New York State Department of Environmental Conservation

Division of Environmental Permits, 4th Floor

625 Broadway, Albany, NY 12233-1750 **Phone:** (518) 402-9167 • **Fax:** (518) 402-9168 **Website:** <u>www.dec.ny.gov</u>



Honorable Richard P. Miller Mayor, City of Oneonta City Hall 258 Main Street Oneonta, NY 13820 August 15, 2014

Re: Oneonta Wastewater Treatment Plant DEC#4-3646-00016/00001 SPDES#: NY0031151

Dear Mayor Miller:

Enclosed is a final modified and renewed State Pollutant Discharge Elimination System (SPDES) permit for the above referenced facility. This permit has been modified pursuant to 6 NYCRR Part 750-1.18. Comments were received from Ms. Michelle Josilo, USEPA, Region 2, on this modification and are addressed in the enclosed responsiveness summary.

Also enclosed is a sample Discharge Monitoring report (DMR) page listing the reporting requirements for the Chesapeake Bay related effluent monitoring data. The Department will be scheduling a webinar in the near future to go over this page and answer any questions that you may have regarding the Chesapeake Bay related reporting requirements. If you have any questions on reporting requirements, please contact either Robert Wither or Steve Vogler, Division of Water, Bureau of Water Compliance, at (518) 402-8177.

Please be advised, the Uniform Procedures Regulations (6 NYCRR Part 621) provide that an applicant may request a public hearing if a permit contains conditions which are unacceptable to them. Any such request must be made in writing within 30 calendar days of the date of permit issuance and must be addressed to the Permit Administrator at the letterhead address. A copy should also be sent to the Chief Administrative Law Judge at NYSDEC, 625 Broadway, 1st Floor, Albany, NY 12233-1550.

Should you have questions on the administration of this modification, please feel free to contact me at the address or phone number listed above. Should you have technical questions on permit content, please contact the permit engineer, Brian Baker, at (518) 402-8111, or the Regional Water Engineer, Andrea Dzierwa, at (518) 357-2377.

Sincerely

Teresa Diehsner Division of Environmental Permits

Enclosure

c:

B. Clarke, RPA
A. Dzierwa, RWE
B. Baker, Permit Engineer
C. Jamison, CO-BWP Permit Coordinator
N. Myers, NYSEFC
M. Josilo, EPA Reg 2
SRBC
NYSDOH District Office



Responsiveness Summary Oneonta Wastewater Treatment Plant SPDES NY0031151 DEC ID 4-3646-00016/00001 August 2014

Background: The department proposed to modify and renew the above referenced SPDES permit. The draft permit was public noticed on 11/6/2013 in the Environmental Notice Bulletin and in the Daily Star on 11/8/2013. Comments dated 12/5/2013 were received from Ms. Michelle Josilo, USEPA, Region 2, and are addressed below.

Comment: Mercury. TOGS 1.3.10 provides that the Multiple Discharger Variance (MDV) is in effect for "five years from the effective date specified on page 1 of this document". Page 1 indicates that the issue date (assuming this is the effective date as well) is October 2010; therefore the MDV is only in effect until September 2015. As the term of the draft Oneonta WWTP permit extends beyond the expiration date of the MDV, the permit must reflect a final water quality-based effluent limit of 0.7 ng/l as of September 2015 unless other relief is provided in the permit (e.g. compliance schedules, renewal of the MDV).

Response: NYSDEC's interpretation of the applicable regulations (40 CFR Part 132, Appendix F, Procedure 2 and 6 NYCRR Part 702.17) and policy (DOW 1.3.10, Section 4.2.1.11) is that the MDV may be applied from October 2010 thru September 2015 and that the "variance" actually happens when an individual permit is changed to include these requirements, i.e., if the MDV is applied to a permit prior to October 2015 then the resulting requirements may be in effect for the permit term which extends past October 2015. NYSDEC's interpretation appears to be consistent with practices in other States.

