

Application Type Renewal
Facility Type Non-Municipal
Major / Minor Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0060780
APS ID 843528
Authorization ID 1471008

Applicant and Facility Information

Applicant Name <u>Leggett & Platt Inc.</u>	Facility Name <u>L & P Berwick</u>
Applicant Address <u>515 Salem Boulevard</u> <u>Berwick, PA 18603-6459</u>	Facility Address <u>515 Salem Boulevard</u> <u>Berwick, PA 18603-6459</u>
Applicant Contact <u>Patrick Levandoski</u>	Facility Contact <u>Patrick Levandoski</u>
Applicant Phone <u>(570) 542-4171</u>	Facility Phone <u>(570) 542-4171</u>
Client ID <u>159498</u>	Site ID <u>449768</u>
Ch 94 Load Status <u>Not Overloaded</u>	Municipality <u>Salem Township</u>
Connection Status <u></u>	County <u>Luzerne</u>
Date Application Received <u>January 26, 2024</u>	EPA Waived? <u>Yes</u>
Date Application Accepted <u>January 26, 2024</u>	If No, Reason <u></u>
Purpose of Application <u>Renewal of NPDES permit to discharge treated sewage effluent.</u>	

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.021 MGD of treated sewage an Unnamed Tributary to the Susquehanna River, a Cold-Water Fishery, Migratory Fish (CWF, MF) receiving stream in State Water Plan Basin 5-B (Toby – Wapwallopen Creeks). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use. This stream segment is not designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. This discharge is not expected to affect public water supplies.

The system is primary treatment via screening, secondary treatment, and disinfection by use of chlorine tablets. The facility also adds in Lime for pH adjustment.

Permittee did not indicate sludge removal on application. Sludge reporting supplemental form uploaded to DEP indicates any sludge produced by facility is hauled offsite by independent contractor to Bewick Joint Sewer Authority.

There are no representative stream gages in the vicinity of the outfall. A standard low flow yield (LFY) of 0.1 cfs/mi² was used to model the discharge. RMI values were obtained using the Department's eMapPA, drainage areas were delineated using USGS's StreamStats interactive map, and elevations were obtained using the elevation profile tool on StreamStats.

Limitations for pH, Total Suspended Solids, BOD₅, TRC, and Fecal Coliform are technology-based and carried over from the previous permit. Limitations for Dissolved Oxygen (DO) and Ammonia-Nitrogen are water quality-based and carried over from the previous permit. WQM modeling did not recommend stricter limitations for Ammonia-Nitrogen.

Monitoring and reporting of Total Nitrogen, Total Phosphorous, Total Kjeldahl Nitrogen, and Nitrate-Nitrite as N has been maintained in the permit. Frequency of reporting has been updated to match recommendations listed in table 6-3 of the

Approve	Deny	Signatures	Date
X		William Hon /s/ William Hon / Environmental Engineer Specialist	November 7, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager	11-22-24

Summary of Review

Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits Manual. This change is based on facility plant design flow and is changed from 1/year to 2/month.

Table 6-3 of the Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits Manual recommends changes to monitoring frequencies of pH, DO, and TRC. Frequencies will be changed from 4/month to 1/day in accordance with this instruction.

Sampling type for all effluent limitations is changed to "Grab" in accordance with Table 6-3 guideline: "Grab sample-these should be most representative of the effluent and are to be taken at a time when the normal daily maximum flow would reach the sampling point." This is based on facility design flow.

E. Coli monitoring requirements will be introduced into new permit according to PA DEP policy for individual sewage effluent limitations. E. Coli requirements for a treatment plant with less than .05mgd discharge is found in the SOP for establishing effluent limitations for individual sewage.

There are two Total Maximum Daily Loads (TMDLs) for the segment of the Susquehanna River that the Unnamed Tributary feeds into. The first TMDL addresses metals (iron, manganese, and aluminum) associated with acid mine drainage (AMD). There are no approved Waste Load Allocations (WLA) for this facility. Annual monitoring and reporting for Total Iron, Total Manganese, and Total Aluminum will be maintained in this permit to gather data for updating the TMDL.

