

Application Type Renewal
Facility Type Industrial
Major / Minor Minor

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

Application No. PA0012467
APS ID 1062685
Authorization ID 1395162

Applicant and Facility Information

Applicant Name	<u>Laurel Pipe Line Co. LP</u>	Facility Name	<u>Booth Station IWTP</u>
Applicant Address	<u>3398 Garnet Mine Road</u> <u>Boothwyn, PA 19060-1720</u>	Facility Address	<u>3398 Garnet Mine Road</u> <u>Boothwyn, PA 19060-1720</u>
Applicant Contact	<u>Timothy Conlin</u>	Facility Contact	<u>Dave Tench</u>
Applicant Phone	<u>(484) 232-4414</u>	Facility Phone	<u>(610) 358-9317</u>
Client ID	<u>52522</u>	Site ID	<u>237656</u>
SIC Code	<u>4613</u>	Municipality	<u>Bethel Township</u>
SIC Description	<u>Trans. & Utilities - Refined Petroleum Pipelines</u>	County	<u>Delaware</u>
Date Application Received	<u>May 5, 2022</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u></u>	If No, Reason	<u></u>
Purpose of Application	<u>Permit Renewal</u>		

Summary of Review

Applicant requests renewal of an NPDES permit to discharge treated groundwater and stormwater.

Booth Station serves as a breakout tankage terminal and pump station for delivery lines in southern and western PA for refined petroleum transportation. The facility consists of in-coming and out-going pipeline systems and aboveground storage tanks.

Outfall 001 receives stormwater from all tank containment dikes, the manifold area, and the surrounding property (including office buildings, roads, parking areas etc.). All stormwater is directed to a pond with underflow dam and hydrocarbon sensor. Second pond contains weir, and third pond contains additional underflow dam prior to final Outfall 001.

Internal Monitoring Point, IMP 201 receives groundwater treated by the on-site remediation system. The treatment system is designed to operate continuously; however, discharge only occurs when the transfer pumps turn on due to high levels within the system.

On February 14, 2019, during a routine inspection of Tank 19, a release of unleaded gasoline was detected as a result of a crack in the floor of the tank. The groundwater remediation system consists of an oil/water separator, a series of particulate filters (to remove suspended solids), an air stripper, an additional series of particulate filters, and two 2,000-pound liquid-phase granular activated carbon (LGAC) vessels. The permitted flow through IMP 201 is 0.043 mgd.

DMR review shows the discharge is in compliance with the permit limitations all the time. No comments received from Operations Section on this application.

According to the ECB section, this project is not associated with Act 2 program or Storage Tank Program.

Approve	Deny	Signatures	Date
X		<i>Sara Abraham</i> Sara Reji Abraham, E.I.T. / Project Manager	June 16, 2022
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	06/22/2022

Summary of Review

No changes or upgrades are proposed at this time.

For Outfall 001, the existing limits are carried over to the draft permit as follows: pH (6.0 to 9.0 STD), TSS (Report), Oil and Grease (15 mg/l average, 30 mg/l lmax) and TRPH (15 mg/l average, 30 mg/l lmax).

For IMP 201, the existing limits are carried over to the draft permit as follows:

Parameter	Effluent limits (mg/l)	
	Average Monthly	Instant. Maximum
Flow (MGD)	Report	
Benzene	001	0.0025
Total BTEX	0.1	0.25
MTBE	Report	Report
TSS	30	75
pH (S.U.)	6.0 (Inst. Min)	9.0
Oil and Grease	15	30
Dissolved Iron		7.0

These limitations and requirements are consistent with the effluent limitations and requirements of General Permit for Petroleum Product Contaminated Groundwater Remediation Systems (PAG05). The samples shall be taken before mixing with other types of wastewater.

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.

