NEW YORK STATE OF	Department of Environmental	State Pollutant Discharge Elimination System
	Conservation	(SPDES) DISCHARGE PERMIT

Industrial Code:	7699	SPDES Number:	NY 028 2511
Discharge Class (CL):	04	DEC Number:	4-0134-00209/00001
Toxic Class (TX):	Ν	Effective Date (EDP):	03/01/2019
Major Drainage Basin:	13	Expiration Date (ExDP):	02/28/2024
Sub Drainage Basin:	01	Modification Dates: (EDPM)	Mod 1: effective 08/01/2020
Water Index Number:	H-221-4-7		Mod 2: effective
Compact Area:			

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:	Town of New Scotland	Attention:	Highway Superintendent				
Street:	2029 New Scotland Road						
City:	Slingerlands	State:	NY	Zip Code:	12159		

is authorized to discharge from the facility described below:

FACILITY NAME AND ADDRESS																	
Name:	Town of Nev	own of New Scotland Highway Garage															
Location (C,T,V):	Town of Nev	w Scotland								County:	Alba	any					
Facility Address:	2869 New S	cotland Road	l														
City:	Voorheesvil	le				State: NY					Zip Code: 12186			6			
From Outfall No.:	001 at Latitude: 42 °				37	,	10	••	& Longit	ude:	-73	0	58	'	32	••	
into receiving waters known as: Unmapped Tributary of Vly Creek					Class	s:	С										

and (list other Outfalls, Receiving Waters & Water Classifications)

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:								
Street:								
City:				Zip Code:				
Responsible Official or Agent:			Phone:					

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 RWE RPA USEPA Region 2

Permit Administrator:			
Address:			
Signature:	Date:	/	/

PERMIT LIMITS, LEVELS AND MONITORING DEFINITIONS

OUTFALL	WASTEWATER TYPE				RECEIVING WATER				EFFECTIVE			EXPIRING	
		s cell describes the type of v			This cell lists classified				The date this page			The date this page is	
	for discharge. Examples include process or sanitary				waters of the state to which				starts in effect. (e.g.			no longer in effect.	
	wastewater, storm water, non-contact cooling water				the listed ou	tfall disch	arges.	ED	P or EDPI	M)	(e.g. Ex	DP)	
PARAMETE	R	MINIMUM		М	AXIMUM		UN	ITS	SAMPI	E FREQ	. SAN	IPLE TYPE	
e.g. pH, TRC, Temperature, D	0	The minimum level that m maintained at all instants i		The maximum be exceeded				, °F, , etc.	See	below	S	ee below	
Temperature, E	.0.	maintained at an instants i	li tillic.	be exceeded	at any mistant	in thic.	mg/1	, etc.					
PARAMETER		EFFLUENT LIMIT or	CO	MPLIANCE I	LEVEL /	ACTIO	DN	U	NITS	SAM	PLE	SAMPLE	
	(CALCULATED LEVEL	МΠ	NIMUM LEVI	EL (ML)	LEVE	EL			FREQU	ENCY	TYPE	
	Liı	nit types are defined		purposes of co		Actio			is can	Exam	ples	Examples	
		low in Note 1. The		ent, the permi		Levels are monitoring		include units of flow, pH,		include Daily,		include	
		luent limit is developed		approved EPA	•					3/we	,	grab, 24	
		sed on the more stringent	method with the lowest possible detection limit as promulgated under 40CFR Part 136 for the determination of the concentrations of parameters			requirements, as defined below in Note 2, which trigger		mass, temperature, or concentration. Examples		weekly, 2/month, monthly, quarterly, 2/yr and yearly. All		hour composite and 3 grab samples collected	
		technology-based limits,											
		uired under the Clean											
		ater Act, or New York ate water quality											
		ndards. The limit has		in the sample		additio	~~		ide μg/l,	monitoring		over a 6	
		en derived based on		se specified. If		monitor			/d, etc.	perio	\mathcal{O}	hour	
		isting assumptions and		below the det		and per	0	105/	u, etc.	(quart		period.	
		es. These assumptions	of the n	nost sensitive r	nethod,	review w				semiar		1	
	inc	lude receiving water	complia	nce with the p	ermit limit	exceed	ed.			annual	, etc.)		
hardness, pH and temperature; rates of this and		for that	parameter was	achieved.					are base	d upon			
		Monitor	ring results tha	t are lower					the cal	endar			
other discharges to the receiving stream; etc. If assumptions or rules change the limit may, after due				s level must be						year u			
				l not be used t						other			
				ince with the c						specifi			
				his Minimum 1	· · ·					this Pe	ermit.		
		ocess and modification of s permit, change.		neither lowered									
	uni	s permit, change.	without a modification of this										
	1		permit.	permit.									

