Pennsylvania Department of Environmental Protection

Northeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0053813**
Facility Type	**Industrial**	APS ID	**657625**
Major / Minor	**Minor**	Authorization ID	**1320145**

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

Applicant and Facility Information

Applicant Name	**Buckeye Terminals, LLC**	Facility Name	**Macungie BETZM Terminal (1, 2 & 3)**
Applicant Address	5002 Buckeye Road Emmaus, PA 18049	Facility Address	5285 Shipper Road Macungie, PA 18062
Applicant Contact	Nathan Pratt	Facility Contact	Mitchell Learn
Applicant Phone	(484) 523-1616	Facility Phone	(800) 727-3085
Client ID	265837	Site ID	580207
SIC Code	4226,5171	Municipality	Lower Macungie Township
SIC Description	Trans. & Utilities - Special Warehousing and Storage, NEC, Wholesale Trade - Petroleum Bulk Stations and Terminals	County	Lehigh
Date Application Received	July 7, 2020	EPA Waived?	Yes
Date Application Accepted	July 7, 2020	If No, Reason	-
Purpose of Application	Renewal of NPDES permit.		

Summary of Review

The applicant is requesting renewal of an NPDES permit to discharge stormwater from petroleum bulk storage tank dike areas and hydrostatic test water from existing petroleum tanks and pipelines to Tributary 3580 to Swabia Creek, a high-quality cold water and migratory fish (HQ-CWF, MF) receiving stream in State Water Plan Basin 02-C (Lower Lehigh River). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than the designated use.

The renewal application indicates the facility operates under SIC Code 4226 (Special Warehousing and Storage, NEC). In the previous renewal it was determined that requirements for SIC Code 5171 (Petroleum Bulk Stations and Terminals) also apply to this facility. This decision was based on the bulk petroleum tanks, the pipeline receipt of gasoline and distillate products, the rail spur for unloading ethanol, propane, and butane, and the loading racks for truck transportation. Hydrostatic test discharges from the facility were previously described as infrequent. eDMR results were reviewed from the last permit effective date (January 1, 2016) until the present. The results indicate this facility has not discharged hydrostatic test water during that timeframe.

Oil/water separators treat site stormwater discharged from the three terminals and are located near the three internal monitoring point (IMP) locations. A 6,000-gallon separator is located near IMP 101, a 1,000-gallon separator is located near IMP 201 and an 8,000-gallon separator is located near IMP 103. The renewal application indicates the maximum hydrostatic test discharge flows are approximately 0.576 MGD.

Outfall 001 is located on the western side of the site and discharges to an unnamed tributary to Swabia Creek (stream code 3580). Flows from IMP 101 and stormwater from the Terminal 1 location are directed to the detention pond at Outfall 001. IMP 101 is monitored at the tank dike discharge location.

Approve	Deny	Signatures	Date
X		Brian Burden, E.I.T. / Project Manager	December 27, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager	12-30-24

Summary of Review

Outfall 002 is located on the northwestern area of the site and discharges to the same unnamed tributary. Flows from IMPs 102 & 103 and stormwater from Terminals 2 & 3 are directed to the detention pond at Outfall 002.

Note: The permit renewal application didn't include IMP 103 as a monitoring location. Clarification was requested and the permittee's consultant stated: *"The renewal application consolidates IMP 103 into IMP 102. Outfall 001 (IMP 101) monitors hydrostatic test discharges from Tank Dike 1 area, while Outfall 002 (IMP 102) now includes flows previously monitored at IMP 103, covering Tank Dike 2 and Tank Dike 3 areas."*

Since the process / stormwater flow diagram submitted with the renewal application shows flows from IMPs 102 & 103 combining at a location after they are sampled, IMP 103 will remain in this renewal.

The monitoring requirements and limitations in the table below are from the latest PAG-10 general permit and are included in this renewal for the hydrostatic test discharges. Each parameter is to be sampled twice per discharge.

