

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

## NPDES PERMIT FACT SHEET INDIVIDUAL SRSTP

Application No. PA0065196  
APS ID 1100500  
Authorization ID 1485029

### Applicant, Facility and Project Information

Applicant Name <u>Styer Michele &amp; Rocky</u>	Facility Name <u>5160 Shimerville Rd Emmaus</u>
Applicant Address <u>5160 Shimerville Road</u> <u>Emmaus, PA 18049-4958</u>	Facility Address <u>5160 Shimerville Road</u> <u>Emmaus, PA 18049-4958</u>
Applicant Contact <u>Michele Styer</u>	Facility Contact <u>Michele Styer</u>
Applicant Phone <u>(610) 533-6492</u>	Facility Phone <u>(610) 533-6492</u>
Client ID <u>380888</u>	Site ID <u>684981</u>
SIC Code <u>4952</u>	Municipality <u>Upper Milford Township</u>
SIC Description <u>Trans. &amp; Utilities - Sewerage Systems</u>	County <u>Lehigh</u>
Date Application Received <u>September 22, 2023</u>	WQM Required <u>N/A</u>
Date Application Accepted <u>May 15, 2024</u>	WQM App. No. <u></u>
Project Description <u>Permit application to discharge treated sewage.</u>	

### Summary of Review

The permittee is requesting a new (renewal) NPDES permit to discharge 500gpd treated sewage effluent to Leibert Creek, a HQ-CWF (High Quality-Cold Water Fishes) receiving stream located in state water basin 2C (Lower Lehigh 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 existing facility consists of a 1500gal 2-chamber septic tank with a Zabel effluent filter, a peat bio-filter tank, and exits through outlet UV disinfection systems. There are no upgrades scheduled during this next permit period.

A standard low flow yield (LFY) of 0.1 cfs/mi<sup>2</sup> 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. Stream flow, Q7-10 for modeling purposes is 0.13cfs and was found by multiplying the drainage area (1.3mi<sup>2</sup>) by the LFY.

The most stringent of the limitations in the PAG-04 general permit, water quality modeling, and antidegradation ABACT limitations are included in this permit (see table below). A note is added under the Part A effluent limitation table requiring the samples for Fecal Coliform and Ammonia-Nitrogen to be taken between June 1 and August 31 each year. The treatment plant will utilize ultraviolet light for disinfection so the sampling frequency for TRC is "daily when discharging". The permittee will have to sample for TRC only when using chlorine for cleaning the treatment system or if utilizing chlorine for back-up disinfection (see Part C.I.D.). As per ABACT standards, TRC must not be detected in the effluent. The maximum QL used to analyze TRC must be 0.02 mg/L. Part C.II includes specific sampling requirements for TRC. Part C. III includes a requirement for monthly cleaning of the UV bulb contact surface. In addition to the annual average Fecal Coliform limitation below, an IMAX of 1,000 No./100mL is included in the permit.

Approve	Deny	Signatures	Date
X		William Hon (s) William Hon/ Environmental Engineer Trainee	<del>July 31</del> September 30, 2024
<u>X</u>		<u>Amy M. Bellanca (signed)</u> <u>Amy M. Bellanca, P.E. / Acting Engineer Manager</u>	<u>10-1-24</u>

Summary of Review

Parameter	Monthly Average Limitations		
	ABACT (< 2,000 gpd)	Modeling	PAG-04 Permit
CBOD5 (5/1-10/31)	10.0	25.0	-
CBOD5 (11/1 – 4/30)	20.0	25.0	-
BOD5	-	-	10.0
Total Suspended Solids	20.0	30.0	10.0
NH3-N (5/1 – 10/31)	5.0	25.0	-
NH3-N (11/1 – 4/30)	15.0	Report	-
Total Residual Chlorine	< 0.02 / ND	0.5	Report
pH (standard units)	-	6.0 – 9.0	6.0 – 9.0
Fecal Coliform	-	200 / 2000	200

Due to miscommunication from one owner to another, the NOI for this renewal was not submitted on time. The previous permit expired on May 31, 2023. The renewal application was submitted on September 22, 2023. Because of this, a new permit application with a new fee was required. The new permit application was accepted on May 15, 2024.

The Annual Maintenance Report (AMR) that's to be issued with the final permit shall be used to record the monitoring results. Discharge Monitoring Reports (DMRs) will not be sent will the final permit. EPA wavier is in effect.

The last inspection at this facility took place on June 9, 2023, with 2 NOV's reported. The NOV's were linked to the permittee not submitting the permit application in time. There are currently no open violations that should warrant the withholding of this permit. Recommend approval.