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.
- c. DAILY MIN: The lowest allowable daily discharge.
- d. 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.
- e. 7 DAY ARITHMETIC MEAN (7 day average): The highest allowable average of daily discharges over a calendar week.
- f. 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.
- g. 7 DAY GEOMETRIC MEAN: The highest allowable geometric mean of daily discharges over a calendar week.
- h. 12 MONTH ROLLING AVERAGE: The current monthly value of a parameter, plus the sum of the monthly values over the previous 11 months for that parameter, divided by 12.
- i. 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.

PERMIT LIMITS, LEVELS AND MONITORING

OUTFALL		W	ASTEWATE	ATER TYPE RECEIVING				WATER		EFFECT	TIVE	EXPIF	RING	
001		Plain (no detergent) wash-water					Unmapped tributary of Vly Creek							
PARAMETER MINI		MUM	MAXIMUM	UNIT	S SAMPLE FREQUENCY				SAMPLE TYPE			FOOTNOTES (FN)		
рН		6.5		8.5	SU		1/Q	uarter		grab				
PARAMETER			NT LIMIT or TED LEVEL Daily Max	COMP LEVI				UNITS	SAMPLE FREQUENCY		SAMPLE TYPE		FN	
Flow				3,200					GPD	D	aily	Est	imate	(1)
Oil & Grease				15			mg/L		1/Q	uarter (irab		
Suspended Solids	, Total			40					mg/L	1/Q	uarter	C	irab	
Dissolved Solids,	Total			2,500	,500					1/Quarter		Grab		
Foam (visible)				None					Visible	1/Q	uarter	C	irab	(2)
Iron				5.0					mg/L	1/Q	uarter	C	irab	
Lead				0.06					mg/L	1/Q	uarter	C	irab	
Zinc			0.85					mg/L	1/Quarter		C	irab		
Benzene				1.0					ug/L	1/Quarter		Grab		
Toluene				5.0					ug/L	1/Q	uarter	C	irab	
Ethylbenzene			5.0					ug/L	1/Quarter		Grab			
Xylene				5.0					ug/L	1/Q	uarter	C	irab	

FOOTNOTES:

- (1) Flow shall be estimated based on water use. The flow rate at any given time shall not exceed 3 gpm.
- (2) Visible Foam Analytical Method Procedure:
 - a) Fill one (1) 500 mL narrow mouth bottle (glass or plastic) with effluent water to be tested.
 - b) Upon return to the lab, fill a 1000 mL Wheaton narrow mouth glass sample bottle to the 200mL mark with effluent from the 500mL bottle.
 - c) Place the bottle with 200 mL of sample in a constant temperature bath for a minimum of 1 hour and a maximum of 2 hours at $25 \pm 1^{\circ}$ C (77 $\pm 1.8^{\circ}$ F).
 - d) Measure the temperature of the sample and adjust to $25 \pm 1^{\circ}C (77 \pm 1.8^{\circ}F)$ if necessary.
 - e) Remove the sample from the constant temperature bath.
 - f) Vigorously shake the sample bottle using a minimum of an 8 inch stroke and 40 shakes in less than 10 seconds.
 - g) After completing 40 shakes, start a timer and allow the bottle to stand undisturbed.
 - h) If any foam remains after 60 seconds, the sample will be noted as containing visible foam. If no foam remains after 60 seconds the sample will be noted as not containing visible foam.

SCHEDULE OF SUBMITTALS

a) The permittee shall submit the following information to the Regional Water Engineer and NYSDOT at the addresses listed on the Recording, Reporting and Monitoring page of this Permit:

Outfall(s)	Parameter(s) Affected	Required Action	Due Date
001	MBAS as LAS (methylene blue active substances) as (linear alkylbenzene sulfonate)	The permittee shall collect quarterly samples representative of normal discharge conditions and treatment operations over a 1-year period, at least four (4) consecutive quarterly samples, for the identified parameter. The permittee shall use the approved EPA analytical method with the lowest possible detection limit as promulgated under 40CFR Part 136 for the determination of the concentrations of parameters listed. The permittee shall submit results of the analyses as part of the annual report.	EDPM (Mod 2) + 18 months

b) Unless noted otherwise, the above actions are-one time requirements. The permittee shall submit the results of the above actions to the satisfaction of the Department. When this permit is administratively renewed by NYSDEC letter entitled "SPDES NOTICE/RENEWAL APPLICATION/PERMIT", the permittee is not required to repeat the above submittal(s), unless noted otherwise. The above due dates are independent from the effective date of the permit stated in the letter of "SPDES NOTICE/RENEWAL APPLICATION/PERMIT."

