

State Pollutant Discharge Elimination System (SPDES) DISCHARGE PERMIT

SIC Code: 4952	NAICS Code:	221320		SPDES Number:	NY0022195
Discharge Class (CL):	05		DEC Number:	5-0944-00001/00001	
Toxic Class (TX): T				Effective Date (EDP):	EDP
Major-Sub Drainage Basin:	10 - 03			Expiration Date (ExDP):	ExDP
Water Index Number:			Madification Dates (EDDM):		
Compact Area:	NEIWPCC	·		Modification Dates (EDPM):	

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:	Village of Dannemora	Attention:		row Chief O	norotor					
Street:	P.O. Box 566	_	Larry Carrow, Chief Operator							
City:	Dannemora	State:	NY	Zip Code:	12929					
Email:	lcarrow@villageofdannemora.net	Phone:	(518) 492-	7944						

is authorized to discharge from the facility described below:

FACILITY NAME, ADDRESS, AND PRIMARY OUTFALL																		
Name:	Village	illage of Dannemora Wastewater Treatment Plant																
Address / Location:	284 Ry	84 Ryan Road							County:		Clinton							
City:	Sarana	ic							State:	NY		Zip C	od	e:	129	981		
Facility Location:		Latitud	e:	44	0	42	,	24	" N	& Longit	tude:	7	3 °	•	42	,	47	" W
Primary Outfall No.:	001	Latitud	e:	44	o	40	,	34	" N	& Longit	tude:	7	3		42	,	07	" W
Outfall Description:Treated SanitaryReceiving Water:Saranac RiverClass:C(T)Standard:A								Α										

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:

BWP Permit Coordinator (permit.coordinator@dec.ny.gov) BWP Permit Writer RWE RPA EPA Region 2 (<u>Region2_NPDES@epa.gov</u>) County Health

Permit Administrator:		
Address:	625 Broadway Alban 12233-1750	y, NY
Signature		Date

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 DEC 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 DEC.
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 - 001

OUTFALL	LIMITATIONS APPLY	RECEIVING WATER	EFFECTIVE	EXPIRING
001	All Year (unless otherwise specified)	Saranac River	EDP	ExDP

	EI	FFLL	JENT LI	ΜΙΤΑΤ	ION			MONITO	RING REQL	JIRE	MEN	rs	
PARAMETER								Camala	Comple	_	Loc	ation	FN
	Туре		Limit	Units	Limit	U	nits	Sample Frequency	Sample Type	2	Inf.	Eff.	
Flow	Monthly Avera	age	1.5	MGD)			Continuous	Recorde	er		х	
Flow	Daily Maximu	ım	Monitor	MGD)			Continuous	Recorde	er		х	
-11	Daily Minimu	m	6.0	SU				1/day/	lay Grab		V	v	
рН	Daily Maximu	ım	9.0	SU				1/day			X	Х	
Temperature	Daily Maximu	ım	Monitor	٩F				1/day	Grab			х	
	Monthly Avera	age	30	mg/L	. 380	lb	os/d	1/week	24-hr. Cor	mp.	X	х	1
BOD₅	7-Day Averag	ge	45	mg/L	. 560	lb	os/d	1/week	24-hr. Cor	mp.		х	
	Monthly Avera	age	30	mg/L	. 380	lb	os/d	1/week	24-hr. Cor	mp.	х	х	1
Total Suspended Solids (TSS)	7-Day Averag	ge	45	mg/L	. 560	lb	os/d	1/week	24-hr. Cor	mp.		х	
Settleable Solids	Daily Maximu	ım	0.3	mL/L				1/day	Grab			х	
Total Kjeldahl Nitrogen (TKN) (as N)	Daily Maximu	ım	Monitor	mg/L				1/week	24-hr. Cor	np.		х	
Ammonia (as N)	Daily Maximu	ım	Monitor	mg/L	. Monito	or Ib	os/d	1/week	24-hr. Comp.			х	
	12 MRA				20.3	lb	os/d	1/week	24-hr. Cor	np.		х	4
Total Phosphorus (as P)	Monthly Average		Monitor	mg/L	. Monito	or Ib	os/d	1/week 24-hr. Comp.		mp.		х	
Manager Tatal	12 MRA		12	ng/L				1/quarter	Calculated			х	4,5
Mercury, Total	Daily Maximu	im	50	ng/L	g/L			1/quarter	Grab			х	5
Biennial Pollutant Scan								1/Two Years	-			х	3
ACTION LEVEL PARAMETERS	Туре		Action Level	Unit	s Action Level		nits	Sample Frequency	Sample Type	Inf.	Eff.	F	N
Phenols, Total	Daily Maximu	ım	73	µg/L	-			1/quarter	Grab		Х	5	,6
EFFLUENT DISINFECTION		Lir	mit U	nits	Limit	Uni	its	Sample	Sample Typ	be	Inf.	Eff.	FN
Required Seasonal from May 1st								Frequency	. ,				
Coliform, Fecal Ge	30-Day cometric Mean	20	1(1)	lo./ 0 mL				1/week	Grab			Х	2
Coliform, Fecal Ge	7-Day cometric Mean	4(lo./) mL				1/week	Grab			х	2
Chlorine, Total Residual D	aily Maximum	1	.5 m	ig/L				1/day	Grab			х	2

Outfall 001 Continued on Next Page

PERMIT LIMITS, LEVELS AND MONITORING – 001 (continued)

WHOLE EFFLUENT TOXICITY	(WET) TESTING	Limit	Units	Action Level	Units	Sample Frequency	Sample Type	Inf.	Eff.	FN
WET - Acute Invertebrate	See footnote 8			13	TUa		See FN 8		Х	8
WET - Acute Vertebrate	See footnote 8			13	TUa		See FN 8		Х	8
WET - Chronic Invertebrate	See footnote 8			69	TUc		See FN 8		Х	8
WET - Chronic Vertebrate	See footnote 8			69	TUc		See FN 8		Х	8
				[1	[
EMERGING CONTAMINANTS		Limit	Units	Action Level	Units	Sample Frequency	Sample Type	Inf.	Eff.	FN
OUTFALL 001				Levei			. , , , , ,			
Perfluorobutanoic Acid (PFBA) CAS No. 375-22-4	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	5
Perfluoropentanoic Acid (PFPeA) CAS No. 2706-90-3	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	5
Perfluorohexanoic Acid (PFHxA) CAS No.307-24-4	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	5
Perfluoroheptanoic Acid (PFHpA) CAS No. 375-85-9	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	5
Perfluorooctanoic Acid (PFOA) CAS No. 335-67-1	Daily Maximum			10	ng/L	1/quarter	Grab		х	5,7
Perfluoro-nonanoic Acid (PFNA) CAS No. 375-95-1	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
Perfluoro-decanoic Acid (PFDA) CAS No. 335-76-2	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
Perfluoroundecanoic Acid (PFUnA) CAS No. 2058-94-8	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
Perfluorododecanoic Acid (PFDoA) CAS No. 307-55-1	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
Perfluorotridecanoic Acid (PFTiA) CAS No. 72629-94-8	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
Perfluorotetradecanoic Acid (PFTeA) CAS No. 376-06-7	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
Perfluorobutanesulfonic Acid (PFBS) CAS No. 375-73-5	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
Perfluoropentanesulfonic Acid (PFPeS) CAS No. 2706-91-4	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
Perfluorohexanesulfonic Acid (PFHxS) CAS No. 355-46-4	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
Perfluoroheptanesulfonic Acid (PFHpS) CAS No. 375-92-8	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
Perfluorooctanesulfonic Acid (PFOS) CAS No. 1763-23-1	Daily Maximum			10	ng/L	1/quarter	Grab		х	5,7
Perfluorononanesulfonic Acid (PFNS) CAS No. 68259-12-1	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
Perfluorodecanesulfonic Acid (PFDS) CAS No. 335-77-3	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
Perfluorododecanesulfonic Acid (PFDoS) CAS No. 79780-39-5	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
Perfluorooctanesulfonamide (FOSA) CAS No. 754-91-6	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
N-Methyl Perfluorooctanesulfonamidoac etic Acid (NMeFOSAA) CAS No. 2355-31-9	Daily Maximum	Monitor	ng/L			1/quarter	Grab		x	5

EMERGING CONTAMINANTS		Lingit	11-14-	Action		Sample	Sample	l. f	Γ."	
OUTFALL 001		Limit	Units	Level	Units	Frequency	Туре	Inf.	Eff.	FN
N-Ethyl Perfluorooctanesulfonamidoac										
etic Acid (NEtFOSAA) CAS No. 2991-50-6	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	5
1H,1H,2H,2H-Fluorotelomer Sulfonic Acid (4:2 FTS) CAS No. 757124-72-4	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
1H,1H,2H,2H- Fluorotelomer Sulfonic Acid (6:2 FTS) CAS No. 27619-97-2	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
1H,1H,2H,2H- Fluorotelomer Sulfonic Acid (8:2 FTS) CAS No. 39108-34-4	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
N-ethyl Perfluoro- octanesulfon-amide (NEtFOSA) CAS No. 4151-50-2	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) CAS No. 31506-32-8	Daily Maximum	Monitor	ng/L			1/quarter	Grab		x	5
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) CAS No. 24448-09-7	Daily Maximum	Monitor	ng/L			1/quarter	Grab		x	5
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) CAS No. 1691-99-2	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
9-Chlorohexadecafluoro-3- Oxanone-1-Sulfonic Acid (9Cl- PF3ONS) CAS No. 756426-58-1	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA or GenX) CAS No. 13252-13-6	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
11-Chloroeicosafluoro-3- Oxaundecane-1-Sulfonic Acid (11CI-PF3OUdS) CAS No. 763051-92-9	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
4,8-Dioxa-3h- Perfluorononanoic Acid (ADONA) CAS No. 919005-14-4	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
3-Perfluoropropyl Propanoic Acid (3:3FTCA) CAS No. 356-02-5	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
2H,2H,3H,3H- Perfluorooctanoic Acid (5:3FTCA) CAS No. 914637-49-3	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
3-Perfluoroheptyl Propanoic Acid (7:3FTCA) CAS No. 812-70-4	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
Nonafluoro-3,6-dioxaheptanoic Acid (NFDHA) CAS No. 151772-58-6	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5
Perfluoro-4-Methoxybutanoic Acid (PFMBA) CAS No. 863090-89-5	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5

EMERGING CONTAMINANTS OUTFALL 001		Limit	Units	Action Level	Units	Sample Frequency	Sample Type	Inf.	Eff.	FN
Perfluoro-3-Methoxypropanoic Acid (PFMPA) CAS No. 377-73-1		Monitor	ng/L			1/quarter	Grab		х	5
Perfluoro(2- Ethoxyethane)Sulfonic Acid (PFEESA) CAS No. 113507-82-7	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	5

FOOTNOTES:

- 1. Effluent shall not exceed 33% and 15% of influent concentration values for both BOD₅ and TSS, respectively.
- 2. Sampling for fecal coliform and total residual chlorine shall be performed at manhole "N-13".
- 3. Biennial Pollutant Scan: The permittee shall perform effluent sampling every two (2) years for all applicable pollutants identified in the NY-2A Application, Tables A D. Sampling data shall be collected according to the guidance in the NY-2A application and maintained by the permittee. Monitoring results shall not be submitted on the DMR. Data shall be submitted with the next submission of the NY-2A form.
- 4. The 12-month rolling average for mercury and phosphorus is defined as the sum of the current month's monthly average concentration or load added to the monthly averages from the eleven previous months, divided by the number of months for which samples were collected in the 12-month period.
- Quarterly samples shall be collected in calendar quarters (Q1 January 1st to March 31st; Q2 April 1st to June 30th; Q3 July 1st to September 30th; Q4 October 1st to December 31st).
- 6. <u>Total Phenols Action Level</u>: If the action level is exceeded, the additional monitoring requirement is triggered, and the permittee shall undertake a short-term, high-intensity, monitoring program for total phenols. Samples identical to those required for routine monitoring purposes shall be taken on each of at least three consecutive days and analyzed. Results shall be expressed in both mass and concentration. If levels higher than the action levels are confirmed, the permittee shall evaluate the treatment system operation and identify and employ actions to reduce concentrations present in the discharge. The permit may also be reopened by the DEC for consideration of revised action levels or effluent limits. Action level monitoring results and the effectiveness of the actions taken shall be summarized and submitted with the monthly operating report data.
- Emerging Contaminants Action Level: Upon each exceedance of the Action Level for PFOA and/or PFOS, perform one (1) confirmatory sample within seven (7) days for the parameter(s) exceeded. If confirmed exceedance notify DEC at <u>emergingcontaminantsdow@dec.ny.gov</u>, and initiate minimization program and continuous reporting as outlined in the <u>Schedule of Additional Submittals</u>. All PFAS compound sampling shall use EPA Method 1633.