Parameter	Effluent Limitations		
	Minimum	Average Monthly	Instant. Maximum
Flow (GPM) [4]	XXX	Report	XXX
Duration of Discharge (Hours) [4]	XXX	Report	XXX
Total Volume Discharged (Gallons) [4]	XXX	Report Total Monthly	XXX
Dissolved Oxygen (mg/L)	5.0	XXX	XXX
pH (S.U.)	6.0	XXX	9.0
Total Residual Chlorine (TRC) (mg/L) [5]	XXX	Report	0.05
Total Suspended Solids (TSS) (mg/L)	XXX	30	60
Oil and Grease (mg/L)	XXX	15	30
Dissolved Iron (mg/L)	XXX	XXX	7.0
Benzene (mg/L) [6]	XXX	XXX	0.0025
BTEX (mg/L) [6],[7]	XXX	XXX	0.25
Total PCBs (µg/L) [8]	XXX	Report	Report

In addition to the parameters above, the requirement to report Toluene and Total Xylenes concentrations are carried over in this renewal for IMPs 101, 102 & 103.

The following monitoring requirements and limitations were included in the previous renewal for Outfalls 001 & 002 and are carried over in this renewal:

Parameter	Effluent Limitations					
	Mass Units (lbs/day) [1]		Concentrations (mg/L)			
	Average Monthly		Minimum	Average	Daily Maximum	Instant. Maximum
pH (S.U.)	XXX	XXX	Report	XXX	XXX	Report
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX
Oil and Grease	XXX	XXX	XXX	15	30 Max	XXX
TRPH	XXX	XXX	XXX	15	30 Max	XXX
Total Kjeldahl Nitrogen	XXX	XXX	XXX	XXX	Report	XXX
Total Iron	XXX	XXX	XXX	XXX	Report	XXX

Summary of Review

Activities under SIC codes 4226 & 5171 fall under Appendix L monitoring requirements of the latest PAG-03 general permit. Requirements for TSS and Oil & Grease are included in Appendix L and are already monitored in the previously issued permit and therefore included in this renewal. Requirements to monitor/report Total Nitrogen and Total Phosphorus are included in Appendix L and are added to this renewal for Outfalls 001 & 002. The reporting requirements for pH, TKN and Total Iron as well as the limitations for TRPH above are carried over in this renewal for both outfalls. All parameters are to be sampled on a semi-annual basis.

The Part A table notes from the previous renewal are carried over in this renewal. All Part C special conditions from the previously issued permit are carried over in this renewal, including:

- Part C.I. – Other Requirements (subparts A, B, C, & D)
- Part C.II – Requirements Applicable to Stormwater Outfalls
- Part C.III – Petroleum Bulk Stations and Terminals

The template Part C.IV (PFAS Reduction Plan) and Part C.V (BMPs to Address Aqueous Film Forming Foam) special conditions are added to this renewal as per current guidance.

There is no DRBC discharge docket for this facility.

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.

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001, 002 (stormwater discharge) 101, 102, 103 (hydrostatic discharge)	Design Flow (MGD)	Zero (001, 002) 0.576 (101, 102, 103)
Latitude	40° 31' 12.40" (001) 40° 31' 17.00" (002) 40° 31' 10.00" (101) 40° 31' 16.00" (102) 40° 31' 17.00" (103)	Longitude	75° 32' 24.74" (001) 75° 32' 25.65" (002) 75° 32' 17.00" (101) 75° 32' 19.00" (102) 75° 32' 10.00" (103)
Quad Name	Allentown West	Quad Code	1441 (6.21.2)
Wastewater Description:	Stormwater associated with industrial operations (001, 002) Hydrostatic test discharge (101, 102, 103)		
Receiving Waters	Unnamed Tributary #03580 to Swabia Creek	Stream Code	3580
NHD Com ID	26295669	RMI	0.7200 (001) 0.6200 (002) 0.7200 (101) 0.6200 (102) 0.6200 (103)
Drainage Area	~1 square mile	Yield (cfs/mi^2)	0.1
Q_{7-10} Flow (cfs)	0.1	Q_{7-10} Basis	See below
Elevation (ft)	400 - 410 Feet	Slope (ft/ft)	-
Watershed No.	2-C	Chapter 93 Class.	HQ-CWF, MF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired		
Cause(s) of Impairment	Pathogens		
Source(s) of Impairment	Source Unknown		
TMDL Status	Pending	Name	

Background/Ambient Data: NA		Data Source: NA
pH (SU)	-	-
Temperature (°F)	-	-
Hardness (mg/L)	-	-
Other:	-	-

Nearest Downstream Public Water Supply Intake		LCA Allentown City Water System ID# 101757-002	
PWS Waters	Little Lehigh Creek	Flow at Intake (cfs)	-
PWS RMI	-	Distance from Outfall (mi)	~10.5