SPECIAL CONDITIONS – PLAIN WATER WASH BAY

- 1. This system is not designed to treat soap or detergents. No soap or detergents should be used as part of vehicle washing at this facility.
- 2. The use of hot wash-water, steam, and/or detergents are prohibited.
- 3. Sign(s) shall be clearly displayed in the garage prohibiting the use of hot wash-water, steam, and/or detergents.
- 4. Sign(s) shall be clearly displayed prohibiting all vehicle maintenance activities in the plain water wash bay and prohibiting the disposal of anything other than plain wash-water through floordrain(s).

SPECIAL CONDITIONS – INDUSTRY BEST MANAGEMENT PRACTICES

- 1. <u>General</u> The permittee shall develop, maintain, and implement a Best Management Practices (BMP) plan to prevent releases of significant amounts of pollutants to the waters of the State through plant site runoff; spillage and leaks; sludge or waste disposal; and stormwater discharges including, but not limited to, drainage from raw material storage. The BMP plan shall be documented in narrative form and shall include the 13 minimum BMPs and any necessary plot plans, drawings, or maps. Other documents already prepared for the facility such as a Safety Manual or a Spill Prevention, Control and Countermeasure (SPCC) plan may be used as part of the plan and may be incorporated by reference. A copy of the current BMP plan shall be submitted to the Department as required in item (2.) below and a copy must be maintained at the facility and shall be available to authorized Department representatives upon request.
- 2. <u>Compliance Deadlines</u> The initial completed BMP plan shall be submitted within 6 months of EDPM to the Regional Water Engineer. The BMP plan shall be implemented within 6 months of submission, unless a different time frame is approved by the Department. The BMP plan <u>shall be reviewed annually</u> and shall be modified whenever (a) changes at the facility materially increase the potential for releases of pollutants; (b) actual releases indicate the plan is inadequate, or (c) a letter from the Department identifies inadequacies in the plan. The permittee shall certify in writing, as an attachment to the December Discharge Monitoring Report (DMR), that the annual review has been completed. All BMP plan revisions (with the exception of SWPPPs see item (5.) below) must be submitted to the Regional Water Engineer within 30 days. Note that the permittee is not required to obtain Department approval of the BMP plan (or of any SWPPPs) unless notified otherwise. Subsequent modifications to or renewal of this permit does not reset or revise these deadlines unless a new deadline is set explicitly by such permit modification or renewal.
- 3. Facility Review The permittee shall review all facility components or systems (including but not limited to material storage areas; in-plant transfer, process, and material handling areas; loading and unloading operations; storm water, erosion, and sediment control measures; process emergency control systems; and sludge and waste disposal areas) where materials or pollutants are used, manufactured, stored or handled to evaluate the potential for the release of pollutants to the waters of the State. In performing such an evaluation, the permittee shall consider such factors as the probability of equipment failure or improper operation, cross-contamination of storm water by process materials, settlement of facility air emissions, the effects of natural phenomena such as freezing temperatures and precipitation, fires, and the facility's history of spills and leaks. The relative toxicity of the pollutant shall be considered in determining the significance of potential releases. The review shall address all substances present at the facility that are identified in Tables 6-10 of SPDES application Form NY-2C (available at http://www.dec.ny.gov/docs/permits_ej_operations_pdf/form2c.pdf) or that are required to be monitored for by the SPDES permit.
- 4. <u>13 Minimum BMPs:</u> Whenever the potential for a release of pollutants to State waters is determined to be present, the permittee shall identify BMPs that have been established to prevent or minimize such potential releases. Where BMPs are inadequate or absent, appropriate BMPs shall be established. In selecting appropriate BMPs, the permittee shall consider good industry practices and, where appropriate, structural measures such as secondary containment and erosion/sediment control devices and practices. USEPA guidance for development of stormwater elements of the BMP is available in *Developing Your Stormwater Pollution Prevention Plan A Guide for Industrial Operators*, February 2009, EPA 833-B-09-002. As a minimum, the plan shall include the following BMPs:

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

5. Inspections and Records

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

SPECIAL CONDITIONS – INDUSTRY BEST MANAGEMENT PRACTICES (continued)