FOOTNOTES CONTINUED ON NEXT PAGE

FOOTNOTES CONTINUED

8. Whole Effluent Toxicity (WET) Testing:

<u>Testing Requirements</u> - Acute and if directed Chronic WET testing is required. Testing shall be performed in accordance with 40 CFR Part 136 and TOGS 1.3.2 unless prior written approval has been obtained from the DEC. The test species shall be Ceriodaphnia dubia (water flea - invertebrate) and Pimephales promelas (fathead minnow - vertebrate). Receiving water collected upstream from the discharge should be used for dilution. All tests conducted should be static-renewal (two 24-hr composite samples with one renewal for Acute tests and three 24-hr composite samples with two renewals for Chronic tests). The appropriate dilution series should be used to generate a definitive test endpoint, otherwise an immediate rerun of the test may be required. WET testing shall be coordinated with the monitoring of chemical and physical parameters limited by this permit so that the resulting analyses are also representative of the sample used for WET testing. The ratio of critical receiving water flow to discharge flow (i.e. dilution ratio) is **44:1** for acute, and **69:1** for chronic.

Monitoring Period - WET testing shall be performed quarterly (calendar quarters) during calendar years ending in 2 and 7.

<u>Reporting</u> - Toxicity Units shall be calculated and reported on the DMR as follows: TUa = (100)/(48-hr LC50) [note that Acute data is generated by both Acute and Chronic testing] and TUc = (100)/(7-day NOEC) or (100)/(7-day IC25) when Chronic testing has been performed or TUc = (TUa) x (10) when only Acute testing has been performed and is used to predict Chronic test results, where the 48-hr LC50, 7-day NOEC and/or IC25 are all expressed in % effluent. This must be done, including the Chronic prediction from the Acute data, for both species unless otherwise directed. For Chronic results, report the most sensitive endpoint (i.e. survival, growth and/or reproduction) corresponding to the lowest 7-day NOEC or IC25 and resulting highest TUc. For Acute results, report a TUa of 0.3 if there is no statistically significant mortality in 100% effluent as compared to the control. Report a TUa of 1.0 if there is statistically significant mortality in 100% effluent as compared to the control, but insufficient mortality to generate a 48-hr LC50. Also, in the absence of a 48-hr LC50, use 1.0 TUa for the Chronic prediction from the Acute data, and report a TUc of 10.0.

The complete test report including all bench sheets, statistical analyses, reference toxicity data, daily average flow at the time of sampling and other appropriate supporting documentation, shall be submitted within 60 days following the end of each test period with your WET DMR and to the <u>WET@dec.ny.gov</u> email address. A summary page of the test results for the invertebrate and vertebrate species indicating TUa, 48-hr LC50 for Acute tests and/or TUc, NOEC, IC25, and most sensitive endpoints for Chronic tests, should also be included at the beginning of the test report.

<u>WET Testing Action Level Exceedances</u> - If an action level is exceeded then the DEC may require the permittee to conduct additional WET testing including Acute and/or Chronic tests. Additionally, the permittee may be required to perform a Toxicity Identification/Reduction Evaluation (TI/RE) in accordance with DEC guidance. Enforceable WET limits may also apply. The permittee shall be notified in writing by their Regional DEC office of additional requirements. The written notification shall include the reason(s) why such testing, TI/RE and/or limits are required.

STORMWATER POLLUTION PREVENTION REQUIREMENTS

NO EXPOSURE CERTIFICATION

The permittee submitted a Conditional Exclusion for No Exposure Form on **8/12/2024**, certifying that all industrial activities and materials are completely sheltered from exposure to rain, snow, snowmelt, and stormwater runoff except as allowed under 40 CFR 122.26(g)(2). The permittee must maintain a condition of no exposure for the exclusion to remain applicable. If conditions change resulting in the exposure of materials and activities to stormwater, the permittee must notify the Regional Water Engineer. The permittee must recertify a condition of no exposure every five years by completing the "No Exposure Certification Form" found on the DEC website.

MERCURY MINIMIZATION PROGRAM (MMP) - Type I

- 1. <u>General</u> The permittee must develop, implement, and maintain a mercury minimization program (MMP), containing the elements set forth below, to reduce mercury effluent levels with the goal of achieving the WQBEL of 0.7 ng/L.
- <u>MMP Elements</u> The MMP must be a written document and must include any necessary drawings or maps of the facility and/or collection system. Other related documents already prepared for the facility may be used as part of the MMP and may be incorporated by reference. At a minimum, the MMP must include the following elements as described in detail below:
 - a. <u>Monitoring</u> Monitoring at Outfall 001, influent and other locations tributary to compliance points shall be performed using either USEPA Method 1631 or another sufficiently sensitive method, as approved under 40 CFR Part 136¹. Monitoring of raw materials, equipment, treatment residuals, and other non-wastewater/non-stormwater substances may be performed using other methods as appropriate. Monitoring must be coordinated so that the results can be effectively compared between locations.

Minimum required monitoring is as follows:

- i. <u>Sewage Treatment Plant Influent and Effluent</u> The permittee must collect samples at the location(s) and frequency as specified in the SPDES permit limitations table.
- ii. <u>Key Locations and Potential Mercury Sources</u> The permittee must sample *key locations*, chosen to identify *potential mercury sources*, at least semi-annually. Sampling of discharges from dental facilities in compliance with 6 NYCRR 374.4 is not required.
- iii. <u>Hauled Wastes</u> The permittee must establish procedures for the acceptance of hauled waste to ensure the hauled waste is not a potential mercury source. Loads which may exceed 500 ng/L,² must receive approval from the DEC prior to acceptance.
- iv. Additional monitoring must be completed as required elsewhere in this permit (e.g., locations tributary to compliance points).
- b. <u>Control Strategy</u> The control strategy must contain the following minimum elements:
 - i. <u>Pretreatment/Sewer Use Law</u> The permittee must review pretreatment program requirements and the Sewer Use Law (SUL) to ensure it is up-to-date and enforceable with applicable permit requirements and will support efforts to achieve a dissolved mercury concentration of 0.70 ng/L in the effluent.
 - ii. Monitoring and Inventory/Inspections for Outfall 001 -
 - 1) Monitoring shall be performed as described in 2.a above. As mercury sources are found, the permittee must enforce its sewer use law to track down and minimize these sources.
 - 2) The permittee must inventory and/or inspect users of its system as necessary to support the MMP.
 - a) Dental Facilities
 - 1. The permittee must maintain an inventory of each dental facility.
 - 2. The permittee must inspect each dental facility at least once every five years to verify compliance with the wastewater treatment operation, maintenance, and notification elements of 6 NYCRR 374.4. Alternatively, the permittee may develop and implement an outreach program,³ which informs users of their responsibilities, and collect the "Amalgam Waste Compliance Report for Dental Dischargers"⁴ form, as needed, to satisfy the inspection requirements. The permittee must conduct the outreach program at least once every five years and ensure the "Amalgam Waste Compliance Report for Dental Dischargers" are submitted by new users, as necessary. The outreach program could be supported by a subset of site inspections.
 - 3. A file shall be maintained containing documentation demonstrating compliance with 2.b.ii.2)a) above. This file shall be available for review by DEC representatives and copies shall be provided upon request.
 - b) Other potential mercury sources

⁴ The form, "Amalgam Waste Compliance Report for Dental Dischargers," can be found here:

¹ Outfall monitoring must be conducted using the methods specified in Table 8 of *DOW 1.3.10*.

²A level of 0.2 mg/L (200,000 ng/L) or more is considered hazardous per 40 CFR Part 261.11. 500 ng/L is used here to alert the permittee that there is an unusual concentration of mercury and that it will need to be managed appropriately.

³ For example, the outreach program could include education about sources of mercury and what to do if a mercury source is found.

https://www.dec.ny.gov/docs/water_pdf/dentalform.pdf

- 1. The permittee must maintain an inventory of other *potential mercury sources*.
- 2. The permittee must inspect other *potential mercury sources* once every five years. Alternatively, the permittee may develop and implement an outreach program which informs users of their responsibilities as *potential mercury sources*. The permittee must conduct the outreach program at least once every five years. The outreach program should be supported by a subset of site inspections.
- 3. A file shall be maintained containing documentation demonstrating compliance with 2.b.ii.2)b) above. This file shall be available for review by DEC representatives and copies shall be provided upon request.
- iii. <u>Systems with CSO & Type II SSO Outfalls</u> Permittees must prioritize *potential mercury sources* upstream of CSOs and Type II SSOs for mercury reduction activities and/or controlled-release discharge.
- iv. <u>Equipment and Materials</u> Equipment and materials (e.g., thermometers, thermostats) used by the permittee, which may contain mercury, must be evaluated by the permittee. As equipment and materials containing mercury are updated/replaced, the permittee must use mercury-free alternatives, if possible.
- v. <u>Bulk Chemical Evaluation</u> For chemicals, used at a rate which exceeds 1,000 gallons/year or 10,000 pounds/year, the permittee must obtain a manufacturer's certificate of analysis, a chemical analysis performed by a certified laboratory, and/or a notarized affidavit which describes the substances' mercury concentration and the detection limit achieved. If possible, the permittee must only use bulk chemicals utilized in the wastewater treatment process which contain <10 ppb mercury.
- c. <u>Status Report</u> An annual status report must be developed and maintained on site, in accordance with the <u>Schedule of Additional Submittals</u>, summarizing:
 - i. All MMP monitoring results for Outfalls 001 for the previous reporting period;
 - ii. A list of known and potential mercury sources for Outfall 001;
 - 1) If the permittee meets the criteria for MMP Type IV, the permittee must notify the DEC for a permittee-initiated modification;
 - iii. All actions undertaken, pursuant to the control strategy, during the previous reporting period;
 - iv. Actions planned, pursuant to the control strategy, for the upcoming reporting period; and
 - v. Progress towards achieving a dissolved mercury concentration of 0.70 ng/L in the effluent (e.g., summarizing reductions in effluent concentrations as a result of the control strategy implementation and/or installation/modification of a treatment system).