Comment: Pathogen Criteria Implementation. The Oneonta WWTP discharges to class B waters. As specified in the NYSWQS at 6 NYCRR Part 701.8, the best usage of class B fresh waters is primary and secondary contact recreation and fishing. These waters shall be suitable for fish, shellfish, and wildlife propagation and survival. The draft Oneonta WWTP permit establishes effluent limitations for fecal coliforms but does not establish limits for total coliforms... In order to comply with the NYSWQS and ensure that the best usages of the receiving water are not impaired, please conduct a reasonable potential analysis for total coliforms and, if necessary establish total coliforms effluent limitations in the Oneonta WWTP permit.

Response: Compliance with water quality standards for Total Coliforms is indicated by Fecal Coliforms limits. Additional limits for Total Coliforms are unnecessary, consistent with DEC's existing disinfection policy in TOGS 1.3.3. Parallel monitoring for total coliform would be redundant.

Comment: Sanitary Sewer Overflows. The draft Oneonta WWTP permit section "Sanitary Sewer Overflows Prohibited" should have bypass language that conforms to 40 CFR 122.41 (m). It could read as follows: "In accordance with 6 NYCRR Part 750-2.8(b)(2) and 40 CFR 122.41, bypass of the collection and treatment system is prohibited, and the Director may take enforcement action unless: (1) the bypass is necessary to prevent loss of life, personal injury, public health hazard or severe property damage; and, (2) there is no feasible alternative to the bypass; and, (3) the permittee complies with the notice requirements in 6 NYCRR Part 750-2.7. Bypassing from the following sanitary sewer overflow points in the Oneonta WWTP that are known to or have the potential to be bypass points is prohibited in accordance with the provision noted above:"

Response: The existing language shall remain in the permit. The Department's ability to enforce is captured within Part 750, which is already referenced several times in the permit.

Comment: Whole Effluent Toxicity. The draft Oneonta WWTP permit establishes action levels for whole effluent toxicity (WET) but there is no discussion of the reasonable potential analysis for WET provided in the fact sheet. With no reasonable potential analysis or discussion, it is not clear how the permit meets the requirements of 40 CFR §I 22.44(d)(i) or 40 CFR part 132 which specify that if the WET of an effluent is or

may be discharged at a level which will cause, have the reasonable potential to cause, or contribute to an excursion above any numeric WET criterion, an effluent limitation for WET must be established in the permit. Please provide a reasonable potential analysis for existing WET data or a justification for not establishing effluent limitations for WET.

Response: As part of the permit development process, the SPDES permit application and the facility's submitted data were evaluated using the most recent edition of Division of Water Technical and Operational Guidance Series (1.3.2), ACUTE AND CHRONIC TOXICITY TESTING IN THE SPDES PERMIT PROGRAM. This guidance document, which was reviewed and accepted by EPA, describes the procedures which should be followed when determining whether to include WET testing in a SPDES permit. The 2007 chronic test did indicate the effluent was chronically toxic. Quarterly testing once every five years is the recommended frequency. Initially, the permit should receive WET action levels (i.e. not limits). After a year's worth of testing (i.e four quarterly WET tests) is completed, we will complete the Reasonable Potential Determination (RPD) to determine if the WET action levels need to be elevated to enforceable WET limits. As a result, we believe in accordance with TOGS 1.3.2, the facility has received the appropriate WET program requirements with this initial WET Action Levels.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION State Pollutant Discharge Elimination System (SPDES) DISCHARGE PERMIT



Industrial Code:4952Discharge Class (CL):05Toxic Class (TX):TMajor Drainage Basin:06Sub Drainage Basin:01Water Index Number:SR (portion 7)Compact Area:SRBC

SPDES Number: DEC Number: Effective Date (EDP): Expiration Date (ExDP): Modification Dates: (EDPM) NY0031151 4-3646-00016/00001 09/01/2014 08/31/2019

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.)(hereinafter referred to as "the Act").

