

Application Type Renewal
 Facility Type Municipal
 Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0063240
 APS ID 493001
 Authorization ID 1487728

Applicant and Facility Information

Applicant Name	<u>Lehigh Township Municipal Authority</u>	Facility Name	<u>Danielsville WWTF</u>
Applicant Address	<u>1069 Municipal Road</u> <u>Walnutport, PA 18088</u>	Facility Address	<u>1069 Municipal Road</u> <u>Walnutport, PA 18088-9718</u>
Applicant Contact	<u>Carl Sharpe</u>	Facility Contact	<u>David Getz</u>
Applicant Phone	<u>(610) 760-2459</u>	Facility Phone	<u>(610) 760-2459</u>
Client ID	<u>78422</u>	Site ID	<u>270980</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Lehigh Township</u>
Connection Status	<u>No Prohibitions</u>	County	<u>Northampton</u>
Date Application Received	<u>June 2, 2024</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>June 2, 2024</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of NPDES permit.</u>		

Summary of Review

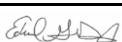
The applicant is requesting renewal of their NPDES permit to discharge up to 0.3 MGD of treated sewage to Bertsch Creek (stream code is 3733), a CWF/MF designated receiving water in state water plan basin 02-C (Lower Lehigh River). As per the Department's current existing use list, the receiving water does not have an existing use classification that is more protective than its designated use.

The default low flow yield (LFY) of 0.1 cfs/mi² was chosen to model the discharge since there are no nearby representative stream gages to obtain flow data from. For modeling inputs, RMI values were obtained using the "PA Historic Streams" feature of eMapPA as well as the "measure" tool. Drainage areas were delineated using USGS's StreamStats Interactive Map and elevations were obtained using the elevation profile feature of StreamStats (see Watershed Information attachment). As with the previous renewal, the discharge was modeled using a discharge temperature of 22°C.

Limitations for CBOD₅, TSS, pH and Fecal Coliform are technology-based and carried over from the previous permit. The Dissolved Oxygen, Ammonia-N, and TRC limitations are water quality-based and carried over from the previous permit.

Monthly monitoring and reporting requirements for Total Nitrogen, Nitrate+Nitrite-Nitrogen, Total Kjeldahl Nitrogen, and Total Phosphorus are carried over from the previous permit. Quarterly monitoring/reporting is added to the permit for E. Coli as per current guidance. Weekly monitoring and reporting requirements for influent BOD₅ and influent TSS are carried over from the previous permit.

The quarterly average Total Dissolved Solids limitation of 1,000 mg/L from DRBC docket D-1994-053 CP-3 is carried over in this renewal. DRBC docket D-1994-053 CP-4 (approved 12/5/2024) doesn't include any additional requirements to incorporate into the NPDES permit.

Approve	Deny	Signatures	Date
X		 Brian Burden, E.I.T. / Project Manager	May 15, 2025
X		 Edward Dudick, P.E. / Environmental Engineer Manager	May 15, 2025

Summary of Review

Pollutant sampling results submitted with the permit application were modeled with DEP's Toxics Management Spreadsheet and the following requirements are recommended:

- Total Copper: The reported result of 0.005 mg/L is greater than 10% of the calculated monthly average WQBEL of 0.016 mg/L and monitoring requirements are recommended. Quarterly monitoring/reporting for Total Copper is added to the permit.
- Total Zinc: The reported result of 0.027 mg/L is greater than 10% of the calculated monthly average WQBEL of 0.130 mg/L and monitoring requirements are recommended. Quarterly monitoring/reporting for Total Zinc is added to the permit.

Monitoring frequencies for all parameters with limitations are consistent with the recommended frequencies found in Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations (doc. no. 362-0400-001). Since the TDS limitations were initiated by the DRBC, the minimum monitoring frequency remains quarterly for that parameter.

The facility's 2024 Chapter 94 report shows no current or projected hydraulic/organic overloads at the WWTP.

Sludge use and disposal description and location(s): The permit renewal application indicates 8.106 dry tons of sewage sludge was hauled to the LCA Pretreatment facility during the previous year via Allstate Septic.



Watershed
Information.pdf



WQM
Modeling.pdf



TRC Calculation.pdf



TMS PA0063240.pdf



1994-053 CP-4.pdf

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.	<u>001</u>	Design Flow (MGD)	<u>0.3</u>
Latitude	<u>40° 46' 32"</u>	Longitude	<u>-75° 33' 19"</u>
Quad Name	<u>Palmerton</u>	Quad Code	<u>1241</u>
Wastewater Description: <u>Sewage Effluent</u>			

Receiving Waters	<u>Bertsch Creek (CWF/MF)</u>	Stream Code	<u>3733</u>
NHD Com ID	<u>26289875</u>	RMI	<u>4.05</u>
Drainage Area	<u>3.4 mi²</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.34</u>	Q ₇₋₁₀ Basis	<u>Default LFY</u>
Elevation (ft)	<u>541</u>	Slope (ft/ft)	<u>0.0079</u>
Watershed No.	<u>2-C</u>	Chapter 93 Class.	<u>CWF/MF</u>
Existing Use	<u>-</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u>-</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u>-</u>		
Source(s) of Impairment	<u>-</u>		
TMDL Status	<u>-</u>	Name	<u>-</u>

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

Nearest Downstream Public Water Supply Intake	<u>Northampton Borough Municipal Authority</u>		
PWS Waters	<u>Lehigh River</u>	Flow at Intake (cfs)	<u>93.7 (using default LFY)</u>
PWS RMI	<u>24.8</u>	Distance from Outfall (mi)	<u>~10</u>

Treatment Facility Summary				
Treatment Facility Name: Danielsville WWTF				
WQM Permit No.		Issuance Date		
4895405		1/30/1996		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	SBR	Chlorine Contact / Dechlorination	0.3
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.3	510	Not Overloaded	Digested	Hauled Off Site / Reed Beds



Outfall No. 001
Latitude 40° 46' 32"
Wastewater Description: Sewage Effluent

Design Flow (MGD) 0.3
Longitude -75° 33' 19"

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD ₅	25.0	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40.0	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
	50.0	IMAX	-	-
Total Suspended Solids	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45.0	Average Weekly	133.102(b)(2)	92a.47(a)(2)
	60.0	IMAX	-	-
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
	10,000 / 100 ml	IMAX	-	92a.47(a)(5)

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model / Basis
Ammonia-Nitrogen (5/1 – 10/31)	3.5	Average Monthly	2019 WQM 7.0 Modeling
	7.0	IMAX	
Ammonia-Nitrogen (11/1 – 4/30)	10.5	Average Monthly	
	21.0	IMAX	
Total Residual Chlorine	0.11	Average Monthly	2019 TRC Calculation Spreadsheet
	0.37	IMAX	
Dissolved Oxygen	5.0	Minimum	Previous Modeling
Total Dissolved Solids	1,000	Average Quarterly	DRBC Draft Docket No. D-1994-053 CP-3

Anti-Backsliding

No limitations were removed from the permit or made less stringent.