- Stormwater Pollution Prevention Plans (SWPPPs) Required for Discharges of Stormwater From Construction Activity to 5. Surface Waters - As part of BMP #11, a SWPPP shall be developed prior to the initiation of any site disturbance of one acre or more of uncontaminated area. Uncontaminated area means soils or groundwater which are free of contamination by any toxic or non-conventional pollutants identified in Tables 6-10 of SPDES application Form NY-2C. Disturbance of any size contaminated area(s) and the resulting discharge of contaminated stormwater is not authorized by this permit unless the discharge is under State or Federal oversight as part of a remedial program or after review by the Regional Water Engineer; nor is such discharge authorized by any SPDES general permit for stormwater discharges. SWPPPs are not required for discharges of stormwater from construction activity to groundwater. The SWPPP shall conform to the New York Standards and Specifications for Erosion and Sediment Control and New York State Stormwater Management Design Manual, unless a variance has been obtained from the Regional Water Engineer, and to any local requirements. The permittee shall submit a copy of the SWPPP and any amendments thereto to the local governing body and any other authorized agency having jurisdiction or regulatory control over the construction activity at least 30 days prior to soil disturbance. The SWPPP shall also be submitted to the Regional Water Engineer if contamination, as defined above, is involved and the permittee must obtain a determination of any SPDES permit modifications and/or additional treatment which may be required prior to soil disturbance. Otherwise, the SWPPP shall be submitted to the Department only upon request. When a SWPPP is required, a properly completed Notice of Intent (NOI) form shall be submitted (available at www.dec.ny.gov/chemical/43133.html) prior to soil disturbance. Note that submission of a NOI is required for informational purposes; the permittee is not eligible for and will not obtain coverage under any SPDES general permit for stormwater discharges, nor are any additional permit fees incurred. SWPPPs must be developed and submitted for subsequent site disturbances in accordance with the above requirements. The permittee is responsible for ensuring that the provisions of each SWPPP are properly implemented.
- <u>Facilities with Petroleum and/or Chemical Bulk Storage (PBS and CBS) Areas</u> Compliance must be maintained with all applicable regulations including those involving releases, registration, handling and storage (6NYCRR 595-599 and 612-614). Stormwater discharges from handling and storage areas should be eliminated where practical.

A. <u>Spill Cleanup</u> - All spilled or leaked substances must be removed from secondary containment systems as soon as practical and for CBS storage areas within 24 hours, unless written authorization is received from the Department. The containment system must be thoroughly cleaned to remove any residual contamination which could cause contamination of stormwater and the resulting discharge of pollutants to waters of the State. Following spill cleanup the affected area must be completely flushed with clean water three times and the water removed after each flushing for proper disposal in an on-site or off-site wastewater treatment plant designed to treat such water and permitted to discharge such wastewater. Alternately, the permittee may test the first batch of stormwater following the spill cleanup to determine discharge acceptability. If the water contains no pollutants it may be discharged. Otherwise it must be disposed of as noted above. See *Discharge Monitoring* below for the list of parameters to be sampled for.

B. <u>Discharge Operation</u> - Stormwater must be removed before it compromises the required containment system capacity. Each discharge may only proceed with the prior approval of the permittee staff person responsible for ensuring SPDES permit compliance. Bulk storage secondary containment drainage systems must be locked in a closed position except when the operator is in the process of draining accumulated stormwater. Transfer area secondary containment drainage systems must be locked in a closed position during all transfers and must not be reopened unless the transfer area is clean of contaminants. Stormwater discharges from secondary containment systems should be avoided during periods of precipitation. A logbook shall be maintained on site noting the date, time and personnel supervising each discharge.

C. <u>Discharge Screening</u> - Prior to each discharge from a secondary containment system the stormwater must be screened for contamination^{*}. All stormwater must be inspected for visible evidence of contamination. Additional screening methods shall be developed by the permittee as part of the overall BMP Plan, e.g. the use of volatile gas meters to detect the presence of gross levels of gasoline or volatile organic compounds. If the screening indicates contamination, the permittee must collect and analyze a representative sample^{**} of the stormwater. If the water contains no pollutants it may be discharged. Otherwise it must either be disposed of in an onsite or off site wastewater treatment plant designed to treat and permitted to discharge such wastewater or the Regional Water Engineer can be contacted to determine if it may be discharged without treatment.

D. <u>Discharge Monitoring</u> - Unless the discharge from any bulk storage containment system outlet is identified in the SPDES permit as an outfall with explicit effluent and monitoring requirements, the permittee shall monitor the outlet as follows:
(i) *Bulk Storage Secondary Containment Systems:*

(a) The volume of each discharge from each outlet must be monitored. Discharge volume may be calculated by measuring the depth of water within the containment area times the wetted area converted to gallons or by other suitable methods. A representative sample shall be collected of the first discharge^{*} following any cleaned up spill or

leak. The sample must be analyzed for pH, the substance(s) stored within the containment area and any other pollutants the permittee knows or has reason to believe are present^{**}.

(b) Every fourth discharge^{*} from each outlet must be sampled for pH, the substance(s) stored within the containment area and any other pollutants the permittee knows or has reason to believe are present^{**}.

(ii) Transfer Area Secondary Containment Systems:

The first discharge^{*} following any spill or leak must be sampled for flow, pH, the substance(s) transferred in that area and any other pollutants the permittee knows or has reason to believe are present^{**}.