PERMITTEE NAME AND ADDRESS

Name: (City of Oneonta	Attention: Mayor, City of Oneonta
Street: (City Hall, 258 Main Street	그는 영향 그는 것은 것을 하는 것을 가지 않는 것을 하는 것을 하는 것을 했다.
City:	Oneonta	State: NY Zip Code: 13820
is authorize	ed to discharge from the facility described below:	
FACILIT	Y NAME AND ADDRESS	
Name:	Oneonta Wastewater Treatment Plant	
Location (C,T,V): Oneonta (C)	County: Otsego
Facility A	ddress: 11 Silas Lane	
City:	Oneonta	State: NY Zip Code: 13820
NYTM -E		NYTM - N: -

From Outfall No.: 001at Latitude: 42 °26 '18 "& Longitude:75 °06 '03 "into receiving waters known as:Susquehanna RiverClass: B

and (list other Outfalls, Receiving Waters & Water Classifications): see page two.

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.

DISCHARGE MONITORING REPORT (DMR) MAILING ADDRESS

Mailing Name: Oneonta Wastewater Treatment Plant

Street:	11 Silas Lane	
City:	Oneonta	State: NY Zip Code: 13820
Responsible	e Official or Agent: Steve Kruh, Chief Operator	Phone: 607-432-7210

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

CO BWP - Permit Coordinator	Deputy Chief Permit Administrator: Stuart M. Fox
RWE/RPA USEPA Region II - Michelle Josilo NYSEFC SRBC	Address: Division of Environmental Permits 625 Broadway, 4 th Floor Albany, NY 12233-1750
NYSDOH District Office	Signature: Atwart M. For Date: 8/15/14

First3.99

SPDES PERMIT NUMBER NY0031151 Page 2 of 18

SANITARY SEWER OVERFLOWS PROHIBITED

In accordance with 6 NYCRR Part 750-2.8(b)(2) and 40 CFR 122.41, bypass of the collection and treatment system without treatment are prohibited except when (1) the bypass is necessary to prevent loss of life, personal injury, public health hazard or severe property damage and (2) there is no feasible alternative to the bypass and (3) the permittee complies with the notice requirements in 6 NYCRR Part 750-2.7.

Bypassing from the following sanitary sewer overflow points in the Oneonta POTW that are known to or have the potential to be bypass points is prohibited except as noted above:

Outfall No.	Description	Latitude/Longitude (deg, min, sec)	Receiving Stream/Class
01A *	Head of plant bypass at flow > 5.0 mgd	42,26,23 N / 75,06,06 W	Susquehanna River / B thru 001
002 **	¹ / ₄ mile bypass- manual valve -near Interstate 88 Exit 13	42,26,34.9 N / 75,05,55.7 W	Susquehanna River / B

* When Outfall 01A discharges, daily sampling at Outfall 001 shall be taken for the following parameters as specified on the effluent limits pages four and five below: CBOD5, Ultimate Oxygen Demand, Dissolved Oxygen, Total Suspended Solids, Ammonia Total (as NH3), Total Kjeldahl Nitrogen, Total Nitrogen, Total Phosphorus, and Fecal Coliform. This sampling shall be combined with regular Outfall 001 monitoring for the Discharge Monitoring Reports.

** When Outfall 002 discharges, the following parameters shall be measured or estimated: flow rate, duration of discharge, and total volume of discharge.