The permittee must maintain a file with all MMP documentation. The file must be available for review by Department representatives and copies must be provided upon request in accordance with 6 NYCRR 750-2.1(i) and 750-2.5(c)(4).

- 3. <u>MMP Modification</u> The MMP must be modified whenever:
 - a. Changes at the facility, or within the collection system, increase the potential for mercury discharges;
 - b. Effluent discharges exceed the current permit limitation(s); or
 - c. A letter from the DEC identifies inadequacies in the MMP.

The DEC may use information in the status reports, as applicable in accordance with 2.c of this MMP, to determine if the permit limitations and MMP Type is appropriate for the facility.

DEFINITIONS:

Key location – a location within the collection/wastewater system (e.g. including but not limited to a specific manhole/access point, tributary sewer/wastewater connection, or user discharge point) identified by the permittee as a potential mercury source. The permittee may adjust key locations based upon sampling and/or best professional judgement.

Potential mercury source – a source identified by the permittee that may reasonably be expected to have total mercury contained in the discharge. Some potential mercury sources include switches, fluorescent lightbulbs, cleaners, degreasers, thermometers, batteries, hauled wastes, universities, hospitals, laboratories, landfills, Brownfield sites, or raw material storage.

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.

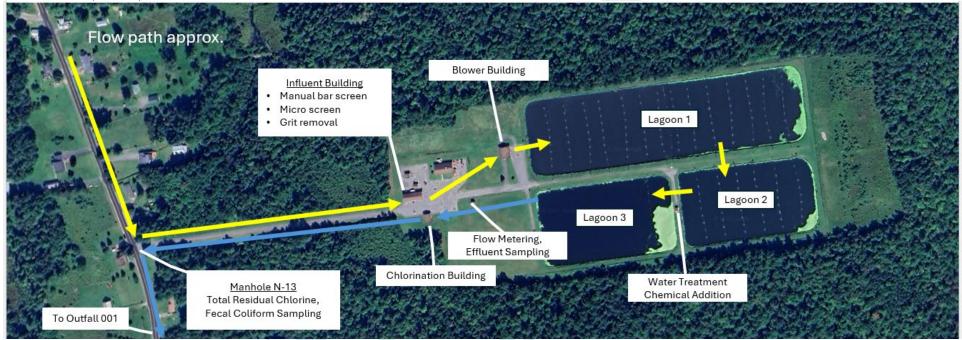
The signs shall have **minimum** dimensions of eighteen inches by twenty-four inches (18" x 24") and shall have white letters on a green background and contain the following information:

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

- (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 Influent Building (influent) and manhole N-13 (effluent).



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 I as follows:

B. General Conditions

- 1. Duty to comply
- 2. Duty to reapply
- 3. Need to halt or reduce activity not a defense
- 4. Duty to mitigate
- 5. Permit actions
- 6. Property rights
- 7. Duty to provide information
- 8. Inspection and entry
- C. Operation and Maintenance
 - 1. Proper Operation & Maintenance
 - 2. Bypass
 - 3. Upset
- D. Monitoring and Records
 - 1. Monitoring and records
 - 2. Signatory requirements
- E. Reporting Requirements
 - 1. Reporting requirements
 - 2. Anticipated noncompliance
 - 3. Transfers
 - 4. Monitoring reports
 - 5. Compliance schedules
 - 6. 24-hour reporting
 - 7. Other noncompliance
 - 8. Other information
 - 9. Additional conditions applicable to a POTW
- F. Planned Changes
 - 1. The permittee shall give notice to the DEC as soon as possible of planned physical alterations or additions to the permitted facility when:

6 NYCRR 750-2.9

- a. The alteration or addition to the permitted facility may meet any of the criteria for determining whether facility is a new source in 40 CFR §122.29(b); or
- b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject either to effluent limitations in the permit, or to notification requirements under 40 CFR §122.42(a)(1); or
- c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

In addition to the DEC, the permittee shall submit a copy of this notice to the United States Environmental Protection Agency at the following address: U.S. EPA Region 2, Clean Water Regulatory Branch, 290 Broadway, 24th Floor, New York, NY 10007-1866.

6 NYCRR 750-2.5, 2.7 & 1.17 6 NYCRR 750-2.7(a) 6 NYCRR 750-1.17 6 NYCRR 750-2.5(e) 6 NYCRR 750-1.14(d) 6 NYCRR 750-2.7(c) & (d) 6 NYCRR 750-2.7(e) 6 NYCRR 750-2.1(f)

6 NYCRR 750-2.1(e) & 2.4 6 NYCRR 750-1.16(a) 6 NYCRR 750-2.1(g) 6 NYCRR 750-2.7(f) 6 NYCRR 750-1.1(c), 1.18, 1.20 & 2.1(h) 6 NYCRR 750-2.2(b) 6 NYCRR 750-2.1(i) 6 NYCRR 750-2.1(a) & 2.3

6 NYCRR 750-2.8 6 NYCRR 750-1.2(a)(17), 2.8(b) & 2.7 6 NYCRR 750-1.2(a)(94) & 2.8(c)

6 NYCRR 750-2.5(a)(2), 2.5(a)(6), 2.5(c)(1), 2.5(c)(2), & 2.5(d) 6 NYCRR 750-1.8 & 2.5(b)

GENERAL REQUIREMENTS (continued)

- 2. Notification Requirement for POTWs All POTWs shall provide adequate notice to the Department and the USEPA of the following:
 - a. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to section 301 or 306 of CWA if it were directly discharging those pollutants; or
 - b. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
 - c. For the purposes of this paragraph, adequate notice shall include information on:
 - i. the quality and quantity of effluent introduced into the POTW, and
 - ii. any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

POTWs shall submit a copy of this notice to the United States Environmental Protection Agency, at the following address:

U.S. EPA Region 2, Clean Water Regulatory Branch, 290 Broadway, 24th Floor, New York, NY 10007-1866

G. Sludge Management

The permittee shall comply with all applicable requirements of 6 NYCRR Part 360.

H. 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 DEC, 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.

I. Water Treatment Chemicals (WTCs)

New or increased use and discharge of a WTC requires prior DEC review and authorization. At a minimum, the permittee must notify the DEC in writing of its intent to change WTC use by submitting a completed *WTC Notification Form* for each proposed WTC. The DEC 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 DEC. 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 in writing by the DEC.
- 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 that 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 DEC'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 DEC or its designated agent.
- B. <u>Discharge Monitoring Reports (DMRs)</u>: Completed DMR forms shall be submitted for each **one (1)** month reporting period in accordance with the DMR Manual available on DEC's website.

DMRs must be submitted electronically using the electronic reporting tool (NetDMR) specified by DEC. Instructions on the use of NetDMR can be found at https://www.dec.ny.gov/chemical/8461.html. Hardcopy paper DMRs will only be accepted if a waiver from the electronic submittal requirements has been granted by DEC to the facility.

Attach the monthly "Wastewater Facility Operation Report" (form 92-15-7) and any required DMR attachments electronically to the DMR or with the hardcopy submittal.

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 Regional Water Engineer 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 5 232 Golf Course Road, Warrensburg, New York, 12885-1172 Phone: (518) 623-1200

- D. <u>Bypass and Sewage Pollutant Right to Know Reporting</u>: In accordance with the Sewage Pollutant Right to Know Act (ECL § 17-0826-a), Publicly Owned Treatment Works (POTWs) are required to notify DEC and Department of Health within two hours of discovery of an untreated or partially treated sewage discharge and to notify the public and adjoining municipalities within four hours of discovery. Information regarding reporting and other requirements of this program may be found on the DEC's website. In addition, POTWs are required to provide a five-day incident report and supplemental information to the DEC in accordance with Part 750-2.7(d) by utilizing the Division of Water Report of Noncompliance Event form unless waived by DEC on a case-by-case basis.
- E. Schedule of Additional Submittals:

The permittee shall submit the following information to the Regional Water Engineer and to the Bureau of Water Permits, unless otherwise instructed:

	SCHEDULE OF ADDITIONAL SUBMITTALS	
Outfall(s)	Required Action	Due Date
001	EMERGING CONTAMINANT (EC) MINIMIZATION PROGRAM The permittee shall initiate track down of potential sources by utilizing the "Emerging Contaminants Investigation Checklist for POTWs" available at <u>Emerging</u> <u>Contaminants In NY's Waters - NYSDEC</u> .	Confirmation of initial Action Level exceedance
	 The permittee shall continue track down of potential sources and submit reports summarizing: a. All EC monitoring results taken to date; b. A list of known and potential EC sources; c. All actions taken to reduce EC contaminants; and Proposed next steps, including a monitoring plan to identify/confirm EC sources, and ensure continued progress towards minimization/eliminating contaminants. 	12 months after initiating track down and every 6 months thereafter until effluent falls below action levels for at least 12 months or
		until further notified by the Department
N/A	WATER TREATMENT CHEMICAL (WTC) ANNUAL REPORT FORM The permittee shall submit a completed WTC Annual Report Form each year that Water Treatment Chemicals are used. The form shall be attached to the December DMR .	Annually Every January 28 th
N/A	ANNUAL FLOW CERTIFICATION The permittee shall submit an Annual Flow Certification form each year in accordance with 750-2.9(c)(4). The form shall be attached to the February DMR or submitted through nForm.	Annually Every March 28 th
001	BIENNIAL POLLUTANT SCAN The permittee shall implement an ongoing monitoring program and perform effluent sampling every two (2) years as specified in footnote 3of the permit limits table.	Retain and submit with next NY-2A Application
001	WHOLE EFFLUENT TOXICITY (WET) TESTING WET testing shall be performed as required in the footnote of the permit limits table. The toxicity test report including all information requested of this permit shall be attached to your WET DMRs and sent to the <u>WET@dec.ny.gov</u> email address.	Within 60 days following the end of each monitoring period
001	STORMWATER NO EXPOSURE CERTIFICATION Permittee must recertify every five years a condition of no exposure to stormwater in order to continue to qualify for the no exposure exclusion. The No Exposure Certification Form can be found on the DEC website.	08/12/2029 and every 5 years thereafter
N/A	MERCURY MINIMIZATION PLAN The permittee must complete and maintain onsite an annual mercury minimization status report in accordance with the requirements of this permit.	<i>Maintained</i> <i>Onsite</i> EDP + 12 months, annually thereafter

Unless noted otherwise, the above actions are one-time requirements.

