to perform additional monitoring for the parameters causing the impairment. Accurate monitoring data is needed to

determine the existing capabilities of the wastewater treatment plants and to assure that wasteload allocations (WLAs) are allocated equitably.

Interstate Water Pollution Control Agencies

Some POTWs may be subject to regulations of interstate basin/compact agencies including: Interstate Sanitation Commission (ISC), International Joint Commission (IJC), Delaware River Basin Commission (DRBC), Ohio River Valley Water Sanitation Commission (ORSANCO), and the Susquehanna River Basin Commission (SRBC). Generally, basin commission requirements focus principally on water quality and not treatment technology. However, interstate/compact agency regulations for the ISC, IJC, DRBC and NYC Watershed contain explicit effluent limits which must be addressed during permit drafting. 6 NYCRR 750-2.1(d) requires SPDES permits for discharges that originate within the jurisdiction of an interstate water pollution control agency, to include any applicable effluent standards or water quality standards (WQS) promulgated by that interstate agency.

Existing Effluent Quality

The existing effluent quality is determined from a statistical evaluation of effluent data in accordance with TOGS 1.2.1 and the USEPA Office of Water, Technical Support Document for Water Quality-based Toxics Control, March 1991, Appendix E (TSD). The existing effluent quality is equal to the 95th (monthly average) and 99th (daily maximum) percentiles of the lognormal distribution of existing effluent data. When there are greater than three non-detects, a delta-lognormal distribution is assumed, and delta-lognormal calculations are used to determine the monthly average and daily maximum pollutant concentrations. Statistical calculations are not performed for parameters where there are less than ten data points. If additional data is needed, a monitoring requirement may be specified either through routine monitoring or a short-term high intensity monitoring program. The [Pollutant Summary Table](#) identifies the number of sample data points available.

Permit Requirements

Basis for Effluent Limitations

Sections 101, 301, 304, 308, 401, 402, and 405 of the CWA and Titles 5, 7, and 8 of Article 17 ECL, as well as their implementing federal and state regulations, and related guidance, provide the basis for the effluent limitations and other conditions in the permit.

When conducting a full technical review of an existing permit, the previous effluent limitations form the basis for the next permit. Existing effluent quality is evaluated against the existing effluent limitations to determine if these should be continued, revised, or deleted. Generally, existing limitations are continued unless there are changed conditions at the facility, the facility demonstrates an ability to meet more stringent limitations, and/or in response to updated regulatory requirements. Pollutant monitoring data is also reviewed to determine the presence of additional contaminants that should be included in the permit based on a reasonable potential analysis to cause or contribute to a water quality standards violation.

Anti-backsliding

Anti-backsliding requirements are specified in the CWA sections 402(o) and 303(d)(4), ECL 17-0809, and regulations at 40 CFR 122.44(l) and 6 NYCRR 750-1.10(c) and (d). Generally, the relaxation of effluent limitations in permits is prohibited unless one of the specified exceptions applies, which will be cited on a case-by-case basis in this factsheet. Consistent with current case law⁵ and USEPA interpretation⁶ anti-backsliding requirements do not apply should a revision to the final effluent limitation take effect before the scheduled date of compliance for that final effluent limitation.

⁵ American Iron and Steel Institute v. Environmental Protection Agency, 115 F.3d 979, 993 n.6 (D.C. Cir. 1997)

⁶ U.S. EPA, Water Quality Standards; Establishment of Numeric Criteria for Priority Toxic Pollutants for the State of California; 65 Fed. Reg. 31682, 31704 (May 18, 2000); Proposed Water Quality Guidance for the Great Lakes System, 58 Fed. Reg. 20802, 20837 & 20981 (April 16, 1993)

Antidegradation Policy

New York State implements the antidegradation portion of the CWA based upon two documents: (1) Organization and Delegation Memorandum #85-40, "Water Quality Antidegradation Policy" (September 9, 1985); and, (2) TOGS 1.3.9, "Implementation of the NYSDEC Antidegradation Policy – Great Lakes Basin (Supplement to Antidegradation Policy dated September 9, 1985) (undated)." The permit for the facility contains effluent limitations which ensure that the existing best usage of the receiving waters will be maintained. To further support the antidegradation policy, SPDES applications have been reviewed in accordance with the State Environmental Quality Review Act (SEQR) as prescribed by 6 NYCRR Part 617.