SPDES PERMIT NUMBER NY0031151 Page 3 of 18

PERMIT LIMITS, LEVELS AND MONITORING DEFINITIONS

OUTFALL	WASTEWATER	R TYPE		RECEIV	ING WAT	FER		EFFECT	IVE	EX	PIRING
f	This cell describes the type of w or discharge. Examples includivastewater, storm water, non-c	le proces	ss or sanitary	This cell list waters of the the listed out	e state to v	which	star	e date this ts in effec P or EDP	t. (e.g.		e this page i er in effect. DP)
PARAMETER	MINIMUM		M	IAXIMUM		UN	ITS	SAMPI	E FREQ.	SAN	IPLE TYPE
e.g. pH, TRC, Temperature, D.C	The minimum level that m D. maintained at all instants i		The maximum be exceeded		-	SU, mg/l	, °F, l, etc.	See	below	S	ee below
PARAMETER	EFFLUENT LIMIT or CALCULATED LEVEL	COM	IPLIANCE LE	VEL/ ML	ACTIC LEVE	10123-00131-0013	U	NITS	SAM FREQU		SAMPLE TYPE
	Limit types are defined below in Note 1. The effluent limit is developed based on the more stringent of technology-based limits, required under the Clean Water Act, or New York State water quality standards. The limit has been derived based on existing assumptions and rules. These assumptions include receiving water hardness, pH and temperature; rates of this and other discharges to the receiving stream; etc. If assumptions or rules change the limit may, after due process and modification of this permit, change.	assessin use the method detection under 4 determic concern present otherwic result in of the r compli- for that Monito than th but sha compli- limit. T lowered	purposes of cc anent, the permit approved EPA I with the lower on limit as prore to CFR Part 130 ination of the trations of para in the sample ise specified. It is below the det nost sensitive r ance with the p parameter was ring results that is level must be II not be used t ance with the c this ML can be d nor raised wit	ttee shall analytical st possible nulgated o for the meters unless f a sample ection limit nethod, ermit limit achieved. t are lower e reported, o determine alculated neither thout a	Actio Levels monitor requirem as defin below Note which tri additio monitor and per review v exceed	are ring nents, ned in 2, igger nal ring rmit vhen	inclu of flo n temp conce Exa inclu	is can ide units ow, pH, nass, perature, or entration. amples ide μg/l, /d, etc.	Exam include 3/we 2/mo mont quarterl and year monito perio (quart semian annual, o based up calenda unlo other specifi this Pe	Daily, ek, dy, nth, hly, y, 2/yr ly. All oring ods erly, nuual, etc) are pon the ur year ess wise ted in	Examples include grab, 24 hour composite and 3 grab samples collected over a 6 hour period.

Notes:

1. EFFLUENT LIMIT TYPES:

- a. 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.
- b. DAILY MAX.: The highest allowable daily discharge. DAILY MIN.: The lowest allowable daily discharge.
- c. MONTHLY AVG: 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.
- d. 7 DAY ARITHMETIC MEAN (7 day average): The highest allowable average of daily discharges over a calendar week.
- e. 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.
- f. 7 DAY GEOMETRIC MEAN: The highest allowable geometric mean of daily discharges over a calendar week.
- g. RANGE: The minimum and maximum instantaneous measurements for the reporting period must remain between the two values shown.
- 2. ACTION LEVELS: Routine Action Level monitoring results, if not provided for on the Discharge Monitoring Report (DMR) form, shall be appended to the DMR for the period during which the sampling was conducted. If the additional monitoring requirement is triggered as noted below, the permittee shall undertake a short-term, high-intensity monitoring program for the parameter(s). Samples identical to those required for routine monitoring purposes shall be taken on each of at least three consecutive operating and discharging days and analyzed. Results shall be expressed in terms of both concentration and mass, and shall be submitted no later than the end of the third month following the month when the additional monitoring requirement was triggered. Results may be appended to the DMR or transmitted under separate cover to the same address. If levels higher than the Action Levels are confirmed, the permit may be reopened by the Department for consideration of revised Action Levels or effluent limits. The permittee is not authorized to discharge any of the listed parameters at levels which may cause or contribute to a violation of water quality standards.