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- F. 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.
- G. 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.
- H. Calculations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.
- I. 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.
- J. 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 Village of Dannemora Dannemora Wastewater Treatment Plant NY0022195



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Summary of Permit Changes

A State Pollutant Discharge Elimination System (SPDES) EBPS permit renewal, and full technical review has been drafted for the Dannemora Wastewater Treatment Plant (WWTP). The changes to the permit are summarized below:

<u>General</u>

• Updated permit format, definitions, and general conditions

Outfall 001

- Added a new Biennial Pollutant Scan requirement
- Added a new daily maximum mercury limit of 50 ng/L, 12-month rolling average limit of 12 ng/L, and associated Mercury Minimization Plan (MMP) Type I requirement
- Extended the disinfection season to start on the first of the month and end on the last day
 of the month (May 1st October 31st)
- Removed influent monitoring for temperature, total Kjeldahl nitrogen, ammonia, phosphorus, settleable solids, and mercury
- Increased the monitoring frequency for ammonia and TKN
- Added an action level for total phenols of 73 ug/L
- Added action levels for Perfluorooctanoic Acid (PFOA) and Perfluorooctanesulfonic Acid (PFOS) and associated Emerging Contaminant (EC) Minimization Program
- Added requirement to recertify Stormwater No Exposure Certification every 5 years
- Added WET action levels of 13 TUa and 69 TUc and WET testing language

This fact sheet 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 <u>Appendix</u> linked throughout this fact sheet.

Administrative History

12/1/2009 The last full technical review was performed and the SPDES permit became effective with a new five-year term and expiration date of 11/30/2014. The 2009 permit, along with all subsequent modifications, has formed the basis of this permit.

The permit was administratively renewed in 2014 and effective until 11/30/2019, at which time the permit was allowed to stay in effect pursuant to SAPA¹.

- 7/1/2012 Permit was modified to include:
 - Reduced (less stringent) BOD₅ percent removal requirements, from 85% to 67%
 - Removed influent flow monitoring requirement
 - Removed nitrates monitoring
 - Removed Priority Pollutant scan requirements
 - New mercury limitations and minimization program language
 - Removed industrial survey requirements
 - Removed influent sampling for phosphorus

1/23/2019 The permittee submitted a timely and sufficient application for permit renewal.

Permittee: Village of Dannemora
Facility: Dannemora Wastewater Treatment Plant
SPDES Number: NY0022195
USEPA Major/Class 05 Municipal

- 12/1/2019 The current permit was allowed to stay in effect pursuant to SAPA¹.
- 12/4/2023 DEC issued a Request for Information (RFI) to modify and renew the SPDES permit due to the facility's EBPS score². At the time of the RFI, the facility had an EBPS score of 235 and ranking of 11 out of 235 Region 5 permits.
- 3/20/2024 The permittee requested additional time to perform sampling per the RFI.
- 5/8/2024 The permittee submitted a Form NY-2A Application to the Department.
- 7/5/2024 The Department sent a Request for Additional Information to the permittee.
- 10/3/2024 The permittee submitted all requested additional items.

The Notice of Complete Application, published in the <u>Environmental Notice Bulletin</u> and newspapers, contains information on the public notice process.

Facility Information

The facility is a publicly owned treatment works that receives flow from domestic users and the Dannemora Correctional Facility with effluent consisting of treated sanitary wastewater. The facility was built in 1981 and last updated in 1999. The collection system consists of separate sewers. The facility does not have any significant industrial users (SIUs).

The current 1.5 MGD treatment plant consists of:

- Bar screens
- Aerated lagoons (3 total)
- Chemical addition for phosphorous removal
- Chlorine disinfection (seasonal)

Sludge is currently maintained in the lagoons and the permittee is working with a consultant to dredge the sludge. The facility does not have any other planned improvements.

The primary outfall, Outfall 001, is a single 18" pipe discharging to the Saranac River. The distance between the treatment facility and the outfall is approximately 2.3 miles. The port is submerged at normal river conditions and about 20 feet from the shore.

The Dannemora Correctional Facility treats its wastewater with grinders before sending to the facility.

The facility accepts wastewater from the following municipalities:

Municipality	POSS # or SPDES #	Collection System
Village of Dannemora	NY0022195	Separate
Town of Dannemora	NYS500029	Separate

¹ State Administrative Procedures Act Section 401(2) and 6 NYCRR 621.11(*I*)

² Pursuant to 6 NYCRR 750-1.18 and NYS Environmental Benefit Permit Strategy (EBPS)

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Figure 1: Overview of Dannemora Wastewater Treatment Plant

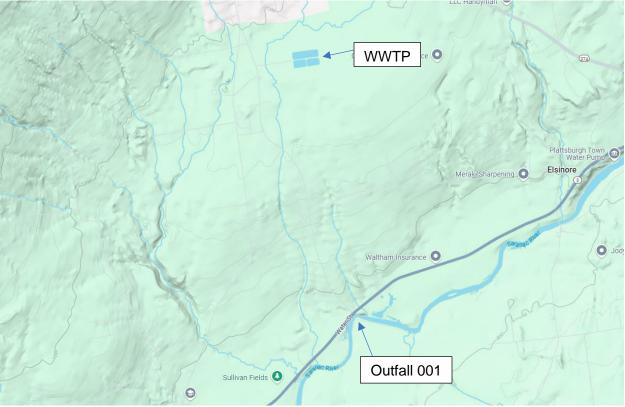


Figure 2: Map showing location of wastewater treatment plant and Outfall 001 on the Saranac River.

Site Overview

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Enforcement History

Compliance and enforcement information can be found on the EPA's <u>Enforcement and</u> <u>Compliance History Online (ECHO)</u> website.

Existing Effluent Quality

The <u>Pollutant Summary Table</u> presents the existing effluent quality and effluent limitations. The existing effluent quality was determined from Discharge Monitoring Reports and the application submitted by the permittee for the period April 2019 to April 2024. <u>Appendix Link</u>

Receiving Water Information

The facility discharges via the following outfalls:

Outfall No.	SIC Code	Wastewater Type	Receiving Water
001	4952	Treated Sanitary Sewage	Saranac River, Class C(T)

Reach Description: Measured from the discharge, the model included the Saranac River (C-15, portion 3) from Outfall 001 to the Cadyville WWTP (NY0255751) located ~4.4 miles downstream. The model also included three dams (Cadyville, Mill C, and Kent Falls) located ~5.3 miles downstream of Outfall 001; and the Schuyler Falls Closed Landfill (NY0256552) located ~7.6 miles downstream of Outfall 001. The model accounted for the change in waterbody classification from Class C(T) to A ~0.5 miles downstream of the discharge and the change back to Class C(T) ~5.3 miles downstream of Outfall 001.

See the Outfall and Receiving Water Summary Table and Appendix for additional information.

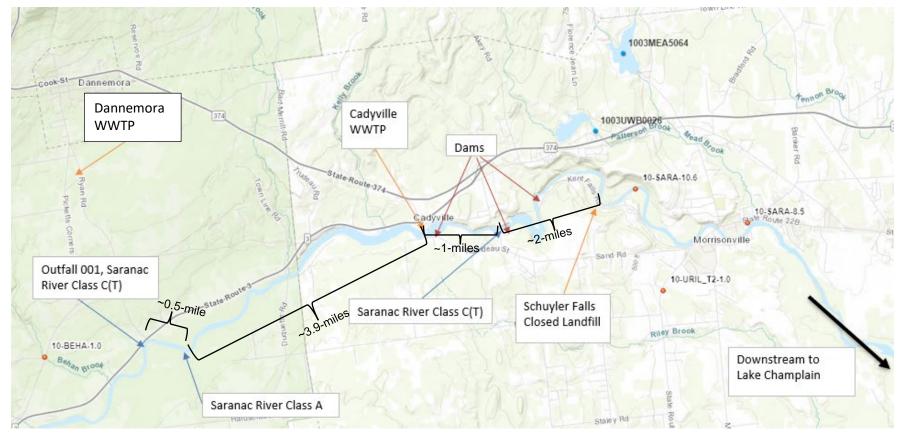


Figure 3. Downstream reach and waterbody classification.

Impaired Waterbody Information

In 2002, a TMDL was approved for the Lake Champlain watershed to address phosphorus. As part of the TMDL, the Village is required to continue to sample and report Total Phosphorus as P and will continue to meet the previously given 12 month rolling average load limitation of 20.3 lbs/d.

Outfall No.	Parameter	Wasteload Allocation
001	Total Phosphorus as P (12 MRA)	20.3 lbs/d

See the <u>Pollutant Summary Table</u> for a discussion on the derivation of Total Phosphorus effluent limits.

Critical Receiving Water Data

The low flow condition for the Saranac River was obtained from a drainage basin ratio analysis with USGS gage station 04273000, Saranac River at Saranac, NY located approximately 4 miles upstream of the facility. The 1Q10, 7Q10, and 30Q10 flows at the gage were found from the USGS Hydrologic Toolbox software and an analysis of data from 1931 to 1943.

DRAINAGE BASIN RATIO	1Q10	7 Q10	30Q10
Gage Name	Saranac River at Saranac NY	Saranac River at Saranac NY	Saranac River at Saranac NY
Gage ID Number	04273000	04273000	04273000
Low Flow at Gage (cfs)	93.782	148.01	169.1
Drainage Area at Gage (mi ²)	521	521	521
Drainage Area at Facility (mi ²)	553	553	553
Drainage Basin Ratio (facility / gage)	1.1	1.1	1.1
Calculated Flow at Facility (cfs)	99.54	157.10	179.49

The 1Q10, 7Q10, and 30Q10 flows were used to calculate the acute, chronic, and human, aesthetic, wildlife (HEW) dilution ratios, respectively and are consistent with values used during the previous permit review.

Dilution Ratio = (Facility Flow + Low Flow) / Facility Flow

Outfall No.	Acute Dilution Ratio A(A)	Chronic Dilution Ratio A(C)	Human, Aesthetic, Wildlife Dilution Ratio (HEW)	Basis
001	44:1	69:1	78:1	TOGS 1.3.1

Critical receiving water data are listed in the <u>Pollutant Summary Table</u> at the end of this fact sheet. <u>Appendix Link</u>

Permit Requirements

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

Whole Effluent Toxicity (WET) Testing

An evaluation of the discharge indicates the potential for toxicity because the facility is greater than or equal to 1.0 MGD. <u>Appendix Link</u>

The requirement for WET testing is new. No previous WET data was available to perform a

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reasonable potential analysis. Consistent with TOGS 1.3.2, given the dilution available and location outside of the Great Lakes watershed basin, the permit requires acute and if directed chronic WET testing. WET testing action levels of **13 TUa** and **69 TUc** have been included in the permit for each species. The acute action level for each species represent the acute dilution ratio times a factor of 0.3. The chronic action levels represent the chronic dilution ratio. Samples will be collected at a frequency of once per calendar quarter every five (5) years.

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. <u>Appendix Link</u>

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)³ determination. <u>Appendix Link</u>

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.

Stormwater Pollution Prevention Requirements

The facility is a publicly owned treatment works greater than 1.0 MGD in size that requires SPDES permit coverage under 40 CFR 122.26 (b)(14)(ix).

On 8/12/2024, the permittee submitted a Conditional Exclusion for No Exposure Form, certifying that all industrial activities and materials are completely sheltered from exposure. This condition must be maintained for the exclusion to remain applicable. The Schedule of Additional Submittals also includes a due date for re-certification every five years as required by 40 CFR 122.26(g)(iii). This requirement is new.

