Pennsylvania Department of Environmental Protection

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0222151**
Facility Type	**Industrial**	APS ID	**1074304**
Major / Minor	**Minor**	Authorization ID	**1415232**

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

Applicant and Facility Information

Applicant Name	**American Refinery Group Inc.**	Facility Name	**American Refinery Group Bradford**
Applicant Address	77 N Kendall Avenue	Facility Address	77 N Kendall Avenue
	Bradford, PA 16701-1726		Bradford, PA 16701-1726
Applicant Contact	Jason Goodling	Facility Contact	
Applicant Phone	(814) 368-1223	Facility Phone	
Client ID	116303	Site ID	250835
SIC Code	2911	Municipality	Bradford City
SIC Description	Manufacturing - Petroleum Refining	County	McKean
Date Application Received	October 17, 2022	EPA Waived?	Yes
Date Application Accepted		If No, Reason	

Purpose of Application: NPDES Renewal

Summary of Review

1.0 General Discussion

American Refinery Group Inc (ARG) submitted the application for renewal of NPDES Permit No. PA0222151 for discharge of remediation activities consisting of groundwater pumping and treatment related to historic contamination in a petroleum refinery. During operation, groundwater is pumped from vertical and horizontal remediation wells located within the refinery and treated in an oil/water separator, oxidation tank, and dissolved air floatation unit prior to discharge. The permit application indicated ARG has neither operated the Groundwater Treatment Plant (GWTP), nor discharged effluent related to this NPDES Permit since September 2019 and ARG has no immediate plans to resume operation of the GWTP but would like to renew the NPDES Permit as a contingency plan for groundwater treatment. The existing NPDES permit was issued on April 09, 2018, with an effective date of May 1, 2018, and expiration date of April 30, 2023. The applicant submitted a timely permit renewal application to the Department and is currently operating under the terms and conditions in the existing permit under administrative extension provision pending Department action on the renewal application. A topographic map showing the discharge location is presented in attachment A.

1.1 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		*J. Pascal Kwedza* J. Pascal Kwedza, P.E. / Environmental Engineer	September 24, 2025
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	September 24, 2025

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.1018
Latitude	41º 58' 04"	Longitude	78º 37' 33"
Quad Name	Bradford	Quad Code	0316
Wastewater Description:	Treated remediated groundwater		
Receiving Waters	Tunungwant Creek (WWF)	Stream Code	56932
NHD Com ID	112365935	RMI	2.28
Drainage Area	101.315	Yield (cfs/mi^2)	0.131
Q_{7-10} Flow (cfs)	13.272265	Q_{7-10} Basis	USGS# 03015500 (1/74 – 9/04)
Elevation (ft)	1420	Slope (ft/ft)	
Watershed No.	16-C	Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	Cause Unknown, Cause Unknown, Cause Unknown, Mercury		
Source(s) of Impairment	Channelization, Industrial Point Source, Removal of Vegetation, Source Unknown		
TMDL Status		Name	

Background/Ambient Data		Data Source
pH (SU)	8.1	USGS#03010956/030958 (’04-’17)(June-Sept.) Median
Temperature (°C)	20.8	USGS#03010956/030958 (’04-’17)(June-Sept.) Median
Hardness (mg/L)	77.6	USGS#03010956/030958 (’04-’17)(June-Sept.) 90th %
Other: Lead (mg/l)	1	USGS#03010956/030958 (June-Sept.) Median & 90th %

Nearest Downstream Public Water Supply Intake		PA/NY Line	
PWS Waters	Tunungwant Creek	Flow at Intake (cfs)	
PWS RMI	0	Distance from Outfall (mi)	2.28

Changes Since Last Permit Issuance: None

Other Comments: The receiving waterbody is impaired, but no action is warranted at this time since the facility is not contributing significantly to the impairment.

2.0 Treatment Facility Summary

Treatment Facility Name: American Refining Group - Groundwater Cleanup

WQM Permit No.	Issuance Date
4201201 T-2	1/05/2011

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Industrial	Chemical (Industrial Waste)	Coagulation	No Disinfection	0.1728

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.1728			None	Landfill

Changes Since Last Permit Issuance: None

2.1 Treatment System

Treatment consists of an API oil/water separator, pH adjustment, chemical addition, flocculation tank, DAF unit, polishing filter, sludge thickening tank, and plate filter press.

3.0 Existing Effluent Limitations and Monitoring Requirements

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	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0 Daily Max	XXX	Continuous	Measured
Oil and Grease	Report	XXX	XXX	15.0	XXX	30	2/month	Grab
Total Iron	Report	Report Daily Max	XXX	3.5	7.0 Daily Max	8.8	2/month	Grab

3.1 Compliance History

The facility has been offline since September 2019. There is no recent operational data to review.

4.0 Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .1728
Latitude 41º 58' 4.00" **Longitude** -78º 37' 33.00"
Wastewater Description: Groundwater Cleanup Discharge

4.1 Technology-Based Limitations

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

Parameter	Limit (mg/l)	SBC	Federal Regulation	State Regulation
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Oil and Grease	15	Average Monthly		95.2(2)(ii)
Oil and Grease	30	IMAX		95.2(2)(ii)
Dissolved Iron	7.0	IMAX	-	95.2(4)

Comments: Dissolved Iron limit was not included in the previous permit and will not be included for the current permit based on the reason given in the previous factsheet. See section 4.3 for details.

4.2 Water Quality-Based Limitations

No water quality analysis was conducted during this current renewal since there is no current data available to conduct A "Reasonable Potential Analysis". Effluent sampling was deemed unnecessary since the facility is not operating.

4.3 Best Professional Judgment (BPJ) Limitations

The existing total iron limit of 3.5 mg/l is based on past studies that determined local stream characteristics/discharge characteristics had caused iron staining to occur and will be retained. The existing permit factsheet indicated that the technology-based effluent limit for dissolved iron was not included in the permit because the total daily maximum total iron limit was as stringent and old DMRs and application data for total iron shows it is being effectively removed to very low concentrations.

4.5 Chemical Additives

The following chemical additives had been used in the past and may be used again in the future if the facility start discharging in the future. NaOH for pH Adjustment (max usage rate 60 lbs/day), BPW 76011 Coagulant (max usage rate100 lbs/day), Spectrafloc 875 Flocculant (max usage rate 10 lbs/day), Polyfloc AE1702 Flocculant (max usage rate 5 lbs). The permit is written with chemical additive usage and notification requirement.

5.0 Other Considerations

5.1 Anti-backsliding

Not applicable to this permit

5.2 Anti-Degradation (93.4)

The effluent limits for this discharge have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected. The facility discharge to a stream segment designated as High-Quality Waters. The discharge is not expected to impact the stream negatively. No Exceptional Value Waters are impacted by this discharge.

5.3 Class A Wild Trout Fisheries

The limits have been developed for protection of Class A Wild Trout Fisheries.

6.0 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" (386-0400-001), 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	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0 Daily Max	XXX	Continuous	Measured
Oil and Grease	Report	XXX	XXX	15.0	XXX	30.0	2/month	Grab
Total Iron	Report	Report Daily Max	XXX	3.5	7.0 Daily Max	8.8	2/month	Grab

Compliance Sampling Location: At Outfall 001

Attachment

A. Topographical Map