SPDES PERMIT NUMBER NY0031151 Page 4 of 18

PERMIT LIMITS, LEVELS AND MONITORING

OUTFALL		LIMITATIONS APPI	LY:		RECEI	VING W	ATER	EFFECTIVE	EX	PIRIN	G
001	All Year			Su	isquehanna	River		09/01/2014	08/	31/201	19
Outfall		1	EFFLUEN	T LIMIT			MONITO	RING REQUIRE	EMEN	TS	FN
PARAM	ETER	Туре	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Loc Inf.	ation Eff.	FN
Flow		Monthly Average Daily Maximum	4.0 Monitor	MGD	-	-	Continuous	Recorder	X X		5
CBOD5		Monthly Average 7-Day Average	25 40	mg/l	830 1300	lbs/d	Weekly	24-hr. Comp.	X	X	
CBOD ₅ Percent H	Removal	Monthly Average	65	%	-	-	Weekly	Calculated			1
Solids, Total Sus	pended	Monthly Average 7-Day Average	30 45	mg/l	1000 1500	lbs/d	Weekly	24-hr. Comp.	x	۰X	
TSS Percent Rem	ioval	Monthly Average	77	%	-		Weekly	Calculated			1
Solids, Settleable		Monthly Average Daily Maximum	Monitor 0.3	ml/l	-	-	2/Day	Grab	X	x	
pН		Range	6.0 - 9.0	SU	-	-	2/Day	Grab	X	X	
Nitrogen, Total A NH3) JUN thru		Monthly Average Daily Maximum	11 Monitor	mg/l	Monitor Monitor	lbs/d	Weekly	24-hr. Comp.	x	X	2 2 2
Nitrogen, Total A NH3) NOV thru		Monthly Average Daily Maximum	19 Monitor	mg/l	Monitor Monitor	lbs/d	Weekly	24-hr. Comp.	x	X	
UOD JUN thru OCT		Monthly Average Daily Maximum	Monitor Monitor	mg/l	3000 Monitor	lbs/d	Weekly	Calculated		X	3
UOD NOV thru MAY		Monthly Average Daily Maximum	Monitor Monitor	mg/l	Monitor Monitor	lbs/d	Weekly	Calculated		x	3
Oxygen, Dissolve	ed	Daily Minimum	2.0	mg/l	monitor	lbs/d	Weekly	Grab	x	x	
Temperature		Monthly Average Daily Maximum	Monitor Monitor	Deg <u>F</u>	-	-	2/Day	Grab	x	x	
Copper, Total		Monthly Average Daily Maximum	Monitor 61	ug/l	Monitor 2.0	lbs/d	Once/ 2weeks	24-hr. Comp.	x	x	4
Lead, Total		Monthly Average Daily Maximum	Monitor 35	ug/l	Monitor 1.2	lbs/d	Once/ 2weeks	24-hr. Comp.	x	X	4
Mercury, Total		Monthly Average Daily Maximum	Monitor 50	ng/l	Monitor Monitor	lbs/d	Quarterly	24-hr. Comp.	X	X	4
Zinc, Total		Monthly Average Daily Maximum	Monitor 540	ug/l	Monitor 18	lbs/d	Once/ 2weeks	24-hr. Comp.	X	x	4
WET - Acute Inv	ertebrate	Action Level	1.6	TUa	•	-	Quarterly	See Footnote		X	6
WET – Acute Ve	rtebrate	Action Level	1.6	TUa	-	-	Quarterly	See Footnote		X	6
WET - Chronic I	nvertebrate	Action Level	9.8	TUc		-	Quarterly	See Footnote		x	6
WET – Chronic V	Vertebrate	Action Level	9.8	TUc	-	-	Quarterly	See Footnote		X	6
Effluent Disinfec	tion required				[X]	Seasonal	from APRIL 1	to <u>OCT 31</u>			
Coliform, Fecal		30-Day Geo Mean 7-Day Geo Mean	200 400	No./ 100 ml	-	-	Weekly	Grab		X	2
Chlorine, Total R	esidual	Monthly Average Daily Maximum	Monitor 49	ug/l		-	2/Day	Grab		X	2

Footnotes listed on page 5 of this permit.

SPECIAL CONDITIONS and DEFINITIONS:

The following special conditions and definitions apply to all activities regulated by this permit. A. <u>Composite Samples</u> - All 24 hour composite samples must be flow proportional.