The second TMDL addresses PCBs and is treated as a non-point source contaminant because there are no known sources of PCB to this segment of the Susquehanna River. There are no approved WLAs for this facility. Since the flows are primarily sewage and the use of PCB in the United States has been banned since July of 1979, no PCBs are expected to be present in the effluent.

Oil and Grease monitoring requirements will continue to be maintained in this permit due to limitations place in permit in 2012. "This 5.63 acre facility is a "manufacturer of bonded carpet underlayment" (SIC #3086) which is subject to 40 CFR 463 (Plastic Foam Products). The ELG applies due to CCW (steam condensate) going to WWTP." The 29.0mg/L limitation will be maintained due to DEP Anti-backsliding policy.

Approximately .002 MGD of wastewater that is discharged is Industrial Waste (IW) from Steam Mold Condensate, Boiler Blowdown, and Compressor Condensate onsite. The Chemical Additives section has been maintained in Part C.IV. of this permit.

The existing permit expired on 9/30/2024 and the application for renewal was received on time. A Water Management System Inspection query indicated that on 12/07/2022 a Compliance Evaluation was performed with no noted violations. There are two open violations for this facility:

- NPDES - Violation of effluent limits in Part A of permit
- NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports

Recommend Approval.

Modeling Inputs:

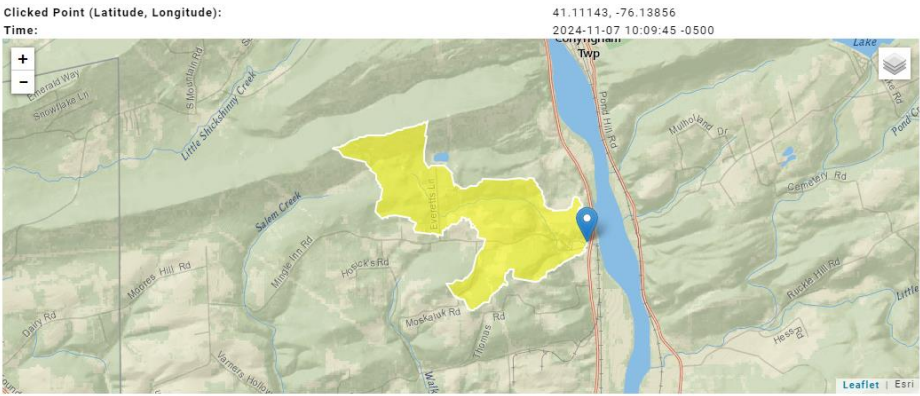
PT1 @ Outfall

Stream: Tributary 28281 to Susquehanna River

Code 28281, Watershed 5B (Toby – Wapwallopen Creeks), CWF

RMI: 1.5

Summary of Review

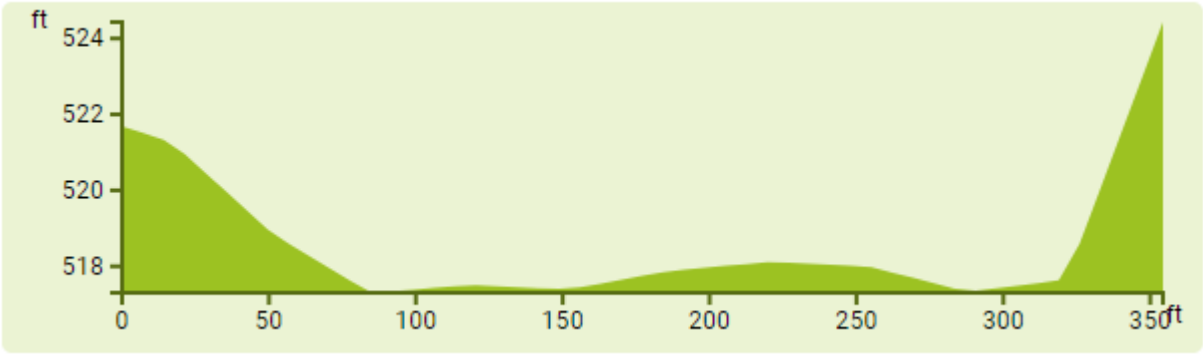


Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	0	percent
DRNAREA	Area that drains to a point on a stream	1.81	square miles