Temperature Requirements for Municipal Discharges to Trout Streams

For municipal discharges to streams classified as trout (T) or trout spawning (TS), the Department has reviewed the dilution and maximum reported effluent temperature.

The facility does not have a reasonable potential to cause or contribute to an excursion above the thermal criteria of 6 NYCRR 704. Therefore, the permit includes "monitor only" for effluent temperature as a year-round requirement.

Mercury⁴

The multiple discharge variance (MDV) for mercury provides the framework for DEC to require mercury monitoring and mercury minimization programs (MMPs), through SPDES permitting.

The facility is an EPA Major Class 05 facility located outside of the Great Lakes drainage basin and is a possible source of mercury (dental facilities connected to the sewer system and hauled

³ As prescribed by 6 NYCRR Part 617

⁴ In accordance with DOW 1.3.10 Mercury – SPDES Permitting & Multiple Discharge Variance (MDV), December 30, 2020.

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waste accepted). Therefore, the permit includes requirements for the implementation of MMP Type I. The previous permit contained annual effluent monitoring for mercury and trackdown and inspection language for possible mercury sources.

Based on six (6) data points, collected as part of the application and the facility's annual mercury sampling requirement, the facility is expected to meet the new daily maximum permit limit of 50 ng/L (with a quarterly sampling frequency) and the new 12-month rolling average permit limit of 12 ng/L (calculated monthly). The limit represents the general level currently achievable (GLCA). The data collected will be used to establish an additional 12-month rolling average effluent limit during the next permit review. <u>Appendix Link</u>

A mercury minimization program consisting of the following is also required:

- Additional monitoring of key locations, as defined in the MMP
- Control strategy for implementation of the MMP
- Annual status report (maintained onsite)

Biennial Pollutant Scan

Three effluent samples for applicable parameters must be submitted with an NY-2A Application⁵. The permit includes a requirement to perform biennial sampling (once every two years) of the WWTP effluent for the parameters in the NY-2A Application, Tables A – D. This requirement ensures the data is representative of effluent conditions over the permit term and will be available for the next application submittal and permit review. This requirement is new.

Emerging Contaminant Monitoring

Given the emerging nature of these contaminants; the USEPA's addition of PFOA and PFOS to the hazardous substance list under CERCLA; the USEPA's addition of PFOA and PFOS to the recommended contaminant monitoring list for state fish advisory programs; and pursuant to 6 NYCRR 750-1.14(f), the Department is imposing Action Levels, and minimization programs when there is confirmation those Action Levels are exceeded. This requirement is being imposed for the protection of the downstream receiving waterbody and to gather additional data needed to support establishment of TBELs.

Based on the available data and detections of PFOA and PFOS, Action Levels set at the Maximum Contaminant Level (MCL) of 10 ng/L are specified with monitoring required for the remaining 38 PFAS compounds pursuant to 6 NYCRR Part 750-1.13(b). Monitoring requirements are also consistent with guidance released in EPA memos dated April 28, 2022, and December 5, 2022. Please see the Pollutant Summary Table below for more information.

Schedule of Additional Submittals

A schedule of additional submittals has been included for the following (Appendix Link):

- Emerging Contaminant (EC) Minimization Program: Requires the trackdown of ECs upon initial exceedance of action level.
- Water Treatment Chemical (WTC) Annual Report Form: To be submitted every January 28th for the preceding year.
- Annual Flow Certification: Requires the submission of an Annual Flow Certification form in accordance with 750-2.9(c)(4).
- Biennial Pollutant Scan: Requires the implementation of an ongoing monitoring program and perform a Priority Pollutant (ref. 40 CFR 423, Appendix A) scan even two years.

⁵ Pursuant to 40 CFR 122.21(j)(4)(vi).

- Stormwater No Exposure Certification: Permittee must recertify every five years after 8/12/2024 (date of initial receipt) a condition of no exposure to stormwater to continue to qualify for the no exposure exclusion.
- Mercury Minimization Plan: Requires the MMP to be developed and maintained on-site.

OUTFALL AND RECEIVING WATER SUMMARY TABLE

					Water Index No. /	Major /					Critical	Dil	ution Ra	atio
Outfall	Latitude	Longitude	Receiving Water Name	Water Class	Priority Waterbody Listing (PWL) No.	Sub Basin	Hardness (mg/l)	1Q10 (MGD)	7Q10 (MGD)	30Q10 (MGD)	Effluent Flow (MGD)	A(A)	A(C)	HEW
001	44° 40' 30" N	73° 42' 08" W	Saranac River	C(T)*	C-15 (portion 3) (Item: 830-58) PWL: 1003-0021	10/03	33.6 ⁶	64	102	116	1.5	44:1	69:1	78:1

*Note: The water quality review accounted for the change in class from Class C(T) to Class A approximately 0.5 miles downstream of Outfall 001. The limits shown below are protective of Class A waterbodies and "trout" (T) standards.

POLLUTANT SUMMARY TABLE

Outfall 001

Quittell #	001	Descripti	on of Wa	stewater	: Treated S	anitary Sev	wage								
Outfall #	001	Type of T	reatmen	t: Grit Re	moval, Lag	oons, Chen	nical Phospho	orus Remova	al, Chlorine Di	isinfection					
			Existin	ig Discha	rge Data	TE	BELs			Water Quality D	Data & WQBELs				
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality ⁷	# 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	ML	Basis for Permit Requirement
General Note reviewed for c	es: Exis develop	sting discha oment of th	arge data e WQBE	from 4/1/ Ls. The s	2019 to 4/3 (2019 to 4/3) (2019 to 4/3)	0/2024 was d WQBEL s	s obtained from hown below re	n Discharge epresent the	e Monitoring R e most stringe	eports provided	by the permittee	. All applicable	water qua	lity s	andards were
	MGD	Monthly Avg	1.5	0.54 Actual Avg	60/0	1.5	Design Flow	Narrative: I	No alterations	that will impair t	he waters for the	eir best	702.2	-	Design Flow
Flow Rate	NIGD	Daily Max	Monitor	1.5 Actual Max	60/0	-	-	usages.					<u>703.2</u>	-	Monitor 750-1.13
							monthly aver nal purposes				aily design capa	city of the treat	ment plan	t is s	pecified. Daily

⁶ Ambient hardness was gathered from RIBs station 10-SARA-8.5, located ~10.5 miles downstream, from one (1) sample collected in 2018.

⁷ Existing Effluent Quality: Unless otherwise stated, Daily Max = 99% lognormal; Monthly Avg = 95% lognormal (for datasets with \leq 3 nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with >3 nondetects)

0.464	0.04	Descripti	on of Wa	astewate	r: Treated S	Sanitary Sev	wage								
Outfall #	001	Type of T	reatmen	t: Grit Re	moval, Lag	oons, Cher	nical Phospho	orus Remov	al, Chlorine Di	sinfection					
			Existin	ng Discha	rge Data	TE	3ELs			Water Quality D	ata & WQBELs				
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality ⁷	# 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	ML	Basis for Permit Requirement
	SU	Minimum	6.0	6.4 Actual Min	60/0	6.0	TOGS 1.3.3	7.5 ⁸	_	6.5 - 8.5	Range	No Reasonable	703.3		TBEL
рН		Maximum	9.0	9.2 Actual Max	60/0	9.0	1000 1.3.5	7.5		0.0 - 0.0	Range	Potential	<u>703.3</u>		TDEE
	Consi the W		TOGS 1.3		DTWs, TBE	Ls reflect s	econdary trea	tment stand	dards. Given th	ne available dilu	ition, an effluent	limitation equa	al to the TE	BEL i	s protective of
	°F	Daily Max	Monitor	80 Actual Max	60/0	-	-				perature over 70 classified for tro		<u>704.2</u>	-	Monitor 750-1.13
Temperature	from t	he previou	s permit,	but influe	nt monitorir	ng is being		as it is no lo	nger needed fo		ons. The effluen purposes. See t				
Dissolved	mg/L	Daily Min	-	-	-	-	-	-	5.3 Critical Point	(T) 5.0 mg/L	Narrative	No Reasonable Potential	<u>703.3</u>	-	No Limitation
Oxygen (DO) June 1 st – Oct. 31 st	Kent I water The d TOGS	Falls) locat body classi ownstream \$ 1.3.1D), E	ification fi DO cond	miles dow rom Class centration mmonia =	/nstream; a s C(T) to Cla was model 7.2 mg/L (nd the Sch ass A ~0.5 led using th actual sum	uyler Falls Cl miles downstr e Streeter-Ph mer maximum	osed Landf eam of the elps equation reported fr	ill (NY0256552 discharge and ons and the fol	2) located ~7.6 the change bac lowing assumpt d Effluent CBOI	d ~4.4 miles down miles downstrea ck to Class C(T) ions: Effluent DC $D_5 = 40$ mg/L (fro	m. The model ~5.3 miles dow) = 2.0 mg/L (a	accounted Instream.	d for alue c	the change in consistent with
Dissolved Oxygen		Daily Min		-	-	-	-	-	8.2 Critical Point	(T) 5.0 mg/L	Narrative	No Reasonable Potential	<u>703.3</u>	-	No Limitation
(DÓ) Nov. 1 st – May 31 st	The d	5 1.3.1D), E	n DO cono Effluent A	centration	= 15 mg/L (actual winte	er maximum r	eported from		Effluent CBOD	ions: Effluent DC ₅ = 40 mg/L (froi				

⁸ Ambient pH calculated from RIBs station 10-SARA-21.8, located ~4 miles upstream, as 75th percentile of six (6) samples collected from 1993 to 2008. PAGE 13 OF 32

0	001	Description	on of Wa	astewate	: Treated S	Sanitary Sev	wage								
Outfall #	001	Type of T	reatmen	t: Grit Re	moval, Lag	oons, Cher	nical Phospho	rus Remov	al, Chlorine Di	sinfection					
			Existir	ng Discha	rge Data	TE	BELs			Water Quality I	Data & WQBELs				
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality ⁷	# 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	ML	Basis for Permit Requirement
		Monthly Avg	30	12	60/0	30	40 CFR 133.102								
5-day	mg/L	7 Day Avg	45	42	60/0	45	40 CFR 133.102								
Biochemical Oxygen	11- /-1	Monthly Avg	380	48	60/0	380	40 CFR 133.102	-		See Disso	lved Oxygen		-	-	TBEL
Demand (BOD₅)	lb/d	7 Day Avg	560	285	60/0	560	40 CFR 133.102								
	% Rem	Monthly Avg	67	94	60/0	85	40 CFR 133.102								
	Consi	stent with 4	0 CFR F	Part 133.1	02 and TO	GS 1.3.3 fo	r POTWs, TBE	ELs reflect s	secondary trea	atment standard	ls. See justificatio	on for Dissolved	d Oxygen.		
		Monthly Avg	30	13	60/0	30	TOGS 1.3.3								
	mg/L	7 Day Avg	45	67 99% Lognormal 43 Actual Max 14 Actual Avg	60/0	45	TOGS 1.3.3	_			ige, industrial wa osition or impair t		703.2	-	TBEL
Total Suspended	lle /el	Monthly Avg	380	51	60/0	380	TOGS 1.3.3				st usages.				
Solids (TSS)	lb/d	7 Day Avg	560	420	60/0	560	TOGS 1.3.3								
	% Rem	Monthly Avg	85	97	60/0	85	TOGS 1.3.3								
							r POTWs, TBE of the WQS sp				ls. Given the ava	ilable dilution, a	an effluent	limita	ation equal to
Settleable	mL/L	Daily Max	0.3	0.1 Actual Max	3/57	0.3	TOGS 1.3.3	-	wastes that	will cause depo their be	ige, industrial wa osition or impair t ost usages	he waters for	<u>703.2</u>	-	TBEL
Solids											dary treatment w it is not required				
	An ou	tlier of 1.8 i	mL/L me	asured in	the July 20	20 DMR wa	as removed fro	om the data	set.						