FOOTNOTES:

- (1) Effluent shall not exceed <u>35</u>% and <u>23</u>% of influent concentration values for $CBOD_5$ & TSS respectively.
- (2) Samples shall be collected at the Effluent Chamber.
- (3) Ultimate Oxygen Demand shall be computed as follows: $UOD = 1.5 \times CBOD_5 + 4.5 \times TKN$ (Total Kjeldahl Nitrogen).
- (4) The following interim limits are in effect until 09/01/2017: Mercury Total limit of 200 ng/l daily maximum and once / 2 months sample frequency, Copper Total limit of 680 ug/l and 7.1 #/d daily maximum and weekly sample frequency, Lead Total limit of 170 ug/l and 5.7 #/d daily maximum and weekly sample frequency, and Zinc Total limit of 1000 ug/l and 18 #/d daily maximum and weekly sample frequency.
- (5) Influent flow shall be the sum of the flows from the main parshall flume and the head of plant bypass.
- (6) Whole Effluent Toxicity (WET) Testing:

<u>Testing Requirements</u> - WET testing shall consist of Chronic only. WET 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 Department. 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 bracketing the IWC and including one exposure group of 100% effluent should be used to generate a definitive test endpoint, otherwise an immediate rerun of the test is 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 5.4:1 for acute, and 9.8:1 for chronic. Discharges which are disinfected using chlorine should be dechlorinated prior to WET testing or samples shall be taken immediately prior to the chlorination system.

<u>Monitoring Period</u> - WET testing shall be performed at the specified sample frequency during calendar years ending in <u>0</u> and <u>5</u> for a period of one full year **beginning in January 2015**.

<u>Reporting</u> - Toxicity Units shall be calculated and reported on the DMR as follows: TUa = (100)/(48 hr LC50) or (100)/(48 hr LC50) (note that Acute data is generated by both Acute and Chronic testing) and TUc = (100)/(NOEC) when Chronic testing has been performed or $TUc = (TUa) \times (10)$ when only Acute testing has been performed and is used to predict Chronic test results, where the 48 hr LC50 or 48 hr EC50 and NOEC are expressed in % effluent. This must be done for both species and using the Most Sensitive Endpoint (MSE) or the lowest NOEC and corresponding highest TUc. Report a TUa of 0.3 if there is no statistically significant toxicity in 100% effluent as compared to control.

The complete test report including all corresponding results, 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 to the Toxicity Testing Unit Toxicity Testing Unit, Bureau of Watershed Assessment and Management, 625 Broadway, Fourth Floor, Albany, NY 12233-3502. A summary page of the test results for the invertebrate and vertebrate species indicating TUa, 48 hr LC50 or 48 hr EC50 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 Department 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 Reduction Evaluation (TRE) in accordance with Department guidance. If such additional testing or performance of a TRE is necessary, the permittee shall be notified in writing by the Regional Water Engineer. The written notification shall include the reason(s) why such testing or a TRE is required.

SPDES PERMIT NUMBER NY0031151 Page 6 of 18

> Chesapeake Bay TMDL Implementation - Water Quality Based Effluent Limits and Monitoring: PERMIT LIMITS, LEVELS AND MONITORING:

OUTFALL No.: 001	II and	CHESAPEAKE BAY NUTRIENT MONITORING - PHOSPHORUS	UN YAB	TRIENT MO	NITORINC	J- PHOSP	HORUS	EFFECTIVE : 0	09/01/2014	EXPIRIN	EXPIRING: 08/31/2019
		ENFORCEABLE	ABLE EFF	EFFLUENT LIMITATIONS	MITATION	S	MC	MONITORING REQUIREMENTS	DUIREMENT	S	
PARAMETER	l Misset		- 73						Location	tion	FN
	an she	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Inf.	Eff.	
Total Phosphorus, as P		Monthly average	Monitor	mg/l	Monitor	Ibs/day	1/week	24-hr comp	Х	Х	
Total Phosphorus, as P, month load	ad	Monthly Total	NA	NA	Monitor	Monitor Ibs/month	1/month	Calculated		Х	1 5
Total Phosphorus, as P, 12 month load 12 Month Total	1 load	12 Month Total	NA	mg/l	7,510	Ibs/year	1/month	Calculated		х	2,4
Total Phosphorus, as P, credit		12 Month Total	NA	mg/l	Monitor	Monitor Ibs/year	1/month	Calculated		x	3