E. <u>Discharge Reporting</u> - Any results of monitoring required above, excluding screening data, must be submitted to the Department by appending them to the corresponding DMR. Failure to perform the required discharge monitoring and reporting shall constitute a violation of the terms of the SPDES permit.

F. <u>Prohibited Discharges</u> - In all cases, any discharge which contains a visible sheen, foam, or odor, or may cause or contribute to a violation of water quality is prohibited. The following discharges are prohibited unless specifically authorized elsewhere in this SPDES permit: spills or leaks, tank bottoms, maintenance wastewaters, wash waters where detergents or other chemicals have been used, tank hydrotest and ballast waters, contained firefighting runoff, fire training water contaminated by contact with pollutants or containing foam or fire retardant additives, and unnecessary discharges of water or wastewater into secondary containment systems.

- * Discharge includes stormwater discharges and snow and ice removal. If applicable, a representative sample of snow and/or ice should be collected and allowed to melt prior to assessment.
- ** If the stored substance is gasoline or aviation fuel then sample for oil & grease, benzene, ethylbenzene, naphthalene, toluene and total xylenes (EPA method 602). If the stored substance is kerosene, diesel fuel, fuel oil, or lubricating oil then sample for oil & grease and polynuclear aromatic hydrocarbons (PAHs, EPA method 610). If the substance(s) are listed in Tables 6-8 of SPDES application form NY-2C then sampling is required. If the substance(s) are listed in NY-2C Tables 9-10 sampling for appropriate indicator parameters may be required, e.g. BOD5 or toxicity testing. Contact the facility inspector for further guidance. In all cases flow and pH monitoring is required.

DISCHARGE NOTIFICATION REQUIREMENTS

- (a) Except as provided in (c) and (g) of these Discharge Notification Act requirements, the permittee shall install and maintain identification signs at all outfalls to surface waters listed in this permit. Such signs shall be installed before initiation of any discharge.
- (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) For each discharge required to have a sign in accordance with a), the permittee shall, concurrent with the installation of the sign, provide a repository of copies of the Discharge Monitoring Reports (DMRs), as required by the RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS page of this permit. This repository shall be open to the public, at a minimum, during normal daytime business hours. The repository may be at the business office repository of the permittee or at an off-premises location of its choice (such location shall be the village, town, city or county clerk's office, the local library or other location as approved by the Department). In accordance with the RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS page of your permit, each DMR shall be maintained 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.

DISCHARGE NOTIFICATION REQUIREMENTS (continued)

- (g) All requirements of the Discharge Notification Act, including public repository requirements, are waived for any outfall meeting any of the following circumstances, provided Department notification is made in accordance with (h) below:
 - (i) such sign would be inconsistent with any other state or federal statute;
 - (ii) the Discharge Notification Requirements contained herein would require that such sign could only be located in an area that is damaged by ice or flooding due to a one-year storm or storms of less severity;
 - (iii) instances in which the outfall to the receiving water is located on private or government property which is restricted to the public through fencing, patrolling, or other control mechanisms. Property which is posted only, without additional control mechanisms, does not qualify for this provision;
 - (iv) instances where the outfall pipe or channel discharges to another outfall pipe or channel, before discharge to a receiving water; or
 - (v) instances in which the discharge from the outfall is located in the receiving water, two-hundred or more feet from the shoreline of the receiving water.
- (h) If the permittee believes that any outfall which discharges wastewater from the permitted facility meets any of the waiver criteria listed in (g) above, notification (form enclosed) must be made to the Department's Bureau of Water Permits, 625 Broadway, Albany, N.Y. 12233-3505, of such fact, and, provided there is no objection by the Department, a sign and DMR repository for the involved outfall(s) are not required. This notification must include the facility's name, address, telephone number, contact, permit number, outfall number(s), and reason why such outfall(s) is waived from the requirements of discharge notification. The Department may evaluate the applicability of a waiver at any time, and take appropriate measures to assure that the ECL and associated regulations are complied with.

