

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0032140
 APS ID 560951
 Authorization ID 1464242

Applicant and Facility Information

Applicant Name	<u>PA DCNR State Parks Bureau</u>	Facility Name	<u>Lackawanna State Park</u>
Applicant Address	<u>RR 1 Box 230</u> <u>Dalton, PA 18414-9753</u>	Facility Address	<u>RR 1 Box 230</u> <u>Dalton, PA 18414-9785</u>
Applicant Contact	<u>Lee Dillion</u>	Facility Contact	<u>Lee Dillion</u>
Applicant Phone	<u>(570) 945-1000</u>	Facility Phone	<u>(570) 945-1000</u>
Client ID	<u>64584</u>	Site ID	<u>448650</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Benton Township</u>
Connection Status		County	<u>Lackawanna</u>
Date Application Received	<u>November 4, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>November 4, 2023</u>	If No, Reason	
Purpose of Application	<u>Renewal of existing 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 0.105 MGD of treated sewage into the South Branch of Tunkhannock Creek, a TSF (Trout Stocking) receiving stream in State Water Plan Basin 4-F (Susquehanna 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 its designated use.

The system consists of a grinder pump and trash basket-screen for primary treatment, two sequencing batch reactors, a EQ basin, an aerated sludge storage tank, and uses both sodium hypochlorite and UV for disinfection.

Permittee indicated no hauling of sludge or biosolids take place at this facility on application.

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.

As per agreement between DEP and DCNR for the previous permit, DO, pH, and TRC are to be sampled for 3 times per week during the winter months (October through April). The summertime required sampling frequencies for these parameters are in accordance with the guidance document (1/day).

Limitations for pH, Total Suspended Solids (TSS), and Fecal Coliform are technology-based and carried over from the previous permit. Limitations for CBOD₅, Dissolved Oxygen, and Ammonia-Nitrogen are water quality-based and carried over from the previous permit. TRC limitations will be updated to the current BPJ standards. This is a change from an average monthly limit of 1.0mg/L and an IMAX of 2.0mg/L to 0.5mg/L monthly average and 1.6mg/L IMAX. Quarterly monitoring requirements for Total Nitrogen, Total Kjeldahl Nitrogen, Nitrate-Nitrite as N, Total Phosphate, and Total Copper will be carried over from previous permit. E. Coli monitoring requirements will be introduced into new permit.

Approve	Deny	Signatures	Date
X		William Hon (s) William Hon / Environmental Engineer Specialist	September 26, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager	10-3-24

Summary of Review

according to PA DEP policy for individual sewage effluent limitations. E. Coli requirements for a treatment plant with design flows between .05 and 1MGD discharge is found in the SOP for establishing effluent limitations for individual sewage and is report 1/quarter.

The previous permit expired on 5/31/2024. The renewal application was received and processed by the DEP on 11/4/2023. Last inspection at this facility was on 8/12/2024 with 3 reported violations which have been resolved as of 9/16/2024. There are no open violations that would withhold the issuance of this permit.

Modeling Inputs:

Pt 1: @ Outfall

RMI: 1.40

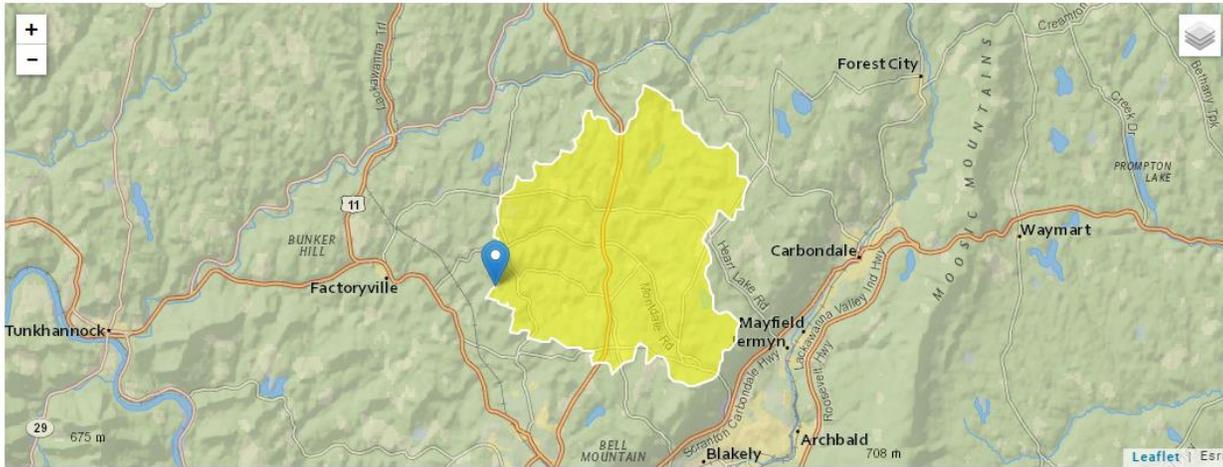
Stream: South Branch Tunkhannock Creek 28799

Clicked Point (Latitude, Longitude):

41.55802, -75.71861

Time:

2024-09-25 14:00:12 -0400

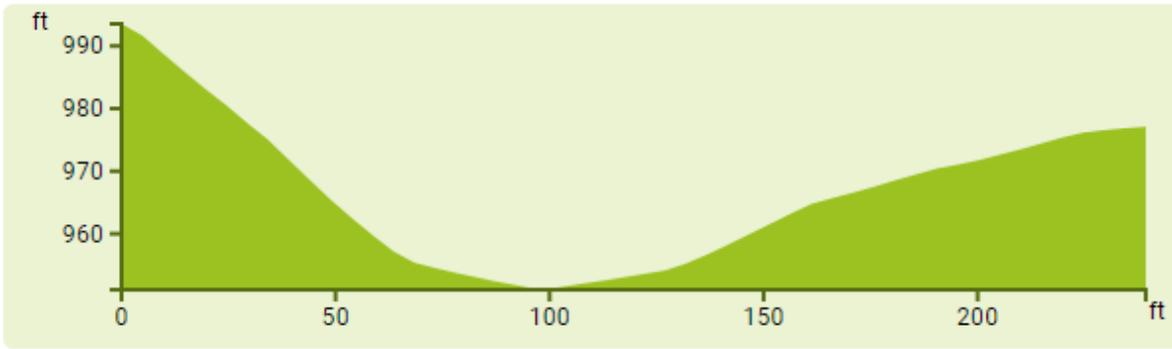


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Basin Characteristics

Parameter Code	Parameter Description	Value	Unit	SE	ASEp
DRNAREA	Area that drains to a point on a stream	46.2	square miles		
Statistic	Value	Unit	SE	ASEp	
7 Day 2 Year Low Flow	3.44	ft ³ /s	38	38	
30 Day 2 Year Low Flow	4.88	ft ³ /s	33	33	
7 Day 10 Year Low Flow	1.31	ft ³ /s	57	57	