Outfall #	001	Descripti	on of Wa	stewate	r: Treated S	Sanitary Sev	wage								
	001	Type of T	reatmen	t: Grit Re	moval, Lag	oons, Chen	nical Phospho	orus Remov	al, Chlorine Di	sinfection					
			Existir	ng Discha	rge Data	TE	BELs			Water Quality [Data & WQBELs				
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality ⁷	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	QBEL WQBEL	ML	Basis for Permit Requiremen
	mg/L	Daily Max	Monitor	7.2 Actual Max	25/0	-	-	0.082	0.16	0.90	H(WS)	No Reasonable Potential	703.5	-	Monitor
	lb/d	Daily Max	Monitor	49 Actual Max	25/0	-	-	-	-	-	-	-			750-1.13
(as N) June 1 st – Oct. 31 st	July/A Outfal conce	ugust) and Il 001 and r Intration of	l a summ nodeled i	er tempei for reasor	rature of 24 nable poten	°C. The ten tial) and is (nperature of t consistent wit	he receiving h TOGS 1.3	waterbody wa 3.1. The projec	as an assumed ted instream co	value for trout want was	aters (which are	e present o	down	stream of
	conce	ntration. A	ation to a comparis	account fo son of the	or the numb projected i	er of sampl nstream co	es. In accordancentration to	ance with To the WQS in	OGS 1.3.1Ĕ, th ndicates no rea	ne HEW dilution asonable potent	3.1D). A multiplie ratio was applie ial to cause or c rmit developmen	ontribute to a W	plied to th he project VQS violat	e ma: ed ins ion di	ximum stream
	conce	ntration. A	ation to a comparis	account fo son of the	or the numb projected i	er of sampl nstream co	es. In accordancentration to	ance with To the WQS in	OGS 1.3.1Ĕ, th ndicates no rea	ne HEW dilution asonable potent	ratio was applie ial to cause or c	d to calculate the ontribute to a W	plied to th he project VQS violat h TOGS 1	e ma: ed ins ion di	ximum stream
	conce summ	entration. A her season. Daily	ation to a comparis Monitori	account fc son of the ng as a d 15 Actual Max 125 Actual	or the numb projected i aily maximu	er of sampl nstream co	es. In accordancentration to	ance with To the WQS in the previou	DGS 1.3.1Ĕ, th ndicates no rea us permit to as	ne HEW dilution asonable potent sist in future pe	ratio was applie ial to cause or c rmit developmen	ed to calculate ti ontribute to a W It consistent wit No Reasonable	plied to th he project VQS violat	e ma: ed ins ion di	ximum stream uring the
Nitrogen, Ammonia (as N) Nov. 1 st – May 31 st	conce summ mg/L Ib/d Repoin neces The V tempereaso and a the nu project	Daily Max Daily Max Daily Max tring for wir sary for war VQS for wir erature of 1 nable poten n assumed umber of sacted instrea	ation to a comparis Monitori Monitor Monitor Monitor nter amm ater qualit nter amm 0°C. The ntial) and ambient amples. Ir m conce	account fc son of the ng as a d 15 Actual Max 125 Actual Max onia has l cy purpose onia was temperat is consis upstream accorda ntration to	or the numb e projected i aily maximu 35/0 35/0 been changes. determined ture of the r tent with TC n concentra nce with TC o the WQS	er of sampl instream co um will be c - - ged from (as d from TOG receiving wa DGS 1.3.1. tion of 0.08 DGS 1.3.1E indicates no	es. In accorda ncentration to ontinued from - s NH ₃) to (as S 1.1.1 from a aterbody was The projected 2 mg/L as N (, the HEW dil o reasonable	ance with T(o the WQS in the previou 0.082 - N) as descri- an assumed instream c TOGS 1.3.7 ution ratio w potential to	OGS 1.3.1Ĕ, the ndicates no real us permit to as 0.32 - bed above. Inf (80 th percentile d value for trout oncentration w ID). A multiplie vas applied to of cause or contri	e HEW dilution asonable potent sist in future pe 1.9 - fluent monitoring e of six data point t waters (which vas calculated u er of 1.2 was ap calculate the pro	ratio was applie ial to cause or c rmit developmen H(WS) - g for this parame are present dow sing the maximu plied to the maxi ojected instream violation during	to calculate ti ontribute to a W at consistent wit No Reasonable Potential 	plied to th he project VQS violat th TOGS 1 703.5 iscontinue 21.8) and tfall 001 a centration oncentrati A compar	e ma: ed ins ion di .3.3. d as i a wir nd mo of 15 on to ison o	ximum stream uring the Monitor 750-1.13 t is not t is not odeled for mg/L as N account for of the

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Outfall #		Descripti	Description of Wastewater: Treated Sanitary Sewage														
	001	Type of T	Type of Treatment: Grit Removal, Lagoons, Chemical Phosphorus Removal, Chlorine Disinfection														
			Existin	ng Discha	rge Data	TBELs											
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality ⁷	# 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	ML	Basis for Permit Requirement		
Nitrogen (TKN) as N	lb/d	Daily Max	Monitor	330	60/0	-	-			and slimes tha	s that will result i t will impair the v usages.						
		•			ed from the ssary for wa	• •		in future p	ermit developr	ment consistent	with TOGS 1.3.	3. Influent mon	itoring for	this p	arameter has		
Total Phosphorus	mg/L	Monthly Avg	Monitor	4.1 95% Lognormal 2.0 Actual Avg 3.3 Actual Max	60/0	-	-	-	growths of al		that will result in d slimes that will	Monitor	TMDL / WLA	-	WQBEL		
	lb/d	Monthly Avg	Monitor	12	60/0	-	-	-			best usages.	Monitor					
as P	lb/d	12 MRA	20.3	11	60/0	-	-	-				20.3					
	Consistent with the September 2002 Lake Champlain TMDL, and to maximize phosphorus removal ⁹ to improve the water quality of Lake Champlain, the permit includes total phosphorus concentration monitoring and 12-month rolling average limitation of 20.3 lbs/day. See the <u>Lake Champlain</u> discussion for more information. Influent monitoring for this parameter has been discontinued as it is not necessary for water quality purposes.																
		12-MRA	-	-	-	-	-					12	EEQ		DOW 1.3.10		
Mercury, Total	ng/L	^{/L} Daily Max	Monitor	11 Actual Max 4.9 Actual Avg	5/1	-	-	-	-	0.7	-H(FC)	50	GLCA	-	DOW 1.3.10		
	See <u>N</u>	lercury dis	cussion a	bove. No	te, influent	monitoring	for this param	eter has be	een discontinue	ed as it is not ne	ecessary for wate	er quality purpo	ses.				
	#/100		200	14	25/0	200	TOGS 1.3.3	-			etric mean, from	a minimum of	703.4	_	TBEL		
Coliform, Fecal	mL	7d Geo Mean	400	174	25/0	400	TOGS 1.3.3	-	five examinat		-						
		stent with TBEL are			ent disinfecti	ion is requi	red seasonally	from May	1st - October :	31st, due to the	class of the rece	eiving waterboo	ly. Fecal c	olifor	m limits equal		

Outfall #	001	Descripti	on of Wa	astewate	Treated S	Sanitary Sev	wage																
	Type of Treatment: Grit Removal, Lagoons, Chemical Phosphorus Removal, Chlorine Disinfection																						
			Existing Discharge Data			TE	BELs			Water Quality	Data & WQBELs												
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality ⁷	# 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	ML	Basis for Permit Requirement								
Total Residual Chlorine (TRC)	mg/L	Daily Max	1.5	1.8 99% Lognormal 2.2 Actual Max 0.78 Actual Avg	25/0	2.0	TOGS 1.3.3	-	0.044	0.005	A(C)	1.6	703.5 & TOGS 1.3.1	-	Anti- backsliding								
	ratio c mg/L a	Effluent disinfection is currently required seasonally and will remain a permit requirement. The WQBEL was calculated by multiplying the WQS of 5 µg/L by the chronic dilution ratio of 65 and a decay factor of five (ref. TOGS 1.3.1E). The calculated WQBEL is higher than the previous permit limit of 1.5 mg/L; therefore, the permit limit will remain 1 mg/L as a daily maximum to prevent backsliding.																					
	Unutar				cation				[No		1									
	µg/L	Daily Max	-	3.7 Maximum	1/0	-	-	-	0.34	3.5	A(C)	Reasonable Potential	-	-	No Limitation								
Total Copper	assun A met	ned negligit als translat ted instrea	ble upstre tor of 1.0	eam ambi 042 was a ntration to	ent concen [.] Ilso applied	tration. The I to convert	multiplier was between the	selected fr total and d	om EPA's Teo	oncentration of 3 chnical Support I in accordance v ribute to a WQS	Document Chap with the EPA Do	ter 3.3 to accounce to the ter 3.3 to accounce the termination of terminatio of termination of termination of termination of terminat	nt for the r 96-007. A	umb com	er of samples.								
	mg/L	Daily Max	-	4.5 Maximum	1/0	-	-	-	0.38	10	H(WS)	Reasonable Potential	-	-	No Limitation								
Nitrate, as N	assun	ned negligit	ole upstre	eam ambi	ent concen [®]	tration. The	multiplier was	selected fr	om EPA's Teo	oncentration of chnical Support I otential to cause	Document Chap	tiplier of 6.2, th ter 3.3 to accou	nt for the r	numb	er of samples.								
Nitrite and Nitrate, as N	mg/L	Daily Max	-	4.7 Maximum	1/0	-	-	-	0.40	10	H(WS)	No Reasonable Potential	-	-	No Limitation								
	assun	ned negligit	ole upstre	eam ambi	ent concen	tration. The	multiplier was	s selected fr	om EPA's Teo	oncentration of chnical Support I otential to cause	Document Chap	ter 3.3 to accou	nt for the r	numb	er of samples.								

