pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PAS238302**
Facility Type	**Storm Water**	APS ID	**1053204**
Major / Minor	**Minor**	Authorization ID	**1378948**

NPDES PERMIT FACT SHEET INDIVIDUAL INDUSTRIAL WASTE (IW) AND IW STORMWATER

Applicant and Facility Information

Applicant Name	**Matheson Tri Gas Inc.**	Facility Name	**Matheson Tri Gas St. Marys**
Applicant Address	1700 Scepter Road	Facility Address	203 West Creek Road
	Waverly, TN 37185-3253		Saint Marys, PA 15857-3373
Applicant Contact	James Murphree	Facility Contact	Mark Gunter (Plant Manager)
Applicant Phone	(931) 296-8151	Facility Phone	(814) 781-6990
Client ID	292473	Site ID	504007
SIC Code	2813	Municipality	Saint Marys City
SIC Description	Manufacturing - Industrial Gases	County	Elk
Date Application Received	December 15, 2021	EPA Waived?	Yes
Date Application Accepted	December 19, 2022	If No, Reason	

Purpose of Application: Renewal of an NPDES Permit for an existing discharge of Industrial Stormwater.

Summary of Review

This industrial facility manufactures oxygen, nitrogen, and argon via air separation and hydrogen via electrolytic process that splits water into hydrogen and oxygen.

This facility does not qualify for PAG-03 General Stormwater Permit because the discharge is to a high-quality designated watershed.

The NPDES application lists two SIC codes: 2813 (Ind. Inorganic Chemicals) & 4231 (Motor Freight Trans. & Warehousing). Only the first code was identified in the previous application. SIC Code 2813 falls under Appendix F and SIC Code 4231 falls under Appendix L of the PAG-03 permit.

Since no new or increased discharges are being proposed to the HQ-Watershed for this renewal, an anti-degradation analysis was not required.

There are currently no open violations listed in EFACTS for this permittee (4/10/2023).

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Approve	Deny	Signatures	Date
X		Adam J. Pesek Adam J. Pesek, E.I.T. / Project Manager	April 20, 2023
X		Chad W. Yurisic Chad W. Yurisic, P.E. / Environmental Engineer Manager	4/24/2023

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0
Latitude	41º 27' 11"	Longitude	-78º 32' 38"
Quad Name	Saint Marys	Quad Code	03091
Wastewater Description:	Stormwater Associated with Industrial Activity.		
Receiving Waters	Unnamed Tributary to West Creek (HQ-CWF)	Stream Code	25332
NHD Com ID	61429612	RMI	---
Drainage Area	0.31	Yield (cfs/mi^2)	---
Q_{7-10} Flow (cfs)	0	Q_{7-10} Basis	Drainage ditch/intermittent stream
Elevation (ft)		Slope (ft/ft)	
Watershed No.	8-A	Chapter 93 Class.	HQ-CWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status	Final	Name	West Creek

Background/Ambient Data		Data Source
pH (SU)	7.0	Default
Temperature (°C)	20	Default (CWF)
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake		Point of discharge to the high-quality stream	
PWS Waters	UNT to West Creek	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Changes Since Last Permit Issuance:

Other Comments:

Compliance History	
Summary of Inspections:	Last site inspection was conducted on 6/05/2019. The inspection report noted that a very slight sheen in sheet flow from tank/scrap area located near the maintenance garage doors was visible. The inspector recommended disposing of metal/grease properly and deploying absorbents to capture residual.

Other Comments:

Compliance History

DMR Data for Outfall 001 (from March 1, 2022 to February 28, 2023)

Parameter	FEB-23	JAN-23	DEC-22	NOV-22	OCT-22	SEP-22	AUG-22	JUL-22	JUN-22	MAY-22	APR-22	MAR-22
pH (S.U.) Minimum			6.9						8.30			
pH (S.U.) Maximum			6.9						8.58			
COD (mg/L) Average Monthly			34.2						12.8			
TSS (mg/L) Average Monthly			30						604			
Oil and Grease (mg/L) Average Monthly			< 5.0						< 5.0			
Nitrate-Nitrite (mg/L) Average Monthly			0.57						0.37			
Total Phosphorus (mg/L) Average Monthly			< 0.10						0.66			
Total Aluminum (mg/L) Average Monthly			0.56						3.72			
Total Iron (mg/L) Average Monthly			2.01						47.1			
Total Lead (mg/L) Average Monthly			< 0.02						0.02			
Total Zinc (mg/L) Average Monthly			0.06						0.34			

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0
Latitude 41º 27' 11.00" **Longitude** -78º 32' 38.00"
Wastewater Description: Stormwater associated with industrial activities

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Comments: N/A

Water Quality-Based Limitations

Comments: No modeling is performed for stormwater 'only' discharge evaluations.

Best Professional Judgment (BPJ) Limitations

Comments: In accordance with the Departments SOP entitled "Establishing Effluent Limits for Individual Industrial Permits," the Department's Monitoring requirements and benchmark values from the PAG-03 General Permit Appendix F and L, which was reissued on December 24, 2022, will be placed in the proposed permit. These requirements are listed below:

pH (S.U.)	1 / 6 months	Grab	9.0
Chemical Oxygen Demand (COD) (mg/L)	1 / 6 months	Grab	120
Total Suspended Solids (TSS) (mg/L)	1 / 6 months	Grab	100
Total Nitrogen (mg/L)	1 / 6 months	Calculation	XXX
Total Phosphorus (mg/L)	1 / 6 months	Grab	XXX
Oil and Grease (mg/L)	1 / 6 months	Grab	30
Nitrate + Nitrite-Nitrogen (mg/L)	1 / 6 months	Grab	3.0
Total Lead (mg/l)	1 / 6 months	Grab	XXX
Total Zinc (mg/l)	1 / 6 months	Grab	XXX
Total Iron (mg/l)	1 / 6 months	Grab	XXX
Total Aluminum (mg/l)	1 / 6 months	Grab	XXX

Because the discharge is to a high-quality designated watershed, the trigger point for initiating a corrective action plan is one exceedance of a benchmark value listed above, instead of two consecutive exceedances as found in the PAG-03 General Permit. Stormwater requirements including the benchmark values and corrective action plan requirements can be found in Part C.I – IV of the NPDES Permit.

Anti-Backsliding

N/A

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: Outfall 001 (prior to mixing with any other waters).

Other Comments: