

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

**NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP**

Application No. PA0065315
APS ID 1011026
Authorization ID 1375061

Applicant, Facility and Project Information

Applicant Name	<u>Weideman Robert W</u>	Facility Name	<u>Weideman Robert SRSTP</u>
Applicant Address	<u>4279 Chestnut Drive</u> <u>Walnutport, PA 18088-9691</u>	Facility Address	<u>4279 Chestnut Drive</u> <u>Walnutport, PA 18088-9691</u>
Applicant Contact	<u>Robert Weideman</u>	Facility Contact	<u>Robert Weideman</u>
Applicant Phone	<u>(610) 248-0853</u>	Facility Phone	<u>(610) 248-0853</u>
Client ID	<u>355037</u>	Site ID	<u>726632</u>
SIC Code	<u>4952</u>	Municipality	<u>Lehigh Township</u>
SIC Description	<u>Trans. & Utilities - Sewerage Systems</u>	County	<u>Northampton</u>
Date Application Received	<u>October 29, 2021</u>	WQM Required	<u>-</u>
Date Application Accepted	<u>August 15, 2022</u>	WQM App. No.	<u>-</u>
Project Description	<u>Application for renewal of NPDES permit to discharge from single resident sewage treatment plant</u>		

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge 500 GPD of treated sewage from a single residence sewage treatment plant (SRSTP) to tributary 3727 of the Lehigh River, a Cold Water Fishery, Migratory Fishery-designated (CWF, MF) receiving stream in state water plan basin 2-C (Lower Lehigh River). As per the Department's current existing use list, the receiving stream does not have an existing use that is more protective than its designated use.

Treatment at this facility consists of a 1500 gallon dual-chamber septic tank, peat filter, UV light disinfection filter, and discharge pipe to receiving stream. According to the renewal application, UV light system should be serviced annually, and septic system should be pumped every three years. Documents included with the application indicate that the system was pumped in December of 2019.

Review of the most recently submitted annual monitoring report reveals that the client has been in compliance with effluent limitations. There are currently no open violations for this client. Additionally, an inspection was performed on 4/18/2022, and no violations were noted. As no changes are being proposed by the applicant over the course of the next five years, effluent limitations and monitoring requirements are retained from the previous permit. The previous permit contained effluent limitations for pH, BOD₅, Total suspended Solids, and Fecal coliform and included reporting the annual average for Flow. The limitations which are already being adhered to are as stringent as what is recommended in DEP technical guidance. It is not required that the applicant monitors Total Residual Chlorine as this site utilizes a UV disinfection system.

WQM 7.0 modeling was used to determine that water quality based effluent limits are not required. The effluent limitation for CBOD₅ generated by the model demonstrates that a more stringent limit for BOD₅ is not required. River mile index values were obtained from eMapPA, drainage areas were obtained from USGS Streamstats, and a low flow yield of 0.1 cfs/mi² was used due to the lack of stream gage data and a representative watershed with the minimum drainage area required to calculate. The flow at the nearest public water supply intake was determined using the default low flow yield and the drainage area at the point of intake.

Approve	Deny	Signatures	Date
X		<i>Rory Sgarlat</i> Rory Sgarlat, EIT / Environmental Engineering Specialist	August 19, 2022
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager	10-31-22

Summary of Review

The current permit expired on 4/30/2022, but the client was granted an administrative extension to operate this facility until a renewal permit is issued. Proposed effluent limitation and monitoring requirements are listed in the table on page 4 of this document.

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.



Watershed
Information 1.pdf



Watershed
Information 2.pdf



Water Quality
Modeling.pdf

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0005</u>
Latitude	<u>40° 44' 55.13"</u>	Longitude	<u>-75° 32' 37.02"</u>
Quad Name	<u>Cementon</u>	Quad Code	<u>1341</u>
Wastewater Description: <u>Sewage Effluent</u>			

Receiving Waters	<u>Unnamed Tributary of Lehigh River (CWF, MF)</u>	Stream Code	<u>3723</u>
NHD Com ID	<u>26293277</u>	RMI	<u>0.4300</u>
Drainage Area	<u>0.2 mi²</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.02</u>	Q ₇₋₁₀ Basis	<u>Default LFY</u>
Elevation (ft)	<u>625</u>	Slope (ft/ft)	<u>0.05</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>93.6 (using default LFY)</u>
PWS RMI	<u>24.7</u>	Distance from Outfall (mi)	<u>4.6</u>

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	2/year	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	1000	1/year	Grab

Compliance Sampling Location: Outfall 001