

Application Type Renewal  
Facility Type Industrial  
Major / Minor Minor

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

Application No. PA0070084  
APS ID 604223  
Authorization ID 1181363

**Applicant and Facility Information**

Applicant Name	<u>Buckeye Terminal LLC</u>	Facility Name	<u>Buckeye Macungie Terminal (AKA BET Terminal AKA BETZG)</u>
Applicant Address	<u>3186 Gates Road Auburn, NY 13021</u>	Facility Address	<u>Macungie Terminal 5198 Buckeye Road Emmaus, PA 18049</u>
Applicant Contact	<u>Nathan Pratt</u>	Facility Contact	<u>Steven Wright</u>
Applicant Phone	<u>(484) 523-1616</u>	Facility Phone	<u>(610) 904-4103</u>
Client ID	<u>241053</u>	Site ID	<u>517</u>
SIC Code	<u>4226,5171</u>	Municipality	<u>Lower Macungie Township</u>
SIC Description	<u>Trans. &amp; Utilities - Special Warehousing And Storage, Nec, Wholesale Trade - Petroleum Bulk Stations And Terminals</u>	County	<u>Lehigh</u>
Date Application Received	<u>May 5, 2017</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>July 10, 2017</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>RENEWAL OF EXISTING NPDES PERMIT.</u>		

**Summary of Review**

This application is for renewal of an existing NPDES permit to discharge treated storm water and periodic hydrostatic test water discharges to the Unnamed Trib 03580 of Swabia Creek which is a HQ-CWF (High quality - Cold water fishes).

**This permit is being issued as Individual IW Stormwater Permit due to nature of discharges to HQ stream (stormwater and hydrostatic test discharges only). No other wastewater was identified in the permit application. Previous permit was for IW (Minor without ELG) with Petroleum Marketing Terminals conditions. Central Office will be notified of the facility reclassification (for Chapter 92a fee purposes) upon final NPDES Permit Action.**

**Background:** This is a petroleum transportation terminal (gasoline, diesel, ethanol)/ "bulk fuel storage and refueling facility) with nine (9) Above-ground Storage Tanks and two USTs (oil/water separator UST and "steel slop oil collection UST) per facility PPC Plan. Buckeye Terminals, LLC operates the facility. Buckeye Pipe Line Company LC owns the facility.

- **Adjacent Land Uses:** Facility is co-located with other permitted Petroleum storage tank facilities/Terminals under other NPDES Permits (including Buckeye Pipe Lines Co. NPDES# PA0055174 which has outfalls upstream and downstream of this facility's permitted outfalls).
- **Outfall 001:** Receives stormwater discharges from retention pond (with valve) receiving stormwater from a covered Loading Rack Area (three bays with oil/water separator), Ethanol unloading area, and driveway. Stormwater often is allowed to evaporate. Residuals are either disposed or recycled. Area estimated at ~58,300 square feet (54% impervious). Manual discharge via valves.
- **Outfall 002:** Receives stormwater discharges from a secondary containment area (tank dike) that includes Tanks Nos. 101, 102, 201, and 401). Area estimated at ~136,530 square feet (100% impervious). Manual discharge via valves.

Approve	Deny	Signatures	Date
X		James D. Berger, P.E. / Environmental Engineer	October 7, 2019
X		Amy M. Bellanca, P.E. / Environmental Engineer Manager	

### Summary of Review

- **Outfall 012 (a.k.a. Outfall 002A in application):** This Outfall is for hydrostatic testing and it is the same physical location as 002 (discharging from the tank dike). It is capable of a max flow rate of 0.576 MGD when discharging. Application estimated a maximum 0.392 GPD discharge (i.e. no 24 hour discharge planned) based on experience with other facilities. **NOTE:** EDMR and available facilities files do not document a hydrostatic discharge since 2012.
- **Secondary Containment Area II:** The application mentions another Tank No. 224 co-located with Buckeye Pipeline Co. Tank No. 226 (secondary containment area not connected to the Terminal and is owned/operated by Buckeye Pipe Line Company, LP per PPC Plan Section 2.1 and capacity calculations). The PPC Plan drawings show this area is physically separated without an outfall permitted under this NPDES Permit. The Buckeye Pipe Lines Co. NPDES# PA0055174's 2016 PPC Plan Figure "Mechanical ERAP – Site Drainage Plan Diagram Macungie Station" No. ZGSP0004) shows this containment area as part of the drainage area for that facility's Outfall No. 001.
- **Other DEP Permits/Authorizations per Application:**
  - Title V Permit 39-00028
  - Storage Tank Registration 39-26431 (E-facts Site# 647156). **NOTE:** The Storage Tank registration uses different tank identification numbers than used in the NPDES Permit Application. See PPC Plan Waste Inventory table for both Tank identification numbers).

