

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0031917
 APS ID 521911
 Authorization ID 1332873

Applicant and Facility Information

Applicant Name	<u>Blue Mountain School District</u>	Facility Name	<u>Blue Mountain High School</u>
Applicant Address	<u>688 Red Dale Road PO Box 188</u> <u>Orwigsburg, PA 17961-2035</u>	Facility Address	<u>1076 W. Market Street</u> <u>Schuylkill Haven, PA 17972</u>
Applicant Contact	<u>Jeffery Faust</u>	Facility Contact	<u>Jeffery Faust</u>
Applicant Phone	<u>(570) 366-0515</u>	Facility Phone	<u>(570) 366-0515</u>
Client ID	<u>1673</u>	Site ID	<u>251330</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>North Manheim Township</u>
Connection Status	<u>-</u>	County	<u>Schuylkill</u>
Date Application Received	<u>November 3, 2020</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>December 18, 2020</u>	If No, Reason	<u></u>
Purpose of Application	<u>Renewal of an existing NPDES permit to discharge 0.027 MGD of treated sewage.</u>		

Summary of Review

The applicant is requesting renewal of NPDES Permit No. PA0031917 to authorize a discharge of 0.027 MGD of treated sewage from a minor sewage treatment plant into Mahonney Creek (CWF, MF) in State Water Plan Watershed 03-A. Per the Department's Existing Use list (rev. 5/25/2021), Mahonney Creek does not have an existing use classification. The 2020 Pennsylvania Integrated Water Quality Monitoring and Assessment Report lists Mahonney Creek as 'Attaining' for Aquatic Life but 'Impaired' for Recreation (Source: Unknown, Cause: Pathogens). The discharge is not expected to affect public water supplies.

A TMDL for the Upper Schuylkill River Watershed was approved by EPA on April 7, 2007. The TMDL addresses metals associated with acid mine drainage (AMD) (iron, manganese, and aluminum) and pH, and assigns point source waste load allocations to permitted mine drainage discharges. The TMDL does not assign point source waste load allocations to sewage treatment facilities. The discharge is not expected to contribute to the AMD impairment.

In 2019, the annual average flow was approximately 0.0021 MGD. The highest monthly average flow in 2019 occurred in December when the facility discharged 0.013 MGD. The facility's unit treatment processes include a bar screen, an extended aeration tank, a sludge digester, two clarifiers, and a chlorine contact tank. Disinfection is accomplished through the addition of chlorine tablets.

Monitoring frequencies were adjusted to conform to Table 6-3 of DEP's *Technical Guidance for the Development and Specification of Effluent Limitations*:

- The monitoring frequency for **Total Residual Chlorine** has increased from 1/week to 5/week. It shall be increased to 1/day in the next permit term.
- The monitoring frequency for **pH** has increased from 1/week to 5/week. It shall be increased to 1/day in the next permit term.
- The monitoring frequency for **Total Suspended Solids** has increased from 1/month to 2/month.

Approve	Deny	Signatures	Date
X		Joseph Cherinko (signed) Joseph Cherinko, P.E. / Environmental Engineering Specialist	June 10, 2021
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager	6-16-21

Summary of Review

- The monitoring frequency for **Fecal Coliform** has increased from 1/month to 2/month.
- The monitoring frequency for **Ammonia-Nitrogen** has increased from 1/month to 2/month.

In accordance with the Department's *Establishing Effluent Limitations for Individual Sewage Permits* (SOP No. BCW-PMT-033):

- **Dissolved Oxygen** has been added to the permit with a limit of 4.0 mg/L. The monitoring frequency is 5/week; it shall increase to 1/day in the next permit term.
- Annual monitoring for **E. Coli** has been added to the permit.

WQM 7.0 v1.1 was used to determine the appropriate limits for Ammonia-Nitrogen and CBOD5. The modeling results support retaining the existing limits.

TRC limitations in the previously issued permit were old technology-based limitations (1.2 mg/L monthly average, 2.8 mg/L IMAX). As per PA Code 92a.47(a)(8), which references 92a.48(b)(2), a monthly average TRC facility-specific BAT effluent limit of 0.5 mg/L and an IMAX limit of 1.6 mg/L is applied to the permit. The Department's TRC Spreadsheet confirmed the applicability of the BAT limitations. The new TRC limits will go into effect 4 years after permit issuance.