Effluent Limitations

In developing a permit, the Department determines the technology-based effluent limitations (TBELs) and then evaluates the water quality expected to result from technology controls to determine if any exceedances of water quality criteria in the receiving water might result. If there is a reasonable potential for exceedances of water quality criteria to occur, water quality-based effluent limitations (WQBELs) are developed. A WQBEL is designed to ensure that the water quality standards of receiving waters are met. In general, the CWA requires that the effluent limitations for a particular pollutant are the more stringent of either the TBEL or WQBEL.

Technology-based Effluent Limitations (TBELs) for Industrial Facilities

A TBEL requires a minimum level of treatment for industrial point sources based on currently available treatment technologies and/or Best Management Practices (BMPs). CWA sections 301(b) and 402, ECL sections 17-0509, 17-0809 and 17-0811, and 6 NYCRR 750-1.11 require technology-based controls on effluents. TBELs are set based upon an evaluation of New Source Performance Standards (NSPS), Best Available Technology Economically Achievable (BAT), Best Conventional Pollutant Control Technology (BCT), Best Practicable Technology Currently Available (BPT), and/or Best Professional Judgment (BPJ).

USEPA Effluent Limitation Guidelines (ELGs) Applicable to Facility

In many cases, BPT, BCT, BAT and NSPS limitations are based on effluent guidelines developed by USEPA for specific industries, as promulgated under 40 CFR Parts 405-471. Applicable guidelines, pollutants regulated by these guidelines, and the effluent limitation derivation for facilities subject to these guidelines is in the [USEPA Effluent Limitation Guideline Calculations Table](#).

Best Professional Judgement (BPJ)

For substances that are not explicitly limited by regulations, the permit writer is authorized to use BPJ in developing TBELs. Consistent with section 402(a)(1) of the CWA, and NYS ECL section 17-0811, the Department is authorized to issue a permit containing "any further limitations necessary to ensure compliance with water quality standards adopted pursuant to state law". BPJ limitations may be set on a case-by-case basis using any reasonable method that takes into consideration the criteria set forth in 40 CFR 125.3. Applicable state regulations include 6 NYCRR 750-1.11. The BPJ limitation considers the existing technology present at the facility, the statistically calculated existing effluent quality for that parameter, and any unique or site-specific factors relating to the facility. Technology limitations generally achievable for various treatment technologies are included in TOGS 1.2.1, Attachment C. These limitations may be used for the listed parameters when the technology employed at the facility is listed.

Water Quality-Based Effluent Limitations (WQBELs)

In addition to the TBELs, permits must include additional or more stringent effluent limitations and conditions, including those necessary to protect water quality. CWA sections 101 and 301(b)(1)(C), 40 CFR 122.44(d)(1), and 6 NYCRR Parts 750-1.11 require that permits include limitations for all pollutants or parameters which are or may be discharged at a level which may cause or contribute to an exceedance of any State water quality standard adopted pursuant to NYS ECL 17-0301. Water quality standards can be found under 6 NYCRR Parts 700-704. The limitations must be stringent enough to ensure that water quality standards are met and must be consistent with any applicable WLA which may be in effect through a TMDL for the receiving water. These and other requirements are summarized in TOGS 1.1.1, 1.3.1,

1.3.2, 1.3.5 and 1.3.6. The Department considers a mixing zone analysis, critical flows, and reasonable potential analysis when developing a WQBEL.

Mixing Zone Analyses

In accordance with TOGS 1.3.1., the Department may perform additional analysis of the mixing condition between the effluent and the receiving waterbody. Mixing zone analyses using plume dispersion modeling are conducted in accordance with the following:

“EPA Technical Support Document for Water Quality-Based Toxics Control” (March 1991); EPA Region VIII’s “Mixing Zones and Dilution Policy” (December 1994); NYSDEC TOGS 1.3.1, “Total Maximum Daily Loads and Water Quality-Based Effluent Limitations” (July 1996); “CORMIX v11.0” (2019).