**Part C Special Conditions:** Previous permit had standard IW condition (solids disposal), Petroleum Marketing Terminal Conditions, Hydrostatic Testing, PPC Plan Condition, and a descriptive (outfall) condition. **Now updating to current IW Stormwater NPDES Permit conditions (allowing for hydrostatic test discharges) plus some retained Petroleum Marketing Terminal-based conditions.**

- **Part C.I:** Standard stormwater outfalls and authorized non-stormwater discharges conditions modified to cross-reference hydrostatic discharge requirements for Outfall No. 012.
- **Part C.II:** Standard Best Management Practices (BMPs) for stormwater conditions
- **Part C.III:** Standard Routine Inspections conditions
- **Part C.IV:** Standard Preparedness, Prevention and Contingency (PPC) Plan conditions
- **Part C.V:** Standard Stormwater Monitoring Requirements
- **Part C.VI:** Standard Other Requirements (Necessary property rights; residuals management)
- **Part C.VII:** Additional Requirements (Petroleum Marketing Terminals/Bulk Fuel Storage and Refueling Facilities) permit conditions (definitions and pollution prevention plan). Previous permit had equivalent conditions.

### 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 Nos.	001 (stormwater only) 002 (stormwater only) 012 (hydrostatic test discharge only)	Design Flow (MGD)	0 (001 and 002) 0.576 MGD (012)
Latitude	40° 30' 59.21" (001) 40° 30' 57.38" (002) 40° 30' 57.38" (012)	Longitude	-75° 32' 15.58" (001) -75° 32' 14.71" (002) -75° 32' 14.71" (012)
Quad Name	Allentown West	Quad Code	1441
Wastewater Description:	Stormwater associated with industrial activities (001 and 002) Hydrostatic Test Discharge (012)		
Receiving Waters	Unnamed Tributary to Swabia Creek (HQ-CWF)	Stream Code	3580
NHD Com ID	26295669	RMI	-
Drainage Area		Yield (cfs/mi <sup>2</sup> )	
Q <sub>7-10</sub> Flow (cfs)		Q <sub>7-10</sub> Basis	
Elevation (ft)		Slope (ft/ft)	-
Watershed No.	2-C	Chapter 93 Class.	HQ-CWF
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	-	Name	-
<u>Background/Ambient Data:</u>		<u>Data Source</u>	
pH (SU)	Not available	-	
Temperature (°F)	Not available	-	
Hardness (mg/L)	175 mg/l	Application (referenced EPA STORET database as source)	
Other:	Not available	-	
Nearest Downstream Public Water Supply Intake	LCA ALLENTOWN CITY WATER SYS (ID# 101757-001)		
PWS Waters	Little Lehigh Creek	Flow at Intake (cfs)	-
PWS RMI	-	Distance from Outfall (mi)	~7

Changes Since Last Permit Issuance: **Receiving UNT is now pathogen-impaired.** Swabia Creek is also now a Natural Trout Reproduction stream and pathogen impaired.

Other Comments:

- Swabia Creek (HQ-CWF; Stream Code# 3579) is impaired by Agriculture (Habitat alteration/siltation) and Urban Runoff/Storm Sewers (Siltation). Swabia Creek flows into the Little Lehigh River.
- Facility is co-located with other Petroleum Marketing Terminals/storage tank facilities (with their own NPDES Permits and outfalls on the UNT).
- UPPER MILFORD TWP LEHIGH CNTY MS4 Permit No. PA1132204 includes an upstream stormwater outfall on the UNT per E-maps.

**Compliance History**

**DMR Data for Outfall 001 (from September 1, 2018 to August 31, 2019)**

Parameter	AUG-19	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18	SEP-18
Oil and Grease (mg/L) Average						< 5.0						< 5.0
Oil and Grease (mg/L) Instantaneous Maximum						< 5.0						< 5.0
TRPH (mg/L) Average						< 5.0						< 5.0
TRPH (mg/L) Instantaneous Maximum						< 5.0						< 5.0

**DMR Data for Outfall 002 (from September 1, 2018 to August 31, 2019)**

Parameter	AUG-19	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18	SEP-18
Oil and Grease (mg/L) Average			< 5.0			< 5.0			< 5.0			< 5.0
Oil and Grease (mg/L) Instantaneous Maximum			< 5.0			< 5.0			< 5.0			< 5.0
TRPH (mg/L) Average			< 5.0			< 5.0			< 5.0			< 5.0
TRPH (mg/L) Maximum			< 5.0			< 5.0			< 5.0			< 5.0