The WMS query 'Inspections' was performed. A 'Compliance Evaluation' was performed on February 25, 2020; no violations were observed. The WMS query 'Open Violations by Client Report' was performed; the applicant has no open violations.

The NPDES permit expired on April 30, 2021. The renewal application was due by November 1, 2020; it was marked received on November 3, 2020.

The EPA Waiver is in effect.

Sludge use and disposal description and location(s): Liquid sludge hauled by private contractor to private holding facility.

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>.027</u>
Latitude	<u>40° 39' 6"</u>	Longitude	<u>-76° 8' 2"</u>
Quad Name	<u>Pottsville</u>	Quad Code	<u>1336</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Mahoney Creek (CWF, MF)</u>	Stream Code	<u>2319</u>
NHD Com ID	<u>25991168</u>	RMI	<u>1.5</u>
Drainage Area	<u>2.35</u>	Yield (cfs/mi ²)	<u>0.23</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.54</u>	Q ₇₋₁₀ Basis	<u>USGS 01470500</u>
Elevation (ft)	<u>573</u>	Slope (ft/ft)	<u>-</u>
Watershed No.	<u>3-A</u>	Chapter 93 Class.	<u>CWF, MF</u>
Existing Use		Existing Use Qualifier	<u>-</u>
Exceptions to Use		Exceptions to Criteria	<u>-</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status	<u>Final</u>	Name	<u>Upper Schuylkill River</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>Pottstown Borough Water Authority</u>		
PWS Waters	<u>-</u>	Flow at Intake (cfs)	<u>-</u>
PWS RMI	<u>-</u>	Distance from Outfall (mi)	<u>> 50 miles</u>

Changes Since Last Permit Issuance: -

Other Comments: -

Treatment Facility Summary				
Treatment Facility Name: Blue Mt Hi School/ STP				
WQM Permit No.		Issuance Date		
UNK		UNK		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Aeration	Chlorine Tablets	0.0021 (2019)
Hydraulic Capacity (MGD)				
0.027	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
	54	Not Overloaded	Sludge Digester	Hauled

Changes Since Last Permit Issuance: -

Other Comments: -

Compliance History

DMR Data for Outfall 001 (from May 1, 2020 to April 30, 2021)

Parameter	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20	JUN-20	MAY-20
Flow (MGD) Average Monthly	0.001	0.002	0.004	0.001	0.001	0.0009	0.001	0.001	0.0003	0.0002	0.00002	0.0001
Flow (MGD) Daily Maximum	0.005	0.014	0.018	0.012	0.03	0.004	0.005	0.004	0.001	0.002	0.001	0.001
pH (S.U.) Minimum	6.6	6.1	6.5	6.5	6.4	6.4	6.3	6.1	6.3	6.4	6.5	6.7
pH (S.U.) Maximum	7.0	6.9	7.4	7.4	7.0	7.8	7.1	6.7	7.6	7.4	8.0	7.5
TRC (mg/L) Average Monthly*	0.49	0.41	0.53	1.0	0.88	0.57	0.88	0.85	0.49	0.48	0.55	0.54
TRC (mg/L) Instantaneous Maximum*	0.70	0.84	1.19	1.9	1.59	1.11	1.99	2.15	1.38	0.55	1.23	2.11
CBOD5 (mg/L) Average Monthly	2.2	3.1	2.6	2.2	3.0	< 2.0	2.5	2.0	2.0	2.1	3.3	4.1
TSS (mg/L) Average Monthly	8.0	10.0	9.0	11.0	13.0	8.3	15.0	16.0	2.0	15.0	16.0	1.0
Fecal Coliform (CFU/100 ml) Geometric Mean	70	< 10	< 10	< 10	< 1	< 1	< 2	< 1	< 1	60	< 1	< 1
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	70	< 10	< 10	< 10	< 1	< 1	< 2	< 1	< 1	60	< 1	< 1
Nitrate-Nitrite (mg/L) Annual Average					85.3							
Total Nitrogen (mg/L) Annual Average					87.89							
Ammonia (mg/L) Average Monthly							3.1	< 0.10	< 0.10	< 0.1	0.7	< 0.1
TKN (mg/L) Annual Average					2.59							
Total Phosphorus (mg/L) Annual Average					11.6							

*A TRC average monthly limit of 0.5 mg/L, and IMAX limit of 1.6 mg/L, will go into effect 4 years after permit issuance.