Outfall #		Descripti	Description of Wastewater: Treated Sanitary Sewage														
Outrall #	001	Type of T	ype of Treatment: Grit Removal, Lagoons, Chemical Phosphorus Removal, Chlorine Disinfection														
			Existing Discharge Data			TBELs		Water Quality Data & WQBELs									
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality ⁷	# 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	ML	Basis for Permit Requirement		
	µg/L	Monthly Avg	-	50 Maximum	1/0	73 – AL	BPJ	-	4.2	1.0	E	74	-	-	Action Level		
	Total The projected instream concentration was calculated using the maximum measured effluent concentration of 50 µg/L, a multiplier of 6.2, the HEW dilution ratio, and an assumed pedigible upstream ambient concentration. The multiplier was selected from EPA's Technical Support Document Chapter 3.3 to account for the number of samples													er of samples. ed by the high			

Emerging Conta	minan	ts Outfall 00	01												
Effluent Parameter	Units		Exis	ting Discha	arge Data		TBELs	Water Quality Data & WQBELs							
		Averaging Period	Permit Limit	Existing Effluent Quality ¹⁰	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis	ML	Basis for Permit Requirement
Notes: See Emerging Contaminant Monitoring section above. Effluent samples were analyzed for the 40 PFAS compounds and 1,4-Dioxane.															
Perfluoro- butanoic Acid	ng/L	Daily Max	-	3.5 Actual Max	1/2	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
(PFBA)	Monitoring has been added to support establishment of future standards or TBELs.														
Perfluoro- pentanoic Acid	ng/L	Daily Max	-	6.4 Actual Max	1/2	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
(PFPeA)	Monito	Monitoring has been added to support establishment of future standards or TBELs.													
Perfluoro- hexanoic Acid	ng/L	Daily Max	-	9.7 Actual Max	1/2	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
(PFHxA)	Monite	Monitoring has been added to support establishment of future standards or TBELs.													
Perfluoro- heptanoic Acid	ng/L	Daily Max	-	5.6 Actual Max	1/2	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
(PFHpA)	Monitoring has been added to support establishment of future standards or TBELs.														
Perfluoro-	ng/L	Daily Max	-	13 Actual Max	1/2	10 Action Level	BPJ MCL	-	ND	6.7	H(WS)	6.7	TOGS 1.1.1	-	Action Level
octanoic Acid (PFOA)	an as sampl howe	sumed neglig es. A compa /er, an action	gible ups arison of h level ha	tream amb the projec s been est	bient concentrated instream of ablished at the	ation. The concentrat e NYSDOH	multiplier was se ion to the guidar	elected fro nce value i aminant Le	m EPA's Te indicates re evel (MCL)	echnical S easonable for finishe	upport Doc potential to d drinking w	ument Chapte cause or cor ater (10 ng/L)	er 3.3 to ac ntribute to a . Discharge	count wate s abo	dilution ratio, and for the number of r quality violation ve the MCL would re information.
Perfluoro- nonanoic Acid	ng/L	Daily Max	-	3.9 Actual Max	1/2	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
(PFNA)	Monitoring has been added to support establishment of future standards or TBELs.														
Perfluoro- decanoic Acid	ng/L	Daily Max	-	2.0	1/2	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
(PFDA)	Monitoring has been added to support establishment of future standards or TBELs.														
Perfluoro- undecanoic Acid	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
(PFUnA)	Monito	oring has bee	en added	to suppor	t establishmer	nt of future	standards or TB	ELs.							

¹⁰ Existing Effluent Quality: Unless otherwise stated, Daily Max = 99% lognormal; Monthly Avg = 95% lognormal (for datasets with \leq 3 nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with >3 nondetects) PAGE 19 OF 32

Date: May 20, 2025 v.1.25 Permit Writer: Peter Maier Water Quality Reviewer: Taylor Shanley Full Technical Review

Emerging Conta	minan	ts Outfall 0	01												
		s Averaging Period	Existing Discharge Data				TBELs	Water Quality Data & WQBELs							
Effluent Parameter	Units		Permit Limit	Existing Effluent Quality ¹⁰	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis	ML	Basis for Permit Requirement
Perfluoro- dodecanoic Acid	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
(PFDoA)	Monito	oring has bee	en added	to suppor	t establishmer	nt of future	standards or TB	ELs.	-						
Perfluoro- tridecanoic Acid	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
(PFTiA)	Monitoring has been added to support establishment of future standards or TBELs.														
Perfluoro- tetradecanoic	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
Acid (PFTeA)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
Perfluoro- butanesulfonic	ng/L	Daily Max	-	1.8 Actual Max	1/2	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
Acid (PFBS)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
Perfluoro- pentanesulfonic	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
Acid (PFPeS)	Monitoring has been added to support establishment of future standards or TBELs.														
Perfluoro- hexanesulfonic	ng/L	Daily Max	-	2.9	1/2	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
Acid (PFHxS)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
Perfluoro- heptanesulfonic	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
Acid (PFHpS)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
Perfluoro- octanesulfonic Acid (PFOS)	ng/L	Daily Max	-	12 Actual Max	1/2	10 Action Level	BPJ MCL	-	ND	2.7	H(WS)	2.7	TOGS 1.1.1	-	Action Level
	assum sampl howev	The projected instream concentration was calculated using the maximum measured effluent concentration of 11.8 ng/L, a multiplier of 6.2, the HEW dilution ratio, and ar assumed negligible upstream ambient concentration. The multiplier was selected from EPA's Technical Support Document Chapter 3.3 to account for the number or samples. A comparison of the projected instream concentration to the guidance value indicates reasonable potential to cause or contribute to a water quality violation however, an action level has been established at the NYSDOH Maximum Contaminant Level (MCL) for finished drinking water (10 ng/L). Discharges above the MCL would indicate the potential presence of a controllable source and the need to implement track down measures. See the Emerging Contaminant section for more information.											for the number of r quality violation; ve the MCL would		
Perfluoro- nonanesulfonic	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
Acid (PFNS)	Monito	oring has bee	en added	to suppor	t establishmer	nt of future	standards or TB	ELs.							
	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13

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Emerging Conta	aminan	ts Outfall 0	01												
	Units	Averaging Period	Existing Discharge Data				TBELs	Water Quality Data & WQBELs							
Effluent Parameter			Permit Limit	Existing Effluent Quality ¹⁰	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis	s ML	Basis for Permit Requirement
Perfluoro- decanesulfonic Acid (PFDS)	Monito	oring has bee	en added	I to suppor	t establishmer	nt of future	standards or TB	BELs.							
Perfluoro- dodecane-	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
sulfonic Acid (PFDoS)	Monito	oring has bee	en added	to suppor	t establishmer	nt of future	standards or TB	ELs.			•			•	
Perfluoro- octane-	ng/L	Daily Max	-	1.5 Actual Max	1/2	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
sulfonamide (FOSA)	Monite	oring has bee	en added	to suppor	t establishmer	nt of future	standards or TB	ELs.				1			
N-methyl Perfluoro-	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
octanesulfon- amidoacetic Acid (NMeFOSAA)	Monito	oring has bee	en added	l to suppor	t establishmer	nt of future	standards or TB	ELs.	1	1	I		1	1	
N-ethyl Perfluoro-	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
octanesulfon- amidoacetic Acid (NEtFOSAA)	Monitoring has been added to support establishment of future standards or TBELs.														
4:2 Fluorotelomer	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
Sulfonic Acid (FTS)	Monite	oring has bee	en added	to suppor	t establishmer	nt of future	standards or TB	ELs.							
6:2 Fluorotelomer	ng/L	Daily Max	-	10	1/2	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
Sulfonic Acid (FTS)	Monite	oring has bee	en added	to suppor	t establishmer	nt of future	standards or TB	ELs.							
8:2 Fluorotelomer	ng/L	Daily Max	-	2.7	1/2	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
Sulfonic Acid (FTS)	Monito	oring has bee	en added	to suppor	t establishmer	nt of future	standards or TB	ELs.	·		•		•	-	
N-ethyl Perfluoro-	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13

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Emerging Conta	aminan	nts Outfall 0	01												
	Units	Averaging Period	Existing Discharge Data			TBELs		Water Quality Data & WQBELs							
Effluent Parameter			Permit Limit	Existing Effluent Quality ¹⁰	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis	ML	Basis for Permit Requirement
octanesulfon- amide (NEtFOSA)	Monite	oring has bee	en added	to suppor	t establishmer	nt of future	standards or TB	ELs.							
N-methyl Perfluoro- octanesulfon-	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
amide (NMeFOSA)	Monite	oring has bee	en added	to suppor	t establishmer	nt of future	standards or TB	ELs.							
N-methyl Perfluoro- octanesulfon-	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
amidoethanol (NMeFOSE)	Monite	oring has bee	en added	to suppor	t establishmer	nt of future	standards or TB	ELs.							
N-ethyl Perfluoro-	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
octanesulfon- amidoethanol (NEtFOSE)	Monite	oring has bee	en added	to suppor	t establishmer	nt of future	standards or TB	ELs.							
9- Chlorohexadeca	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
-fluoro-3- oxanonane-1- sulfonic Acid (9CI-PF3ONS)	Monite	oring has bee	en added	to suppor	t establishmer	nt of future	standards or TB	ELs.							
Hexafluoro- propylene Oxide	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
Dimer Acid (HFPO-DA or GenX)	Monite	oring has bee	en added	to suppor	t establishmer	nt of future	standards or TB	ELs.							
11- Chloroeicosaflu	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13
oro-3- oxaundecane-1- sulfonic Acid (11CI- PF3OUdS)	Monite	oring has bee	en added	to suppor	t establishmer	nt of future	standards or TB	ELs.							
4,8-Dioxa-3H- perfluorononano	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13

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Emerging Conta	minan	ts Outfall 00)1													
Effluent Parameter		Averaging Period	Existing Discharge Data			TBELs		Water Quality Data & WQBELs								
	Units		Permit Limit	Existing Effluent Quality ¹⁰	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis	ML	Basis for Permit Requirement	
ic Acid (ADONA)	Monitoring has been added to support establishment of future standards or TBELs.															
3- Perfluoropropyl	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13	
Propanoic Acid (3:3 FTCA)	Monito	Monitoring has been added to support establishment of future standards or TBELs.														
2H,2H,3H,3H- Perfluoro-	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13	
octanoic Acid (5:3 FTCA)	Monitoring has been added to support establishment of future standards or TBELs.															
3- Perfluoroheptyl	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13	
Propanoic Acid (7:3 FTCA)																
Nonafluoro-3,6- dioxaheptanoic	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13	
	Monitoring has been added to support establishment of future standards or TBELs.															
Perfluoro-4- methoxy-	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13	
butanoic Acid (PFMBA)	Monito	oring has bee	en added	to support	establishmer	nt of future	standards or TB	ELs.								
Perfluoro-3- methoxy-	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13	
propanoic Acid (PFMPA)	cid Monitoring has been added to support establishment of future standards or TBELs.															
Perfluoro(2- ethoxyethane)su	ng/L	Daily Max	-	ND	0/3	-	-	-	-	-	-	-	-	-	Monitor 750-1.13	
Ifonic Acid (PFEESA)	Monito	oring has bee	en added	to support	establishmer	nt of future	standards or TB	ELs.								
1,4-Dioxane	µg/L	Daily Max	-	ND	0/3	-	-	-	ND	0.35	H(WS)	28	TOGS 1.1.1	-	No Limitation	
	There	is no calcula	ated reaso	onable pot	ential to excee	ed the WQ	BEL and, therefo	ore, no effl	uent limits c	r monitori	ng are being	g required for	1,4-dioxan	ə.		