Modeling Information:

Pt.1 @ Outfall RMI 4.39

Clicked Point (Latitude, Longitude):

Time:

40.49717, -75.52202

2024-07-31 14:37:26 -0400

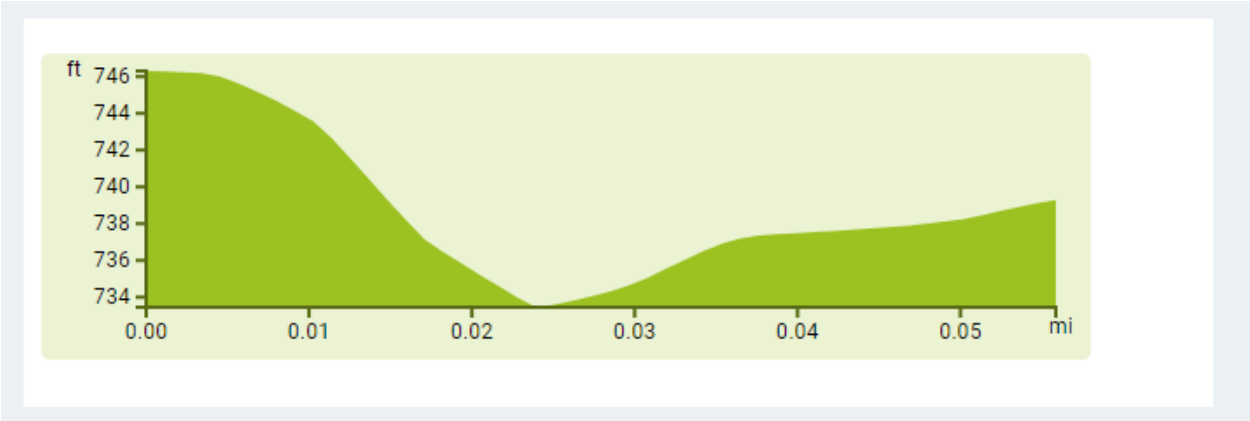


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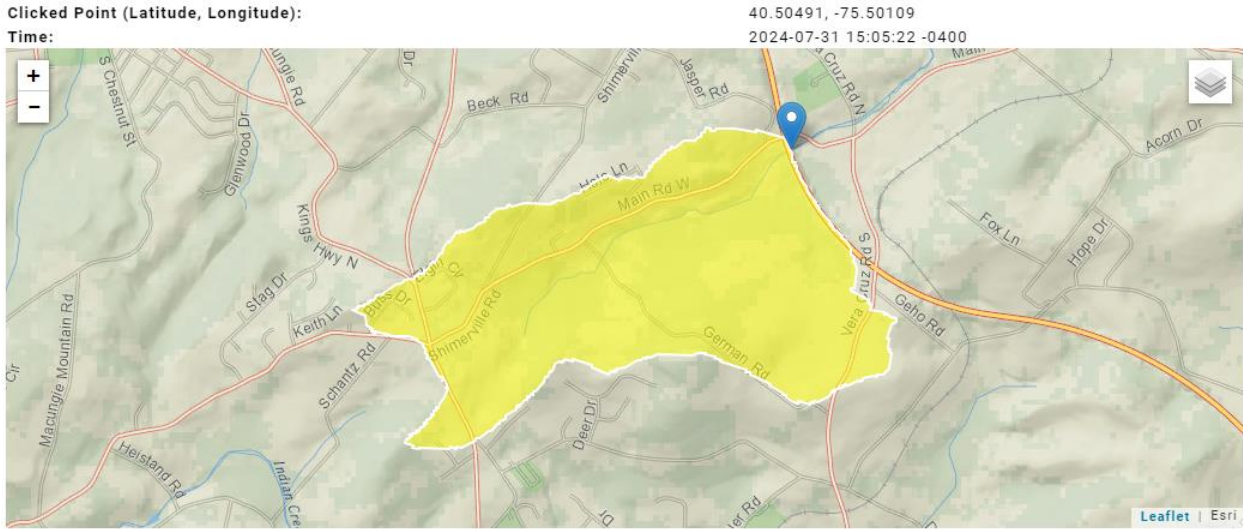
Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
BSLOPD	Mean basin slope measured in degrees	2.5685	degrees
CARBON	Percentage of area of carbonate rock	0	percent
DRNAREA	Area that drains to a point on a stream	0.13	square miles

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Pt. 2 Approx 1.5miles from Outfall  
RMI: 2.854

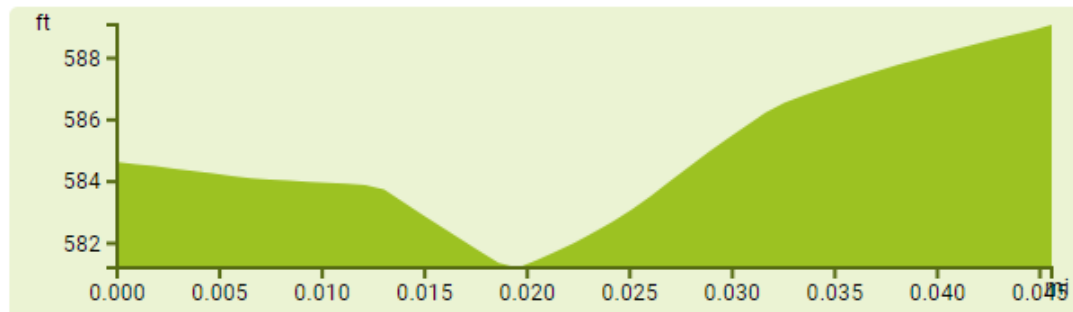


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Basin Characteristics

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	1.3	square miles

### 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)
4.39	M Styer	PA0065196	0.0005

Parameter	Effluent Limit 30 Day Average (mg/L)	Effluent Limit Maximum (mg/L)	Effluent Limit Minimum (mg/L)
CBOD5	25		
NH3-N	25	50	
Dissolved Oxygen			3

Record: 1 of 1   No Filter   Search

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### 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

Summary of Review

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.