FOOTNOTES FOR CHESAPEAKE BAY PHOSPHORUS WQ BASED EFFLUENT LIMITS AND MONITORING

- The Total Phosphorus, as P, Month Load is calculated as the Total Phosphorus, as P monthly average load multiplied by number of days in the month. ----
- added to the Total Phosphorus, as P month loads from the previous eleven months for your facility. The 12 month load effluent limit for The Total Phosphorus, as P, 12 month load [TP 12-ML] for your facility is defined as the current Total Phosphorus, as P month load Fotal Phosphorus, as P shall become effective 12 months after the effective date of the permit modification. 2
- The Total Phosphorus, as P, credit [TP credit] is calculated as [12 month load TP limit] [actual TP 12-ML]. Should the result of this calculation be zero or less than zero, the permittee shall report "0" for this parameter. 3.
- This is an interim Water Quality Based Effluent Limit based on the Waste Load Allocations in the TMDL. The final WQBEL of 6,080 lb/year shall become effective on January 1, 2025. 4.

Page 7 of 18 SPDES PERMIT NUMBER NY0031151

PERMIT LIMITS, LEVELS AND MONITORING:

OUTFALL No.:	001	CHESAPEAKE BAY NUTRIENT MONITORING - NITROGEN	AY NUTRIE	NOM THE	ITORING - N	NITROGEN	EFFECTIVE	EFFECTIVE : See Footnote 7 EXPIRING: 08/31/2019	EXP	IRING: (08/31/2019
		ENFOR	CEABLE EF	FLUENT	ENFORCEABLE EFFLUENT LIMITATIONS	NS	MONIT(MONITORING REQUIREMENTS	REMEN	TS	
PARAMETER									Location	tion	FN
		Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Inf.	Eff.	
Total Kjeldahl Nitrogen (TKN), as N), as N	Monthly average	Monitor	mg/l	Monitor	Ibs/day	1/week	24-hr comp	Х	Х	1
Nitrate (NO3), as N		Monthly average	Monitor	mg/l	Monitor	lbs/day	1/week	24-hr comp	Х	Х	1
Nitrite (NO2), as N		Monthly average	Monitor	mg/l	Monitor	lbs/day	1/week	24-hr comp	X	Х	
Total Nitrogen, as N		Monthly average	Monitor	mg/l	Monitor	Ibs/day	1/week	Calculated	Х	Х	I I
Total Nitrogen, as N, month load	ad	Monthly Total	NA	NA	Monitor	lbs/month	1/month	Calculated		Х	2
Total Nitrogen, as N, 12 month load	1 load	12 Month Total	NA	mg/l	Monitor	Ibs/year	1/month	Calculated		Х	3
Total Nitrogen, available from TP credit	TP credit	12 Month Total	NA	mg/l	Monitor	Ibs/year	1/month	Calculated		Х	4
Total Nitrogen, as N, Adjusted		12 Month Total	NA	mg/l	134,000	lbs/year	1/month	Calculated	1. A.M.	Х	5
Total Nitrogen, as N. Delivered	p	12 Month Total	NA	mg/l	Monitor	Ibs/year	1/month	Calculated		×	6,7

- Total Nitrogen, as N = [Total Kjeldahl Nitrogen (TKN), as N] + [Nitrite (NO₂), as N] + [Nitrate (NO₃), as N].
- Total Nitrogen, as N, Month Load is calculated as the monthly average Total Nitrogen, as N load multiplied by number of days in the month 3
- Total Nitrogen, as N, 12 month load [TN 12-ML] for your facility is defined as the current Total Nitrogen, as N, month load added to the Total Nitrogen, as N, month loads from the previous eleven months for your facility. 3.
- Phosphorus limits page and the [N:P ratio] for your facility is 6.13. Should the result of this calculation be zero or less than zero, the Total Nitrogen, available from TP credit [TNAP] is calculated as [TP credit] * [N:P ratio] where the TP credit is as reported on the permittee shall report "0" for this parameter. 4
- Total Nitrogen, as N, Adjusted [TNA 12-ML] is calculated as [TN 12-ML] [TNAP]. 5.
- Total Nitrogen Delivered, as N, 12-ML [TND 12-ML] is calculated as [TN 12-ML] * [Delivery Factor (DFn)] where DFn for the City of Oneonta = 0.356. 9.