MONITORING LOCATIONS

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



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 for non-POTWs
 - 2. Anticipated noncompliance
 - 3. Transfers
 - 4. Monitoring reports
 - 5. Compliance schedules
 - 6. 24-hour reporting
 - 7. Other noncompliance
 - 8. Other information

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

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

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

6NYCRR 750-2.5, 2.6, 2.7, &1.17 6NYCRR 750-2.7(a) 6NYCRR 750-1.17 6NYCRR 750-2.5(e) 6NYCRR 750-2.5(c) 6NYCRR 750-2.7(c) & (d) 6NYCRR 750-2.7(e) 6NYCRR 750-2.1(f)

RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS

The monitoring information required by this permit shall be summarized, signed and retained for a period of at least five years Α. from the date of the sampling for subsequent inspection by the Department or its designated agent. Also, monitoring information required by this permit shall be summarized and reported by submitting; (if box is checked) completed and signed Discharge Monitoring Report (DMR) forms for each ____ month reporting period to the locations specified below. Blank forms are available at the Department's Albany office listed below. The first reporting period begins on the effective date of this permit and the reports will be due no later than the 28th day of the month following the end of each reporting period. X (if box is checked) an annual report to the Regional Water Engineer and DOT at the addresses specified below. The annual report is due by February 1 each year and must summarize information for January to December of the previous year in a format acceptable to the Department. (if box is checked) a monthly "Wastewater Facility Operation Report..." (form 92-15-7) to the: Regional Water Engineer and/or County Health Department or Environmental Control Agency specified below Send reports to: Department of Environmental Conservation **Resident Engineer** NYSDOT Transportation Maintenance Regional Water Engineer, Region 4 1130 North Westcott Road 16 Maple Road

Phone: (518) 357-2045

Schenectady, New York 12306-2014

Phone: (518) 765-2841

Voorheesville, NY 12186

- B. Monitoring and analysis shall be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
- C. 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.
- D. Calculations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.
- E. 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.
- F. 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 Town of New Scotland Town of New Scotland Highway Garage NY 0282511



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Summary of Permit Changes

A State Pollutant Discharge Elimination System (SPDES) department-initiated permit modification has been drafted for the Town of New Scotland Highway Garage. The changes to the permit are summarized below:

- Removed schedule of compliance items for Zinc
- Updated Total Dissolved Solids (TDS), Zinc, Iron, and Lead daily maximum values to account for the dilution factor of 5:1.

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

Administrative History

- 3/1/2019 The new SPDES permit became effective with a new five-year term and expiration date of 2/28/2024.
- 8/1/2020 Permit was modified to include: Raising the Zinc effluent limit to an amount that allows the use of the New Salem Water District water without treatment; removing language requiring the water supply to be on-site well water; confirm stream's continuous flow; and extend the dates for the sampling, BPM plan, and any other requirements of the SPDES Permit beginning with the modified Permit date.
- 9/25/2020 The Town of New Scotland submitted a timely and sufficient NY-2C permit application.
- 3/23/2022 The Town of New Scotland submitted an NY-2C application in accordance with the Schedule of Compliance to request increased dilution ratio

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

Facility Information

This facility is a commercial facility that receives flow from the premises, with effluent consisting of vehicle wash water.

The current 3,200 GPD treatment system consists solely of an oil/water separator. The primary outfall (Outfall 001) is a 6-inch PVC pipe that daylights on the eastern side of the property. The effluent then travels approximately 20 feet due east on a concrete swale until it reaches NYS Route 85. The discharge then travels north, approximately 700 feet down NYS Route 85 along the shoulder to a catch basin. The catch basin then discharges to an unmapped tributary of the Vly Creek.

The facility does not have any planned improvements.

Site Overview

The Town of New Scotland's Highway Garage is located at 2869 New Scotland Road, Voorheesville, NY 12186. The highway garage maintains and washes the vehicles in the highway department's fleet of approximately 18 trucks. The floor drains from the facility are funneled into

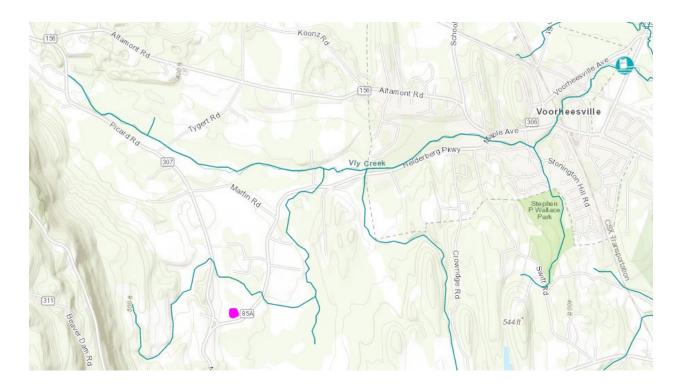
an eight-inch cast iron pipe, passed through a 1,000-gallon Oil/Water separator before discharging from outfall 001.

Receiving Water Information

The facility discharges via the following outfalls:

Outfall No.	SIC Code	Wastewater Type	Receiving Water
001		Plain (no detergent) wash- water	Unmapped Tributary of Vly Creek, Class C

Reach Description: The facility is marked on the map below directly off State Highway 85A. The stream then travels west through the Hamlet of New Salem and Village of Voorheesville. After reaching the Village of Voorheesville the stream passes an Aquatic Biological Monitoring station.