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.114	ft ³ /s
30 Day 2 Year Low Flow	0.163	ft ³ /s
7 Day 10 Year Low Flow	0.0454	ft ³ /s



41.11142	-76.13853	517.40
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Summary of Review

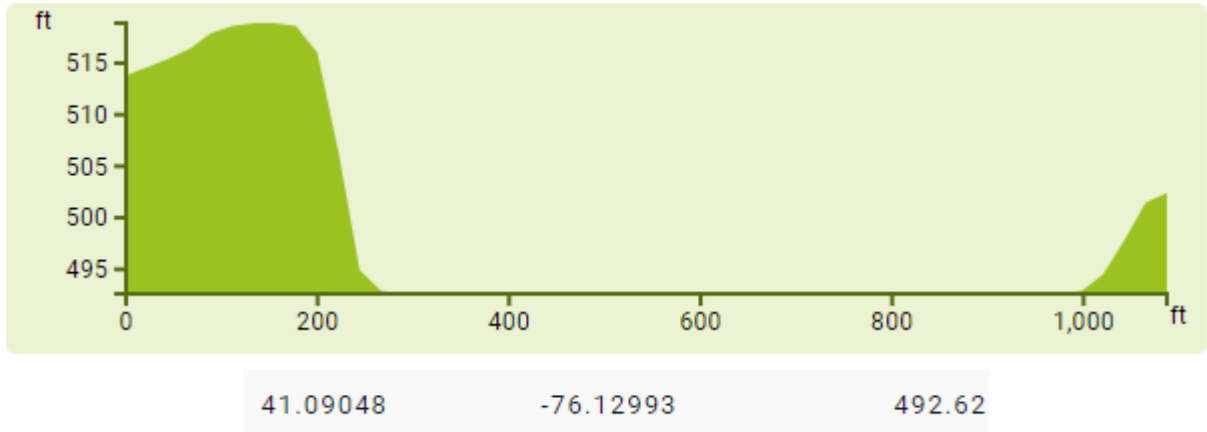
PT 2 @ 1.5miles down Susquehanna River (Susquehanna river conflux .1miles from outfall)
RMI: .01



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	1.12	percent
DRNAREA	Area that drains to a point on a stream	10200	square miles
Statistic		Value	Unit
7 Day 2 Year Low Flow		1430	ft^3/s
30 Day 2 Year Low Flow		1740	ft^3/s
7 Day 10 Year Low Flow		956	ft^3/s



Summary of Review

Analysis Results WQM 7.0

Hydrodynamics

NH3-N Allocations

D.O. Allocations

D.O. Simulation

Effluent Limitations

RMI

Discharge Name

Permit Number

Disc Flow (mgd)

1.50

Legget and Plat

PA0060780

0.0210

Parameter

Effluent Limit 30 Day Average (mg/L)

Effluent Limit Maximum (mg/L)

Effluent Limit Minimum (mg/L)

CBOD5

25

NH3-N

15.59

31.18

Dissolved Oxygen

3

Record: 1 of 1

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TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

0.181	= Q stream (cfs)	0.5	= CV Daily	
0.021	= Q discharge (MGD)	0.5	= CV Hourly	
30	= no. samples	1	= AFC_Partial Mix Factor	
0.3	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor	
0	= Chlorine Demand of Discharge	15	= AFC_Criteria Compliance Time (min)	
0.5	= BAT/BPJ Value	720	= CFC_Criteria Compliance Time (min)	
0	= % Factor of Safety (FOS)		=Decay Coefficient (K)	
Source	Reference	AFC Calculations	Reference	CFC Calculations
TRC	1.3.2.iii	WLA afc = 1.796	1.3.2.iii	WLA cfc = 1.744
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373	5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 0.669	5.1d	LTA_cfc = 1.014
Source	Effluent Limit Calculations			
PENTOXSD TRG	5.1f	AML MULT = 1.231	BAT/BPJ	
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.500		
		INST MAX LIMIT (mg/l) = 1.635		

Q Stream = .1 (LFY) * 1.81 (drn area)

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-

Summary of Review

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		William Hon /s/ William Hon / Environmental Engineer Specialist	November 7, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager	11-22-24