Footnote 7 listed on page 8 of this permit.

SPDES PERMIT NUMBER NY0031151 Page 8 of 18

FOOTNOTES FOR CHESAPEAKE BAY NITROGEN WQ BASED EFFLUENT LIMITS AND MONITORING ctd. 7. Monitoring requirements for the parameters listed in this table shall begin on 09/01/2014. The calculated Phase II Total Nitrogen

become effective on January 1, 2016. The DA 12-ML is calculated by the Department as the sum of the TND 12-ML loadings for the Delivered, as N, Aggregate [DA 12-ML] limit of 976,000 lb/year and the Total Nitrogen, as N, Adjusted limit of 134,000 lb/year facilities included in each Phase. The facilities included in the Phase II Total Nitrogen Delivered, as N, Aggregate limit are:

			2	
Cortland (NY0027561)	Endicott (NY0027669)	Chemung Co. ESD (NY0035742)	Chemung Co. SD #1 (NY0036986)	Chobani (NY0004189)
Kraft Foods (NY0004308)	Painted Post (V) (NY0025712)	Richfield Springs (V) (NY0031411) Canisteo (V) STP (NY0023248)	Canisteo (V) STP (NY0023248)	Cooperstown (NY0023591)
Chenango Northgate WWTP (NY0213781)	NY0213781)	Owego (T) #1 (NY0022730)	Hamilton (V) (NY0020672)	Waverly (V) (NY0031089)
Alfred (V) (NY0022357)	Bath (V) (NY0021431)	Owego (V) (NY0029262)	Sidney (V) (NY0029271)	Erwin (T) (NY0023906)
Owego (T) #2 (NY0025798)	Norwich (NY0021423)	Corning (C) (NY0025721)	Hornell (C) (NY0023647)	Oneonta (C) (NY0031151)

The calculated Phase III Total Nitrogen Delivered, as N, Aggregate [DA 12-ML] limit is 1,069,000 lb/year and becomes effective on January 1, 2017. The DA 12-ML is calculated by the Department as the sum of the TND 12-ML loadings for the facilities included in

each Phase. The fa	cilities included in the Phase II	each Phase. The facilities included in the Phase III Total Nitrogen Delivered, as N, Aggregate limit are:	Aggregate limit are:	
Cortland (NY0027561)	Endicott (NY0027669)	Chemung Co. ESD (NY0035742)	Chemung Co. Sd #1 (NY0036986) Chobani (NY0004189)	Chobani (NY0004189)
Kraft Foods (NY0004308)	Painted Post (V) (NY0025712)	Richfield Springs (V) (NY0031411) Canisteo (V) STP (NY0023248)	Canisteo (V) STP (NY0023248)	Cooperstown (NY0023591)
Chenango Northgate WWTP (NY0213781)	NY0213781)	Owego (T) #1 (NY0022730)	Hamilton (V) (NY0020672)	Waverly (V) (NY0031089)
Alfred (V) (NY0022357)	Bath (V) (NY0021431)	Owego (V) (NY0029262)	Sidney (V) (NY0029271)	Erwin (T) (NY0023906)
Owego (T) #2 (NY0025798)	Norwich (NY0021423)	Corning (C) (NY0025721)	Hornell (C) (NY0023647)	Oneonta (C) (NY0031151)
Amphenol (NY0003824)	Leprino Foods (NY0157295)	Addison (V) (NY0020320)	Sherburne (V) (NY0021466)	Greene (V) (NY0021407)