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

Impaired Waterbody Information

The Tributary of Vly Creek segment (PWL No. 1311-0021) is not listed on the 2018 <u>New York</u> <u>State Section 303(d) List</u> of Impaired/TMDL Waters, and therefore, there are no applicable wasteload allocations (WLAs) for this discharge.

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

None of the seven criteria that are indicative of potential toxicity are applicable to this facility; therefore, WET testing is not included in the permit. <u>Appendix Link</u>

Anti-backsliding

The following effluent limitations are subject to an antibacksliding determination. <u>Appendix Link</u> In this modification, the permit limits for Total Dissolved Solids (TDS), Zinc, Iron, and Lead daily maximum values were increased to account for the dilution factor of 5:1. This change does not denote backsliding. Per TOGS 1.2.1 Section 4.(ii), if the DEC receives new information that supports a less stringent limitation and which was not available at the permit issuance, the DEC may modify permit limits already in effect to be less stringent. In this instance, as required in the previous SPDES permit, a study was conducted on the receiving water body. The study found that the receiving body is not an intermittent stream and dilution should be accounted for. After review of the study, WQBEL limits were adjusted to account for dilution accordingly.

Antidegradation

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

¹ As prescribed by 6 NYCRR Part 617

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OUTFALL AND RECEIVING WATER SUMMARY TABLE

T			Longitude	Receiving Water Name	Water Class	Water Index No. / Priority Waterbody Listing (PWL) No.	Major / Sub Basin	Hardness (mg/l)	1Q10 (MGD)	7Q10 (MGD)	30Q10 (MGD)	Critical Effluent Flow (GPD)	Dilution Ratio		
Outfa	Outfall	ll Latitude											A(A)	A(C)	HEW
	001	42° 37' 10" N	73° 58' 32" W	Unmapped Tributary to Vly Creek	С	H-221	4 / 7	231 ²	-	-	-	3,200	-	-	-

Effluent Parameter	Exis	Existing Effluent Quality-EEQ*				Technology Based Effluent Limits-TBELs				Water Quality Data & WQBELs			
(concentration in ug/l and mass in lbs/day unless otherwise specified)	concentration		Mass (lbs/d)					PQL	Ambient Criteria	WQBEL			(T or WQ or NA)
	Avg/Max	95%/99 %	Avg/Max	95%/99 %	conc.	mass	Туре	conc.	conc.	conc.	mass	Туре	
Flow Rate, units = MGD	Average	0.0004	Maximum	0.0032				NA	7Q10 =	, 30Q10 =	, Dilution/Mi	xing = 5:1	
TDS (mg/L)	260								500	2,500		DM	WQ
Iron (mg/L)	0.485								1.0-C	5.0		DM	WQ
Lead (mg/L)	0.007								0.0048-C	0.032		DM	WQ
Zinc (mg/L)	0.279								0.10-C	0.5		DM	WQ

Existing Effluent Quality based on effluent sample results on 11/1/16 whose source was Bethlehem municipal water. Subsequent sample results determined ND for Lead.*

Appendix: Regulatory and Technical Basis of Permit Authorizations

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

Regulatory References

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

- Clean Water Act (CWA) 33 section USC 1251 to 1387
- Environmental Conservation Law (ECL) Articles 17 and 70
- Federal Regulations
 - 40 CFR, Chapter I, subchapters D, N, and O
 - State environmental regulations
 - 6 NYCRR Part 621
 - 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 factsheet:

SPDES Permit Requirements	Regulatory Reference
Anti-backsliding	6 NYCRR 750-1.10(c)
Best Management Practices (BMPS) for CSOs	6 NYCRR 750-2.8(a)(2)
Environmental Benefits Permit Strategy (EBPS)	6 NYCRR 750-1.18, NYS ECL 17-0817(4), TOGS 1.2.2 (revised January 25,2012)
Exceptions for Type I SSO Outfalls (bypass)	6 NYCRR 750-2.8(b)(2), 40 CFR 122.41
Mercury Multiple Discharge Variance	Division of Water Program Policy 1.3.10 (DOW 1.3.10)
Mixing Zone and Critical Water Information	TOGS 1.3.1 & Amendments
PCB Minimization Program	40 CFR Part 132 Appendix F Procedure 8, 6 NYCRR 750-1.13(a) and 750-1.14(f), and TOGS 1.2.1
Pollutant Minimization Program (PMP)	6 NYCRR 750-1.13(a), 750-1.14(f), TOGS 1.2.1
Schedules of Compliance	6 NYCRR 750-1.14
Sewage Pollution Right to Know (SPRTK)	NYS ECL 17-0826-a, 6 NYCRR 750-2.7
State Administrative Procedure Act (SAPA)	State Administrative Procedure Act Section 401(2), 6 NYCRR 621.11(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 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

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

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, and/or in response to updated regulatory requirements. Pollutant monitoring data is also reviewed to determine the presence of additional contaminants that should be included in the permit based on a reasonable potential analysis to cause or contribute to a water quality standards violation.