Summary of Review



Pt 2: @ conflux with tributary 28851 1.41 miles downstream
RMI: .01

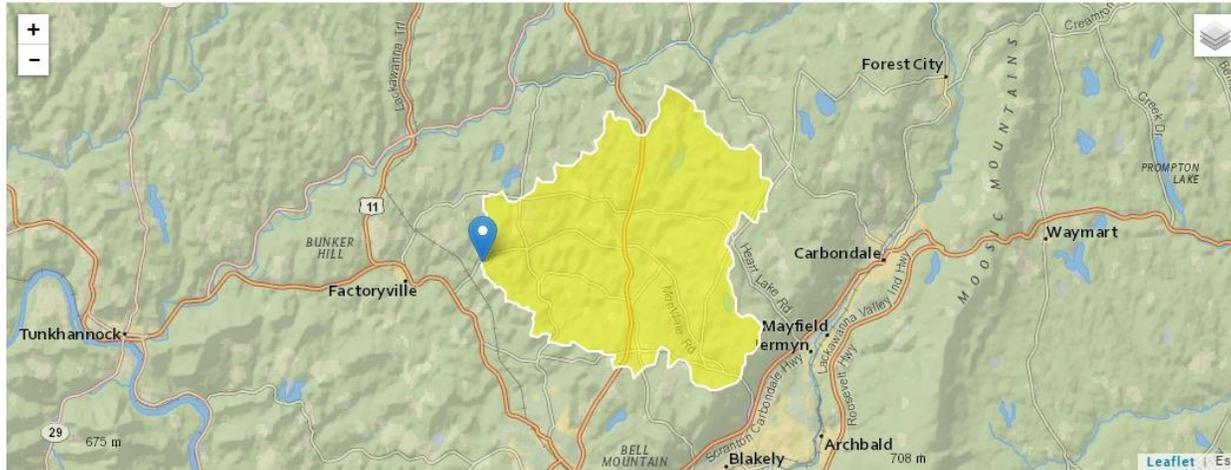
Stream: South Branch Tunkhannock Creek 28799

Clicked Point (Latitude, Longitude):

41.56974, -75.73786

Time:

2024-09-25 14:18:29 -0400

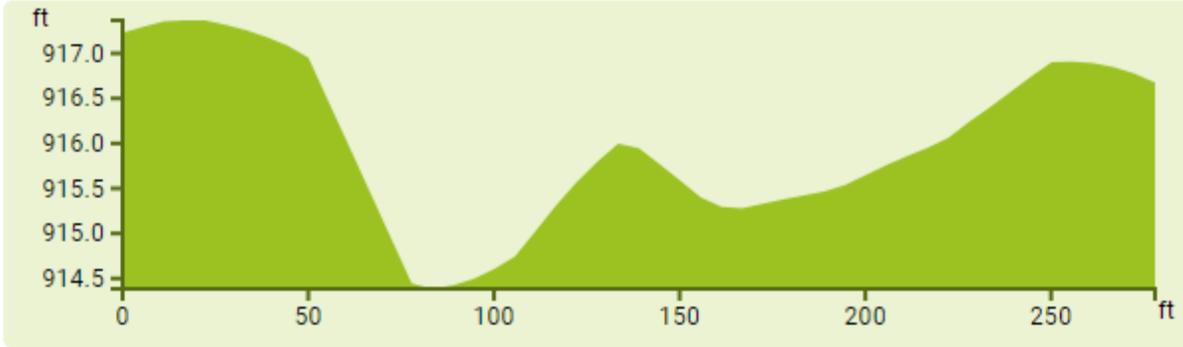


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Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	49.1	square miles
7 Day 2 Year Low Flow		3.7	ft ³ /s
30 Day 2 Year Low Flow		5.23	ft ³ /s
7 Day 10 Year Low Flow		1.42	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)
1.40	Lackawanna Stat	PA0032140	0.1050

Parameter	Effluent Limit 30 Day Average (mg/L)	Effluent Limit Maximum (mg/L)	Effluent Limit Minimum (mg/L)
CBOD5	25		
NH3-N	21.98	43.96	
Dissolved Oxygen			3

Record: 1 of 1 | No Filter | Search

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Summary of Review

TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

1.31	= Q stream (cfs)	0.5	= CV Daily
0.105	= 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 = 2.592	1.3.2.iii	WLA cfc = 2.519
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373	5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc = 0.966	5.1d	LTA_cfc = 1.465

Source	Reference	Effluent Limit Calculations
PENTOXSD TRG	5.1f	AML MULT = 1.231
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.500
		INST MAX LIMIT (mg/l) = 1.635
		BAT/BPJ

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		William Hon (s) William Hon / Environmental Engineer Specialist	September 26, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager	10-3-24