

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0259934
APS ID 964875
Authorization ID 1264701

Applicant, Facility and Project Information

Applicant Name	<u>Cynthia & Mark Perez</u>	Facility Name	<u>Perez Residence</u>
Applicant Address	<u>945 Swopes Valley Road</u> <u>Pine Grove, PA 17963-8405</u>	Facility Address	<u>945 Swopes Valley Road</u> <u>Pine Grove, PA 17963-8405</u>
Applicant Contact	<u>Mark Perez</u>	Facility Contact	<u>Mark Perez</u>
Applicant Phone	<u>(717) 215-7000</u>	Facility Phone	<u>(717) 215-7000</u>
Client ID	<u>342051</u>	Site ID	<u>674320</u>
SIC Code	<u>4952</u>	Municipality	<u>Bethel Township</u>
SIC Description	<u>Trans. & Utilities - Sewerage Systems</u>	County	<u>Lebanon</u>
Date Application Received	<u>February 27, 2019</u>	WQM Required	<u></u>
Date Application Accepted	<u>March 13, 2019</u>	WQM App. No.	<u></u>
Project Description	<u>Permit renewal for discharge of treated sewage</u>		

Summary of Review

1.0 General Discussion

This factsheet supports the renewal of an existing NPDES permit to discharge treated sewage from a small flow residential treatment facility that serves a 3-bedroom single family residence located at 429 Camp Strause Road, Fredericksburg, PA 17026. The facility has a design capacity of 0.0004 mgd and discharges to Bear Hole Run, which is classified for Cold Water Fishes (CWF) and Migratory Fishes (MF). The facility does not qualify for a general permit because the design deviates from DEPs small flow facility manual. A topographical map for the discharge location is presented in attachment A

1.1 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.

Approve	Deny	Signatures	Date
X		J. Pascal Kwedza, P.E. / Environmental Engineer	February 29, 2020
X		Daniel W. Martin, P.E. / Environmental Engineer Manager	April 28, 2020
X		Maria D. Bebenek, P.E./ Program Manager	April 28, 2020

1,2 Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0004</u>
Latitude	<u>40° 30' 52.21"</u>	Longitude	<u>-76° 28' 22.47"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Bear Hole Run (CWF, MF)</u>	Stream Code	<u>10012</u>
NHD Com ID	<u>56395345</u>	RMI	<u>0.86</u>
Drainage Area	<u>2.88 mi²</u>	Yield (cfs/mi ²)	<u>0.066 cfs/mi²</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.190 cfs</u>	Q ₇₋₁₀ Basis	<u>USGS StreamStats</u>
Elevation (ft)	<u>560 ft</u>	Slope (ft/ft)	<u>0.00</u>
Watershed No.	<u>7-D</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>Lebanon Water Authority</u>		
PWS Waters	<u>Swatara Creek</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u>13.4</u>

Changes Since Last Permit Issuance: None

1.3 Public Water Supply

The nearest downstream public water supply is the Lebanon Water Authority, located approximately 13.4 miles from the discharge point. Based on the quantity/quality of the discharge from this facility, the discharge is not expected to impact the water supply.

1.4 Stream Flow

Using the USGS PA StreamStats, stream flow was determined to be 0.190 ft³/s, which is consistent with stream flow from the previous water quality protection report. Although this is a very small stream, a Point of First Use (POFU) survey conducted on August 30, 2006 indicated that the POFU is located at the discharge point.

1.5 Treatment Facility

The treatment plant consists of two - compartment septic tank, gravity dose Peat Filter and chlorine contact tank

1.6. Compliance History

The permittee has been submitting the required monitoring reports regularly. TSS, CBOD5 and Fecal Coliform limits are within permit limits. TRC appeared to be generally within the recommended range. Proof that septic tank pumping occurred within the last 3-5 years was submitted with the renewal application. The facility was last inspected on 5/17/19. The inspection report indicates the facility is maintained and operated well.

1.7 Development of Permit Limits

DEPs Standard Operating Procedure (SOP) for the Clean Water Program indicates that in determining effluent limitations for a New and reissuance for Small Flow Treatment Facilities, Water quality modeling using PENTOXSD and/or WQM modeling will not be conducted, but the “TRC Spreadsheet” will be used to determine TRC limits for non-SRSTPs, unless UV disinfection is used or proposed. The SOP document that, effluent limitations and monitoring requirements listed on table 1, at a minimum, should be established in all new and renewed permits unless a written justification is provided in the fact sheet based on site-specific considerations such as TMDLs or anti-degradation. This facility has no unique site-specific considerations, effluent limits and monitoring requirement in the existing permit except TRC and Fecal Coliform follows those recommended in table 1 below and will be continued in the current renewal. TRC monitoring and Fecal Coliform limit will be revised to reflect the requirements on table 1 below.

Table 1

Parameter	Average Monthly	IMAX	Sample Type	Frequency
Flow (MGD)	Report	XXX	Estimate	1/year
TRC	Report	XXX	Grab	1/month
CBOD5	10	20	Grab	1/year
Total Suspended Solids	10	20	Grab	1/year
Fecal Coliform (CFU/100 ml)	200 Geo Mean		Grab	1/year

1.8 Chesapeake Bay

The facility will discharge less than 2000 gpd and is exempt from Bay nutrient evaluations and requirements

1.9 Anti-Degradation (93.4)

The effluent limits for this discharge have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected. No High-Quality Waters are impacted by this discharge. No Exceptional Value Waters are impacted by this discharge.

2.0 Class A Wild Trout Fisheries

No Class A Wild Trout Fisheries are impacted by this discharge.

2.1 303d Listed Streams

The discharge is not located on a 303d listed stream.

2.2 The following conditions are listed in Part C of the permit:

- Annual Maintenance Report Requirement
- Measurement requirement of depth of septage and scum in all treatment units
- Septic & Treatment tank pumping requirement
- Chlorine Minimization
- Prohibition of Stormwater Discharges
- Collected screenings and solids Handling
- Abandonment of the treatment facility for public sewers

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
TRC	XXX	XXX	XXX	Report Avg Mo	XXX	XXX	1/month	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	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001

Attachment

A. Topographical Map