Anti-backsliding

Anti-backsliding requirements are specified in the CWA sections 402(o) and 303(d)(4), ECL 17-0809, and regulations at 40 CFR 122.44(*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 factsheet. Consistent with current case law³ and USEPA interpretation⁴ 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.

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

³ American Iron and Steel Institute v. Environmental Protection Agency, 115 F.3d 979, 993 n.6 (D.C. Cir. 1997)
 ⁴ 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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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)

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.

Water Quality-Based Effluent Limitations (WQBELs)

In addition to the TBELs, permits must include additional or more stringent effluent limitations and conditions, including those necessary to protect water quality. CWA sections 101 and 301(b)(1)(C), 40 CFR 122.44(d)(1), and 6 NYCRR Parts 750-1.11 require that permits include limitations for all pollutants or parameters which are or may be discharged at a level which may cause or contribute to an exceedance of any State water quality standard adopted pursuant to NYS ECL 17-0301. Water quality standards can be found under 6 NYCRR Parts 700-704. The limitations must be stringent enough to ensure that water quality standards are met and must be consistent with any applicable WLA which may be in effect through a TMDL for the receiving water. These and other requirements are summarized in TOGS 1.1.1, 1.3.1, 1.3.2, 1.3.5 and 1.3.6. The Department considers a mixing zone analysis, critical flows, and reasonable potential analysis when developing a WQBEL.

Mixing Zone Analyses

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

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

Critical Flows

In accordance with TOGS 1.2.1 and 1.3.1, WQBELs are developed using dilution ratios that relate the critical low flow condition of the receiving waterbody to the critical effluent flow. The critical low flow condition used in the dilution ratio will be different depending on whether the limitations are for aquatic or human health protection. For chronic aquatic protection, the critical low flow condition of the waterbody is typically represented by the 7Q10 flow and is calculated as the lowest average flow over a 7-day consecutive period within 10 years. For acute aquatic protection, the critical low flow condition is typically represented by the 1Q10 and is calculated as the lowest 1-day flow within 10 years. However, NYSDEC considers using 50% of the 7Q10 to be equivalent to the 1Q10 flow. For the protection of human health, the critical low flow condition is typically represented as the lowest average flow over a 30-day consecutive period within 10 years 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

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the dilution ratio. The critical effluent flow can be the maximum daily flow reported on the permit application, the maximum of the monthly average flows from discharge monitoring reports for the past three years, or the facility design flow. When more than one applicable standard exists for aquatic or human health protection for a specific pollutant, a reasonable potential analysis is conducted for each applicable standard and corresponding critical flow to ensure effluent limitations are sufficiently stringent to ensure all applicable water quality standards are met as required by 40 CFR 122.44(d)(1)(i). For brevity, the pollutant summary table reports the results of the most conservative scenario.

Reasonable Potential Analysis (RPA)

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

1) identify the pollutants present in the discharge(s) based upon existing data, sampling data collected by the permittee as part of the permit application or a short-term high intensity monitoring program, or data gathered by the Department;

2) identify water quality criteria applicable to these pollutants;

3) determine if WQBELs are necessary (i.e. reasonable potential analysis (RPA)). The RPA will utilize the procedure outlined in Chapter 3.3.2 of EPA's Technical Support Document (TSD). As outlined in the TSD, for parameters with limited effluent data the RPA may include multipliers to account for effluent variability; and,

4) calculate WQBELs (if necessary). Factors considered in calculating WQBELs include available dilution of effluent in the receiving water, receiving water chemistry, and other pollutant sources.

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

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

A Watershed Maximum Daily Load (WMDL) may be developed by the Department to account for the cumulative effect of multiple discharges of conservative toxic pollutants to ensure water quality standards are met in downstream segments. The WMDL uses a simple dilution model, assuming full mix in the receiving stream, to calculate the maximum allowable pollutant load that can be discharged and still meet water quality standards during critical low flow in downstream segments such as those with sensitive receptors (e.g. public water supply) or higher water classification. WQBELs are established to ensure that the cumulative mass load from point source discharges does not exceed the maximum allowable load to ensure permit limits are protective of water quality. Permittee: Town of New Scotland Facility: Town of New Scotland Highway Garage SPDES Number: NY 0282511 USEPA Non-Major/Class 04 Industrial Date: September 7, 2023 v.1.11 Permit Writer: Kyle LaFond Water Quality Reviewer: NA

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.