

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

## NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0062863  
APS ID 599148  
Authorization ID 1410348

### Applicant and Facility Information

Applicant Name <u>Pike County Commissioners</u>	Facility Name <u>Pike County Correctional Facility</u>
Applicant Address <u>506 Broad Street</u> <u>Milford, PA 18337-1539</u>	Facility Address <u>175 Pike County Boulevard</u> <u>Lords Valley, PA 18428-9151</u>
Applicant Contact <u>Matthew Osterberg</u>	Facility Contact <u>Craig Lowe</u>
Applicant Phone <u>(570) 296-3569</u>	Facility Phone <u></u>
Client ID <u>1662</u>	Site ID <u>461152</u>
Ch 94 Load Status <u>Not Overloaded</u>	Municipality <u>Blooming Grove Township</u>
Connection Status <u></u>	County <u>Pike</u>
Date Application Received <u>September 1, 2022</u>	EPA Waived? <u>Yes</u>
Date Application Accepted <u>September 1, 2022.</u>	If No, Reason <u></u>
Purpose of Application <u>RENEWAL OF EXISTING NPDES PERMIT.</u>	

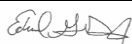
### Summary of Review

The applicant is requesting renewal of an NPDES permit to discharge treated sewage to Billings Creek, located in State Water Plan watershed 1-D (Upper Shahola Creek) and it is classified for HQ/CWF-MF (High Quality-Cold Water and Migratory Fish); aquatic life, water supply and recreation. The discharge is not expected to affect public water supplies. Per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than the designated use.

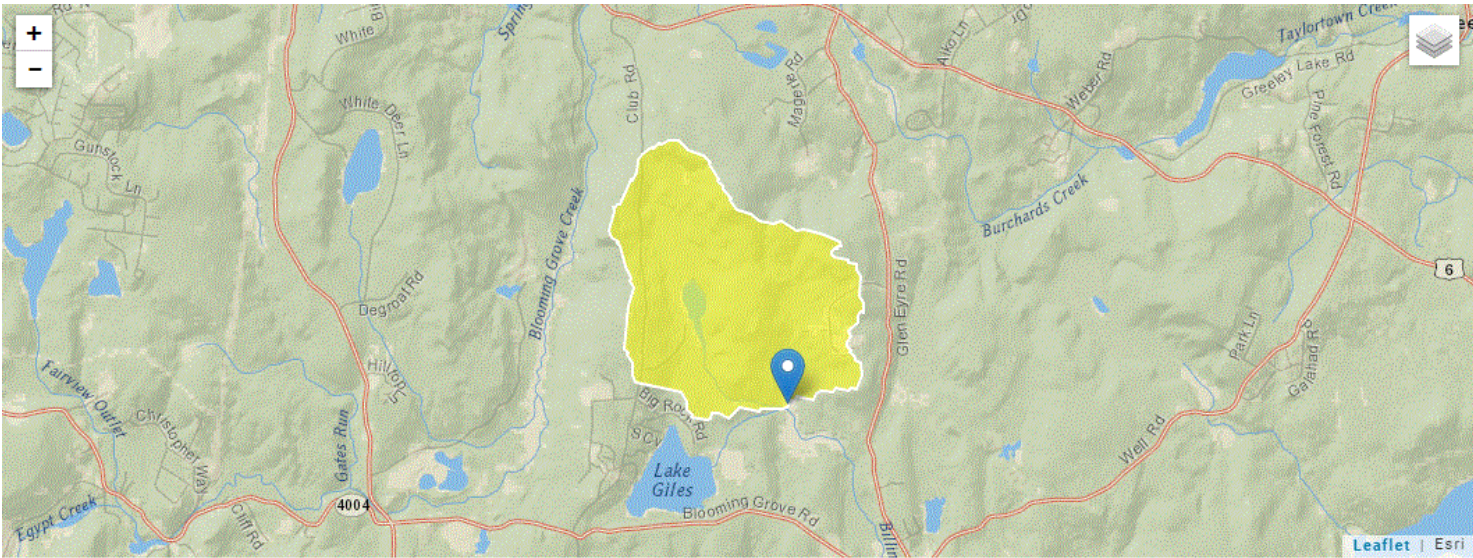
The primary method of sewage disposal is spray irrigation. A stream discharge is utilized during non-spray months. Per the DMRs submitted in the past 3 years, a discharge generally occurred in the months of December through April. From the eDMR history attached below, there are no non-compliances to report.