Act 14 Notifications:

Bethel Township - April 26, 2022
Delaware County - April 26, 2022

Permit Conditions:

1. Acquire Necessary Property Rights
2. Proper Sludge Disposal
3. WQM Permit Requirement
4. BAT/BCT
5. Stormwater Requirements
6. Petroleum Transportation Facility Requirements
7. Groundwater Cleanup

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.043</u>
Latitude	<u>39° 51' 2.93"</u>	Longitude	<u>-75° 29' 41.02"</u>
Quad Name	<u>Marcus Hook</u>	Quad Code	<u>2042</u>
Wastewater Description: <u>Groundwater Cleanup Discharge, Stormwater and hydrostatic water</u>			
Receiving Waters	<u>UNT to Green Creek (CWF, MF)</u>	Stream Code	<u>00543</u>
NHD Com ID	<u>133387304</u>	RMI	<u>1.0</u>
Watershed No.	<u>3-G</u>	Chapter 93 Class.	<u>CWF, MF</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>cause unknown, flow regime modification, habitat alterations, siltation</u>		
Source(s) of Impairment	<u>habitat modification - other than hydromodification, urban runoff/storm sewers</u>		

Compliance History

DMR Data for Outfall 001 (from May 1, 2021 to April 30, 2022)

Parameter	APR-22	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21
pH (S.U.) Instantaneous Minimum		7.22			6.85			7.12			7.12	
pH (S.U.) Instantaneous Maximum		7.22			6.85			7.12			7.12	
TSS (mg/L) Average Quarterly		< 4.0			24.8			< 4.0			< 4.0	
Oil and Grease (mg/L) Average Quarterly		< 4.9			13.0			5.7			5.7	
Oil and Grease (mg/L) Instantaneous Maximum		< 4.9			13.0			5.7			5.7	
TRPH (mg/L) Average Quarterly		< 5.0			< 5.0			< 5.0			< 5.0	
TRPH (mg/L) Instantaneous Maximum		< 5.0			< 5.0			< 5.0			< 5.0	

DMR Data for Outfall 201 (from May 1, 2021 to April 30, 2022)

Parameter	APR-22	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21
Flow (MGD) Average Monthly	0.01122	0.0103	0.01112 8	0.0109	0.00941 1	0.00980 9	0.00976 6	0.01114 7	0.01110 7	0.01242	0.0133	0.01461 7
pH (S.U.) Instantaneous Minimum	7.20	7.3	7.1	7.0	7.0	6.90	7.10	6.70	7.20	7.10	6.30	7.26
pH (S.U.) Instantaneous Maximum	7.20	7.3	7.1	7.0	7.0	6.90	7.10	6.70	7.20	7.10	6.30	7.26
TSS (mg/L) Average Monthly	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TSS (mg/L) Instantaneous Maximum	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Oil and Grease (mg/L) Average Monthly	< 5.3	< 5.2	< 5.4	< 5.0	< 5.0	< 5.0	< 5.1	< 5.3	< 5.0	< 4.8	< 4.8	< 4.8

**NPDES Permit Fact Sheet
Booth Station IWTP**

NPDES Permit No. PA0012467

Oil and Grease (mg/L) Instantaneous Maximum	< 5.3	< 5.2	< 5.4	< 5.0	< 5.0	< 5.0	< 5.1	< 5.3	< 5.0	< 4.8	< 4.8	< 4.8
Dissolved Iron (mg/L) Instantaneous Maximum	< 0.0500	< 0.0500	< 0.100	< 0.100	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0700	< 0.070
Benzene (mg/L) Average Monthly	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Benzene (mg/L) Instantaneous Maximum	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Total BTEX (mg/L) Average Monthly	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060
Total BTEX (mg/L) Instantaneous Maximum	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060
MTBE (mg/L) Average Monthly	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
MTBE (mg/L) Instantaneous Maximum	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010

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 Quarterly	Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/quarter	Grab
TSS	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	Grab
Oil and Grease	XXX	XXX	XXX	15	XXX	30	1/quarter	Grab
TRPH	XXX	XXX	XXX	15.0	XXX	30.0	1/quarter	Grab

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Outfall 201, 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	XXX	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	75.0	1/month	Grab
Oil and Grease	XXX	XXX	XXX	15	XXX	30	1/month	Grab
Dissolved Iron	XXX	XXX	XXX	XXX	XXX	7.0	1/month	Grab
Benzene	XXX	XXX	XXX	0.001	XXX	0.0025	1/month	Grab
Total BTEX	XXX	XXX	XXX	0.1	XXX	0.25	1/month	Grab
MTBE	XXX	XXX	XXX	Report	XXX	Report	1/month	Grab