Critical Flows

In accordance with TOGS 1.2.1 and 1.3.1, WQBELs are developed using dilution ratios that relate the critical low flow condition of the receiving waterbody to the critical effluent flow. The critical low flow condition used in the dilution ratio will be different depending on whether the limitations are for aquatic or human health protection. For chronic aquatic protection, the critical low flow condition of the waterbody is typically represented by the 7Q10 flow and is calculated as the lowest average flow over a 7-day consecutive period within 10 years. For acute aquatic protection, the critical low flow condition is typically represented by the 1Q10 and is calculated as the lowest 1-day flow within 10 years. However, NYSDEC considers using 50% of the 7Q10 to be equivalent to the 1Q10 flow. For the protection of human health, the critical low flow condition is typically represented by the 30Q10 flow and is calculated as the lowest average flow over a 30-day consecutive period within 10 years. However, NYSDEC considers using 1.2 x 7Q10 to be equivalent to the 30Q10. The 7Q10 or 30Q10 flow is used with the critical effluent flow to calculate the dilution ratio. The critical effluent flow can be the maximum daily flow reported on the permit application, the maximum of the monthly average flows from discharge monitoring reports for the past three years, or the facility design flow. When more than one applicable standard exists for aquatic or human health protection for a specific pollutant, a reasonable potential analysis is conducted for each applicable standard and corresponding critical flow to ensure effluent limitations are sufficiently stringent to ensure all applicable water quality standards are met as required by 40 CFR 122.44(d)(1)(i). For brevity, the pollutant summary table reports the results of the most conservative scenario.

Reasonable Potential Analysis (RPA)

The Reasonable Potential Analysis (RPA) is a statistical estimation process, outlined in the 1991 USEPA Technical Support Document for Water Quality-based Toxics Control (TSD), Appendix E. This process uses existing effluent quality data and statistical variation methodology to project the maximum amounts of pollutants that could be discharged by the facility. This projected instream concentration (PIC) is calculated using the appropriate ratio and compared to the water quality standard (WQS). When the RPA process determines the WQS may be exceeded, a WQBEL is required. The procedure for developing WQBELs includes the following steps:

- 1) identify the pollutants present in the discharge(s) based upon existing data, sampling data collected by the permittee as part of the permit application or a short-term high intensity monitoring program, or data gathered by the Department;
- 2) identify water quality criteria applicable to these pollutants;
- 3) determine if WQBELs are necessary (i.e. reasonable potential analysis (RPA)). The RPA will utilize the procedure outlined in Chapter 3.3.2 of EPA’s Technical Support Document (TSD). As outlined in the TSD, for parameters with limited effluent data the RPA may include multipliers to account for effluent variability; and,
- 4) calculate WQBELs (if necessary). Factors considered in calculating WQBELs include available dilution of effluent in the receiving water, receiving water chemistry, and other pollutant sources.

The Department uses modeling tools to estimate the expected concentrations of the pollutant in the receiving water and develop WQBELs. These tools were developed in part using the methodology referenced above. If the estimated concentration of the pollutant in the receiving water is expected to exceed the ambient water quality standard or guidance value (i.e. numeric interpretation of a narrative water quality standard), then there is a reasonable potential that the discharge may cause or contribute to an exceedance of any State water quality standard adopted pursuant to NYS ECL 17-0301. If a TMDL is in place, the facility's WLA for that pollutant is applied as the WQBEL.

For carbonaceous and nitrogenous oxygen demanding pollutants, the Department uses a model which incorporates the Streeter-Phelps equation. The equation relates the decomposition of inorganic and organic materials along with oxygen reaeration rates to compute the downstream dissolved oxygen concentration for comparison to water quality standards.

A Watershed Maximum Daily Load (WMDL) may be developed by the Department to account for the cumulative effect of multiple discharges of conservative toxic pollutants to ensure water quality standards are met in downstream segments. The WMDL uses a simple dilution model, assuming full mix in the receiving stream, to calculate the maximum allowable pollutant load that can be discharged and still meet water quality standards during critical low flow in downstream segments such as those with sensitive receptors (e.g. public water supply) or higher water classification. WQBELs are established to ensure that the cumulative mass load from point source discharges does not exceed the maximum allowable load to ensure permit limits are protective of water quality.