The effluent limits continue to be based upon a discharge rate of 0.0484 MGD. The permit is being renewed using the same effluent limits as the previous permit. The TSS, Fecal Coliform and pH limits are technology-based secondary treatment requirements per §92a.47. The CBOD5, NH3-N, NO2/NO3-N, Phosphorus, and Dissolved Oxygen limits are water quality-based. Modeling recommended more stringent limits for NH3-N. Reviewing the applicant's eDMR data shows the new limits should be achievable under current conditions. There are no TRC limits as the facility uses ultraviolet disinfection. E-coli annual Monitoring has been added as per 2024 DEP standard Operating Procedures (SOP).

An Inspection was performed on October 26,2021 and no violations were noted.

Approve	Deny	Signatures	Date
X		Hakim Yesli (signed) Hakim Yesli / Environmental Engineering Specialist	August 25, 2025
X		 Edward Dudick, P.E. / Environmental Engineer Manager	August 26, 2025

Summary of Review



+ Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	1.93	square miles
FOREST	Percentage of area covered by forest	82.4608	percent
GLACIATED	Percentage of basin area that was historically covered by glaciers	100	percent
PRECIP	Mean Annual Precipitation	41	inches

Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 5]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.93	square miles	4.84	982



**Discharge, Receiving Waters and Water Supply Information**

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0484</u>
Latitude	<u>41° 23' 27.81"</u>	Longitude	<u>-75° 4' 41.56"</u>
Quad Name	<u>Rowland</u>	Quad Code	<u>0745</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Billings Creek (HQ-CWF, MF)</u>	Stream Code	<u>5416</u>
NHD Com ID	<u>26170404</u>	RMI	<u>0.45</u>
Drainage Area	<u>0.42</u>	Yield (cfs/mi <sup>2</sup> )	<u>0.04</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.02</u>	Q <sub>7-10</sub> Basis	<u>PA stream stats</u>
Elevation (ft)	<u>                    </u>	Slope (ft/ft)	<u>                    </u>
Watershed No.	<u>1-D</u>	Chapter 93 Class.	<u>HQ-CWF, MF</u>
Existing Use	<u>None</u>	Existing Use Qualifier	<u>N/A</u>
Exceptions to Use	<u>                    </u>	Exceptions to Criteria	<u>                    </u>
Assessment Status	<u>Attaining Uses</u>		
Cause(s) of Impairment	<u>N/A</u>		
Source(s) of Impairment	<u>                    </u>		
TMDL Status	<u>N/A</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>Easton Area public water</u>		
PWS Waters	<u>                    </u>	Flow at Intake (cfs)	<u>                    </u>
PWS RMI	<u>                    </u>	Distance from Outfall (mi)	<u>&gt; 50mi</u>

Changes Since Last Permit Issuance: None.

@Outfall 001: drainage area = 0.42 mi<sup>2</sup> at 1367 ft elevation

Low Flow Yield calculated from Streamstats is =0.04 cfs/mi<sup>2</sup>

@ Billings Pond:

USGS DRNAREA Drainage Area = 1.93 mi<sup>2</sup> at 1332 ft elevation

Compliance History

DMR Data for Outfall 001 (from August 1, 2023, to July 31, 2024)

Parameter	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23	OCT-23	SEP-23	AUG-23
Flow (MGD) Average Monthly				0.0291	0.0334	0.0328	0.0346	0.0375				
Flow (MGD) Daily Maximum				0.0422	0.0466	0.0493	0.0544	0.0896				
pH (S.U.) Minimum				6.11	7.1	7.1	6.22	7.08				
pH (S.U.) Maximum				7.4	7.71	7.45	7.1	7.2				
DO (mg/L) Minimum				8.77	9.1	9.1	8.8	9.9				
CBOD5 (mg/L) Average Monthly				< 3.0	< 3.0	4.0	< 3.0	< 3.0				
TSS (mg/L) Average Monthly				6.0	5.0	6.0	10.0	35.0				
Fecal Coliform (CFU/100 ml) Geometric Mean				2.0	< 2.0	2.0	2.0	< 2.0				
Fecal Coliform (CFU/100 ml) Instantaneous Maximum				2.0	< 2.0	2.0	< 2.0	2.0				
Nitrate-Nitrite (mg/L) Average Monthly				8.65	7.91	7.84	13.06	7.85				
Ammonia (mg/L) Average Monthly				1.0	< 1.00	7.86	< 1.0	< 1.0				
Total Phosphorus (mg/L) Average Monthly				1.87	0.62	1.89	0.59	1.91				



### Development of Effluent Limitations

Outfall No. 001  
Latitude 41° 23' 28.00"  
Wastewater Description: Sewage Effluent

Design Flow (MGD) .0484  
Longitude -75° 4' 44.00"

#### 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 <sub>5</sub>	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
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)
Fecal Coliform (5/1 – 9/30)	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)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)