**Compliance History**

**Inspection History:**

FACILITY NAME	INSP PROGRAM	INSP ID	INSPECTED DATE	INSP TYPE	INSPECTION RESULT DESC	INSPECTOR	# OF VIOLATIONS
BUCKEYE MACUNGIE TERM	WPCNP	2145362	10/04/2012	Administrative/File Review	Violation(s) Noted	RIPPLE, SHEENA	<a href="#">1</a>
BUCKEYE MACUNGIE TERM	WPCNP	2136208	01/30/2013	Routine/Complete Inspection	No Violations Noted	RIPPLE, SHEENA	0
BUCKEYE MACUNGIE TERM	WPCNP	2281118	08/01/2013	Routine/Partial Inspection	Violation(s) Noted	RIPPLE, SHEENA	<a href="#">1</a>
BUCKEYE MACUNGIE TERM	WPCNP	2436569	12/08/2015	Compliance Evaluation	No Violations Noted	SABITSKY, JARED	0
BUCKEYE MACUNGIE TERM	WPCNP	2623469	06/22/2017	Routine/Partial Inspection	Violation(s) Noted	HARDING, CHRISTIAN	<a href="#">2</a>
BUCKEYE MACUNGIE TERM	WPCNP	2860262	02/28/2019	Compliance Evaluation	No Violations Noted	HARDING, CHRISTIAN	0

**10/4/2019 WMS Query (Open Violations by Client No.):** No open violations per 10/4/2019 WMS query.

Permit: PA0070084  
 Client ID: 241053  
 Client: All

Open Violations: 0

No data was found using the criteria entered. Please revise your choices and try again.

**Comments:**

- **EDMR data does not indicate any hydrostatic test discharge reported since 2012.**
- **6/22/2017 NOV for late renewal. Permit administratively extended.**

**Development of Effluent Limitations**

<b>Outfall No.</b>	001 and 002 (stormwater only) 012 (hydrostatic test discharge)	<b>Design Flow (MGD)</b>	0 (001 and 002) 0.576 MGD (012)
<b>Latitude</b>	40° 30' 59.00" (001) 40° 30' 58.00" (002) 40° 30' 58.00" (012)	<b>Longitude</b>	-75° 32' 16.00" (001) -75° 32' 12.00" (002) -75° 32' 12.00" (012)
<b>Wastewater Description:</b>	Stormwater associated with industrial activities only (001 and 002) Hydrostatic Test Discharge only (012)		

**Permit Limits and Monitoring:** Changes bolded.

Parameter	Limit (mg/l unless otherwise specified)	SBC	Basis
<b>Stormwater Outfalls No. 001 and 002</b>	-	-	-
pH	<b>6.0 – 9.0</b>	<b>IMIN - IMAX</b>	<b>New requirement due to receiving HQ stream. Limit based on Chapter 95.2.</b>
TSS	<b>Report 100.0</b>	<b>Quarterly Average IMAX</b>	<b>New requirement based on PAG-03 BPJ for constituents of concern. Permit limit based on PAG-03 benchmark (statewide BPJ for stormwater discharges).</b>
Oil & Grease	15.0 30.0	<b>Quarterly Average IMAX</b>	Existing limits retained.
TRPH	No longer needed	<b>Quarterly Average IMAX</b>	Existing limits no longer required by PAG-03 GP BPJ for PMTs and similar facilities.
<b>Hydrostatic Discharge Outfall No. 012</b>	-	-	<b>This outfall is identical to Outfall No. 002, but reporting as Outfall No. 012 for hydrostatic test discharges (only) from existing tanks and pipelines.</b>
Flow	Report MGD Report MGD	<b>Quarterly Average IMAX</b>	Existing requirement retained.
Duration of Discharge	Report	Total Time	See above
pH	<b>6.0- 9.0 SU</b>	<b>IMIN - IMAX</b>	See above
Dissolved Oxygen	5.0	<b>IMIN</b>	See above
Total Residual Chlorine	Report 0.05	<b>Quarterly Average IMAX</b>	See above
TSS	100.0	<b>Quarterly Average IMAX</b>	See above
Oil & Grease	Report 30.0	<b>Quarterly Average IMAX</b>	See above
Dissolved Iron	Report 7.0	<b>Quarterly Average IMAX</b>	See above
Ethylbenzene	Report Report	<b>Quarterly Average IMAX</b>	See above
Benzene	Report 0.0025	<b>Quarterly Average IMAX</b>	See above
Total BTEX	Report 0.25	<b>Quarterly Average IMAX</b>	See above
Total PCBs (ug/l)	Report Report	<b>Quarterly Average IMAX</b>	See above
Toluene	Report Report	<b>Quarterly Average IMAX</b>	See above
Total Xylenes	Report Report	<b>Quarterly Average IMAX</b>	See above

**Comments:**

Grab sampling limits converted to Instantaneous Minimums (IMIN) per current EDMR requirements.

Quarterly monitoring retained due to discharge to HQ stream. Monitoring frequency will be reviewed in next renewal.

Averages (2/discharge) converted to quarterly averages to reflect existing quarterly monitoring frequency for this facility discharging to a HQ stream and change from standard 2/discharge to 1/discharge sampling requirements, plus potential for multiple hydrostatic test discharges during a calendar quarter.