Whole Effluent Toxicity (WET) Testing:

WET tests use small vertebrate and invertebrate species to measure the aggregate toxicity of an effluent. There are two different durations of toxicity tests: acute and chronic. Acute toxicity tests measure survival over a 96-hour test exposure period. Chronic toxicity tests measure reductions in survival, growth, and reproduction over a 7-day exposure. TOGS 1.3.1 includes guidance for determining when aquatic toxicity testing should be included in SPDES permits. The authority to require toxicity testing is in 6NYCRR 702.9. TOGS 1.3.2 describes the procedures which should be followed when determining whether to include toxicity testing in a SPDES permit and how to implement a toxicity testing program. Per TOGS 1.3.2, WET testing may be required when any one of the following seven criteria are applicable:

1. There is the presence of substances in the effluent for which ambient water quality criteria do not exist.
2. There are uncertainties in the development of TMDLs, WLAs, and WQBELs, caused by inadequate ambient and/or discharge data, high natural background concentrations of pollutants, available treatment technology, and other such factors.
3. There is the presence of substances for which WQBELs are below analytical detectability.
4. There is the possibility of complex synergistic or additive effects of chemicals, typically when the number of metals or organic compounds discharged by the permittee equals or exceeds five.
5. There are observed detrimental effects on the receiving water biota.
6. Previous WET testing indicated a problem.
7. POTWs which exceed a discharge of 1 MGD. Facilities of less than 1 MGD may be required to test, e.g., POTWs <1 MGD which are managing industrial pretreatment programs.

Minimum Level of Detection

Pursuant to 40 CFR 122.44(i)(1)(iv) and 6 NYCRR 750-2.5(d), SPDES permits must contain monitoring requirements using sufficiently sensitive test procedures approved under 40 CFR Part 136. A method is "sufficiently sensitive" when the method's minimum level (ML) is at or below the level of the effluent limitation established in the permit for the measured pollutant parameter; or the lowest ML of the analytical methods approved under 40 CFR Part 136. The ML represents the lowest level that can be measured within specified limitations of precision and accuracy during routine laboratory operations on most effluent matrices. When establishing effluent limitations for a specific parameter (based on technology or water quality requirements), it

is possible that the calculated limitation will fall below the ML established by the approved analytical method(s). In these instances, the calculated limitation is included in the permit with a compliance level set equal to the ML of the most sensitive method.

Monitoring Requirements

CWA section 308, 40 CFR 122.44(i), 6 NYCRR 750-1.13, and 750-2.5 require that monitoring be included in permits to determine compliance with effluent limitations. Additional effluent monitoring may also be required to gather data to determine if effluent limitations may be required. The permittee is responsible for conducting the monitoring and reporting results on Discharge Monitoring Reports (DMRs). The permit contains the monitoring requirements for the facility. Monitoring frequency is based on the minimum sampling necessary to adequately monitor the facility's performance and characterize the nature of the discharge of the monitored flow or pollutant. Variable effluent flows and pollutant levels may be required to be monitored at more frequent intervals than relatively constant effluent flow and pollutant levels (6 NYCRR 750-1.13). For industrial facilities, sampling frequency is based on guidance provided in TOGS 1.2.1. For municipal facilities, sampling frequency is based on guidance provided in TOGS 1.3.3.

Other Conditions

Schedules of Compliance

Schedules of compliance are included in accordance with 40 CFR Part 132 Attachment F, Procedure 9, 40 CFR 122.47 and 6 NYCRR 750-1.14. Schedules of compliance are intended to, in the shortest reasonable time, achieve compliance with applicable effluent standards and limitations, water quality standards, and other applicable requirements. Where the time for compliance is more than nine months, the schedule of compliance must include interim requirements and dates for their achievement. If the time necessary to complete the interim milestones is more than nine months, and not readily divisible into stages for completion, progress reports must be required.

Schedule(s) of Additional Submittals

Schedules of Additional Submittals are used to summarize the deliverables required by the permit not identified in a separate Schedule of Compliance.

Best Management Practices (BMP) for Industrial Facilities

BMP plans are authorized for inclusion in NPDES permits pursuant to Sections 304(e) and 402 (a)(1) of the Clean Water Act, and 6 NYCRR 750-1.14(f). The regulations pertaining to BMPs are promulgated under 40 CFR Part 125, Subpart K. These regulations specifically address surface water discharges.