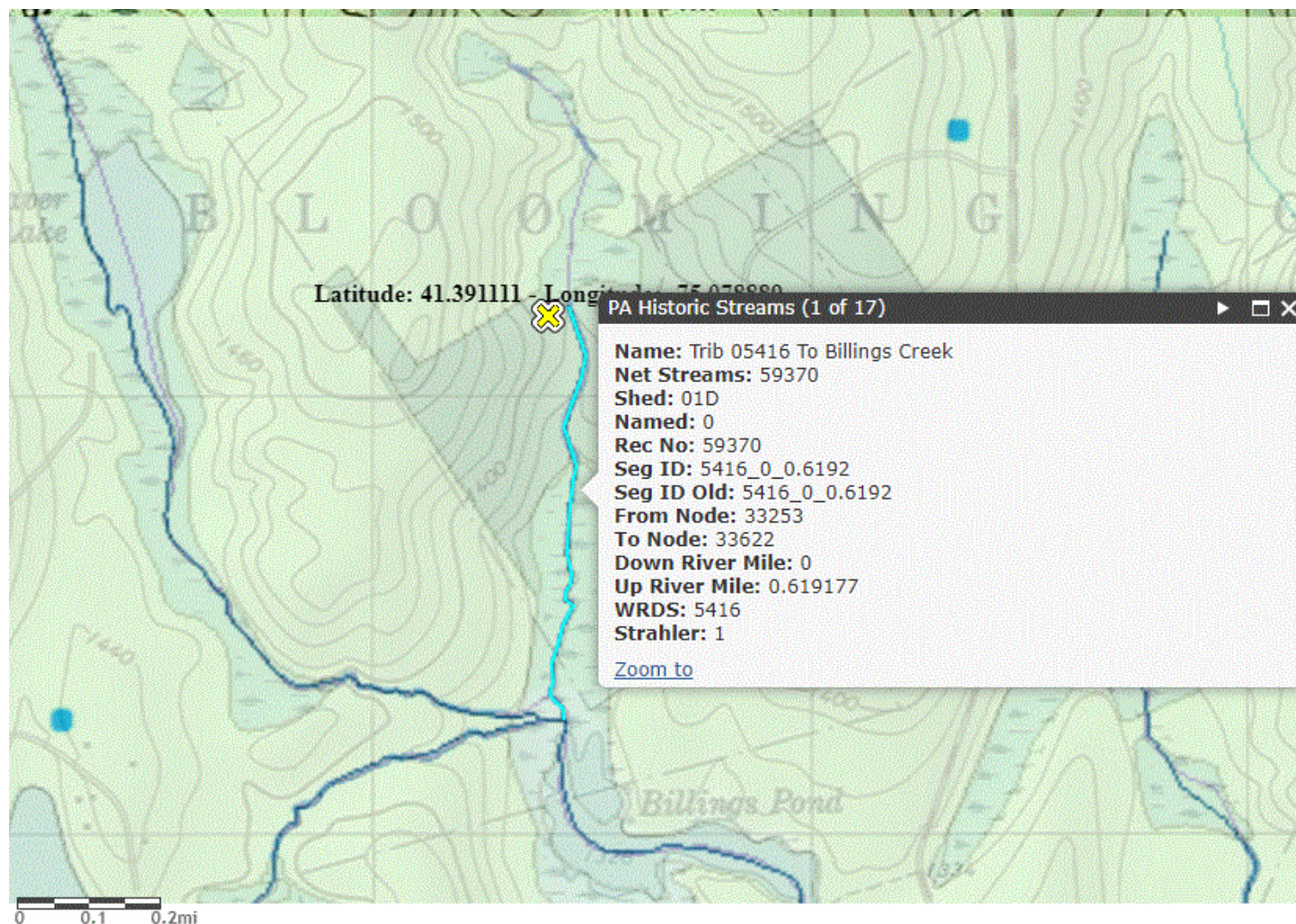
#### Water Quality-Based Limitations

WQM 7.1 Model recommended more stringent limit for Ammonia Nitrogen (NH<sub>3</sub>-N) of (AM =1.7; IMAX= 3.4 mg/L)

eDMR record for last past 04 years showing the permittee is able to meet this new limit more than 75% of the time. According to standard operating (SOP) the new limit will be effective at the permit effective date.

#### WQM 7.0 Effluent Limits

SWP Basin		Stream Code		Stream Name			
01D		5416		Trib 05416 to Billings Creek			
RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
0.450	pike county fac	PA0062863	0.000	CBOD <sub>5</sub>	25		
				NH <sub>3</sub> -N	1.7	3.4	
				Dissolved Oxygen			6



WQM Model results  
for Pike County NPD