Appendix: Regulatory and Technical Basis of Permit Authorizations

The Appendix is meant to supplement the fact sheet 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
 - o 40 CFR, Chapter I, subchapters D, N, and O
 - State environmental regulations
 - o 6 NYCRR Part 621
 - o 6 NYCRR Part 750
 - o 6 NYCRR Parts 700 704 Best use and other requirements applicable to water classes
 - o 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 fact sheet:

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(I)
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 <u>NYS 303(d) List of Impaired/TMDL Waters</u> 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 waste load allocation (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 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, <u>Technical Support Document for Water Quality-based Toxics Control</u>, 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 <u>Pollutant Summary Table</u> 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, 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(*I*) 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 fact sheet. Consistent with current case law¹¹ and USEPA interpretation¹² 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.

 ¹¹ American Iron and Steel Institute v. Environmental Protection Agency, 115 F.3d 979, 993 n.6 (D.C. Cir. 1997)
 ¹² 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)
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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 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 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 <u>USEPA Effluent Limitation Guideline Calculations</u> 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 DEC 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.

Technology-based Effluent Limitations (TBELs)

CWA sections 301(b)(1)(B) and 304(d)(1), 40 CFR 133.102, ECL section 17-0509, and 6 NYCRR 750-1.11 require technology-based controls, known as secondary treatment. These and other requirements are summarized in TOGS 1.3.3. Where the TBEL is more stringent than the WQBEL, the TBEL is applied as a limit in accordance with TOGS 1.3.3. Equivalent secondary treatment, as defined in 40 CFR 133.105, allow for effluent limitations of the more stringent of the consistently achievable concentrations or monthly/weekly averages of 45/65 mg/L, and the minimum monthly average of at least 65% removal. Consistently achievable concentrations are defined in 40 CFR 133.101(f) as the 95th percentile value for the 30-day (monthly) average effluent quality achieved by the facility in a period of two years. The achievable 7-day (weekly) average value is equal to 1.5 times the 30-day average value calculated

above. Equivalent secondary treatment applies to those facilities where the principal treatment process is either a trickling filter or a waste stabilization pond; the treatment works provides significant biological treatment of municipal wastewater; and, the effluent concentrations consistently achievable through proper operation and maintenance of the facility cannot meet traditional secondary treatment requirements. There are no federal technology-based standards for toxic pollutants from POTWs. A statistical analysis of existing effluent data, as described in TOGS 1.2.1, may be used to establish other performance-based TBELs.

Technology-based Effluent Limitations (TBELS) for Discharges to Groundwater

TBELS aim to prevent pollution by requiring a minimum level of effluent quality that is attainable using demonstrated technologies for reducing discharges of pollutants or pollution into the waters of the United States. ECL section 17-0509, and 6 NYCRR 750-1.11 require technology-based controls for POTWs discharging to surface waters, known as secondary treatment. The applicable regulations are specified in 40 CFR 133.102 and 6 NYCRR 750-1.11. These and other requirements are summarized in TOGS 1.3.3 and below:

- Secondary treatment requirements of 40 CFR Part 133 will typically not be included unless the facility discharges to a surface water prior to entering the groundwater or if, in the permit writer's judgement, limitations are necessary to prevent nuisance conditions or enhance plant operation.
- Since nitrogen is a component of all domestic wastewater, permits for facilities discharging 30,000 GPD or greater include effluent limitations for Nitrate of 20 mg/L (as N). Groundwater discharges in Nassau and Suffolk Counties are required to achieve an effluent standard for Total Nitrogen of 10 mg/L (as N).
- Disinfection will typically not be required for discharges to groundwater unless local public health concerns exist due to exposure or contact with effluent. When this occurs, disinfection requirements and effluent limitations for chlorine residual are developed in accordance with TOGS 1.3.3.

Technology-based Effluent Limitations (TBELS) for Industrial Facilities to Groundwater

TBELS aim to prevent pollution by requiring a minimum level of effluent quality that is attainable using demonstrated technologies for reducing discharges of pollutants or pollution into the waters of the United States. Requirements for discharges from industrial facilities to groundwater are summarized in TOGS 1.2.1. In accordance with TOGS 1.2.1, for facilities discharging to groundwater:

- Discharges will typically be limited to the more stringent of the groundwater effluent standards in 6 NYCRR 703.6 or the applicable treatment technology listed in TOGS 1.2.1 Attachment (C).
- Discharges from industrial facilities which contain nitrogen or nitrogen compounds include effluent limitations for Nitrate of 20 mg/L (as N). Groundwater discharges in Nassau and Suffolk Counties are required to achieve an effluent standard for Total Nitrogen of 10 mg/L (as N).
- Disinfection will typically not be required for discharges to groundwater unless local public health concerns exist due to exposure or contact with effluent.

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. Additionally, 6 NYCRR Part 701.1 prohibits the discharge of pollutants that will cause impairment of the best usages of the receiving water as specified by the water classifications at the location of discharge and at other locations that may be affected by such discharge. 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 at the point of discharge and in downstream waters 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 DEC 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 DEC 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 aguatic 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 DEC;

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 DEC 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 DEC 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.

The Division of Water has been using the TMDL approach in permit limit development for the control of toxic substances. Since the early 1980's, the loading capacity for specific pollutants has been determined for each drainage basin. Water quality-limiting segments and pollutants have been identified, TMDLs, wasteload allocations and load allocations have been developed, and permits with water quality-based effluent limits have been issued. In accordance with TOGS 1.3.1, the Division of Water implements a Toxics Reduction Strategy which is committed to the application of the TMDL process using numeric, pollutant-specific water quality standards through the Watershed Approach. The Watershed Approach accounts for the cumulative effect of multiple discharges of conservative toxic pollutants to ensure water quality standards are met in downstream segments.

Water Quality-Based Effluent Limitations (WQBELs) for Discharges to Groundwater

The procedure for developing WQBELs includes identifying the pollutants present in the discharge(s), identifying water quality criteria applicable to these pollutants, determining if WQBELs are necessary (reasonable potential), and calculating the WQBELs. For groundwater discharges, if the expected concentration of the pollutant of concern in the receiving water may exceed the ambient groundwater quality standard or guidance value, then there is reasonable potential that the discharge may cause or contribute to a violation of the water quality, and a WQBEL for the pollutant is required.

WQBELs for groundwater discharges are based on the groundwater effluent limits set forth in 6 NYCRR Part 703 (Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations) except as noted in 6 NYCRR 702.21. TOGS 1.1.1 provides a listing of groundwater effluent limitations for substances having an ambient water quality standard or guidance value. Groundwater effluent limitations are applied at the point of discharge to the groundwater distribution system.

For land treatment systems with no accessible final sampling points, such as constructed wetland treatment systems or buried sand filters, permit limitations for groundwater discharges are typically based on ambient groundwater quality standards or guidance values applied at representative down gradient monitoring well(s). Limitations at the downgradient sampling point are set at the Class GA ambient groundwater standards, rather than at the groundwater effluent limits promulgated under 6 NYCRR 703.6, as compliance is determined based upon the concentrations present in the downgradient groundwater monitoring well at the groundwater interface.

Class GA standards are established for the protection of sources of drinking water designated as Health (Water Source) or H(WS) in TOGS 1.1.1. As such, effluent limitations based on aquatic life criteria and WET testing requirements are not applicable to groundwater discharges.

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.

Requirements for Combined Sewer Overflows (CSOs)

Pollution from combined sewer overflows is controlled with implementation of SPDES permit conditions in accordance with the Division of Water CSO Control strategy (TOGS 1.6.3) and the USEPA CSO Control Policy issued April 11, 1994.

CWA Section 402(q) requires that each permit for a discharge from a municipal combined storm and sanitary sewer shall conform to EPA's Combined Sewer Overflow Control Policy.^[1] The CSO Control Policy identifies specific requirements for Phase I and Phase II permits. Phase I permits must include requirements for the implementation of the Nine Minimum Controls (NMCs) and development of the Long-Term CSO Control Plan (LTCP).

^[1] Available at https://www.epa.gov/sites/production/files/2015-10/documents/owm0111.pdf PAGE 30 OF 32

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The 15 CSO Best Management Practices (BMPs) required by NYS under TOGS 1.6.2 are equivalent to the "Nine Minimum Control Measures" required under the USEPA National Combined Sewer Overflow policy (33 USC section 1342(q)). BMPs are technology-based requirements developed in accordance with best professional judgement. These are largely non-structural measures which are designed to maximize pollutant capture and removal from the combined sewer system and the POTW as a whole.

Phase II permits must include requirements to implement the technology-based controls including the NMCs determined on a BPJ basis, as well as requirements which ensure that the selected CSO controls are implemented, operated, and maintained as described in the long-term CSO control plan (LTCP). These requirements are critical to meeting the objectives of the Policy, including to bring all CSO discharge points into compliance with the technology-based and water quality-based requirements of the CWA, and to minimize the water quality, aquatic biota, and human health impacts from CSOs.

Additionally, the 1994 CSO Control Policy requires permits include a requirement for CSO communities who have developed an approved LTCP to reassess overflows to sensitive areas in those cases where elimination or relocation of the overflows is not physically possible and economically achievable. The reassessment should be based on consideration of new or improved techniques to eliminate or relocate overflows or changed circumstance that influence economic achievability.

Other Conditions

Mercury

The multiple discharge variance (MDV) for mercury was developed in accordance with 6 NYCRR 702.17(h) "to address widespread standard or guidance value attainment issues including the presence of a ubiquitous pollutant or naturally high levels of a pollutant in a watershed." The first MDV was issued in October 2010, and subsequently revised and reissued in 2015; each subsequent iteration of the MDV is designed to build off the previous version, to make reasonable progress towards the water quality standard (WQS) of 0.7 ng/L dissolved mercury. The MDV is necessary because human-caused conditions or sources of mercury prevent attainment of the WQS and cannot be remedied (i.e., mercury is ubiquitous in New York waters at levels above the WQS and compliance with a water quality based effluent limitation (WQBEL) for mercury cannot be achieved with demonstrated effluent treatment technologies). The DEC has determined that the MDV is consistent with the protection of public health, safety, and welfare. During the effective period of this MDV, any increased risks to human health are mitigated by fish consumption advisories issued periodically by the NYSDOH.

All surface water SPDES permittees are eligible for authorization by the MDV provided they meet the requirements specified in DOW 1.3.10.

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.

Pollutant Minimization Programs

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Pollutant Minimization Programs are included when a pollutant is being discharged from the facility at detectable levels and the ML for the most sensitive method is greater than the calculated WQBEL. These programs typically include an on-going potential source identification, evaluation, and prioritization program to demonstrate progress towards meeting the goal of the WQBEL. Pollutant Minimization Plan requirements are based on 40 CFR Part 132 Appendix F Procedure 8, 6 NYCRR 750-1.13(a) and 750-1.14(f), and TOGS 1.2.1.

Mini Industrial Pretreatment Program

Pretreatment requirements are intended to protect a WWTP from receiving pollutants that cause pass through or interference to the operations of the POTW receiving such wastes. When necessary, the DEC, in accordance with TOGS 1.3.3. and through issued SPDES permits, requires WWTPs to develop and implement mini or partial pretreatment programs. These requirements are consistent with regulations in 6 NYCRR §750-2.9(b)(1), ECL 17-0811, ECL 17-0825, and 40 CFR §403.5.

As part of the mini pretreatment program, a WWTP must identify industrial users; determine whether legal authority controls (e.g. sewer use laws) are adequate; require, issue, and enforce industrial user permits; and, implement the program.