

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0267481
APS ID 1042287
Authorization ID 1360081

Applicant, Facility and Project Information

Applicant Name	<u>Amos E Stoltzfus</u>	Facility Name	<u>Stoltzfus SRSTP</u>
Applicant Address	<u>1651 Mountain Road</u> <u>Newburg, PA 17240-9123</u>	Facility Address	<u>1645 Mountain Road</u> <u>Newburg, PA 17240-9123</u>
Applicant Contact	<u>Amos Stoltzfus</u>	Facility Contact	<u>Amos Stoltzfus</u>
Applicant Phone	<u>(717) 331-8517</u>	Facility Phone	<u>(717) 331-8517</u>
Client ID	<u>318475</u>	Site ID	<u>631434</u>
SIC Code	<u>8800</u>	Municipality	<u>Upper Mifflin Township</u>
SIC Description	<u>Private Households</u>	County	<u>Cumberland</u>
Date Application Received	<u>June 29, 2021</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>July 13, 2021</u>	WQM App. No.	<u>2121402</u>
Project Description	<u>New NPDES Permit.</u>		

Summary of Review

This report supports the issuance of an NPDES permit for discharge of treated sewage from a new single residence sewage treatment plant (SRSTP) located in Montgomery Township, Franklin County. The WQM permit application is also received and the IRR has been prepared separately for the WQM permit.

Based on the review, it is recommended that the NPDES permit be drafted.

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		<i>Jinsu Kim</i> Jinsu Kim / Environmental Engineering Specialist	August 4, 2021
X		Maria D. Bebenek for Daniel W. Martin Daniel W. Martin, P.E. / Environmental Engineer Manager	August 4, 2021
X		Maria D. Bebenek Maria D. Bebenek, P.E. / Program Manager	August 4, 2021

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.0004
Latitude	40° 11' 15.08"	Longitude	-77° 32' 6.36"
Quad Name		Quad Code	
Wastewater Description: Treated Sewage			
Receiving Waters	Unnamed Tributary of Three Square Hollow Run (WWF, MF)	Stream Code	10495
NHD Com ID	56407901	RMI	0.6
Drainage Area	0.12	Yield (cfs/mi ²)	
Q7-10 Flow (cfs)	Unknown	Q7-10 Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No.	7-B	Chapter 93 Class.	
Existing Use	None	Existing Use Qualifier	None
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake	Carlisle Borough		
PWS Waters	Conodoguinet Creek	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	34

Drainage Area

The discharge will be to an Unnamed Tributary to Three Square Hollow Run at Licking Creek at RM 11.4. DEP's eMapPA does not show this stream but according to a POFU survey performed by DEP's biologist on May 4, 2002, the stream has been coded as 10459 under stream file 2.21.0. A drainage area upstream of the proposed discharge point is estimated to be 0.12 sq.mi. according to USGS StreamStats available at <https://streamstats.usgs.gov/ss/>.

Streamflow

USGS StreamStats does not provide a Q7-10 at the point of discharge as the drainage area and stream density are expected to be lower than the required values to calculate the low flows (see attachment).

Unnamed Tributary of Three Square Hollow Run

Under 25 Pa Code §93.9, the entire basin of Three Square Hollow Run is classified as warm water fishes and supports migratory fishes. No special protection water is therefore impacted by this discharge. No Class A Wild Trout Fishery will be impacted by this discharge. Based on DEP's 2020 integrated water quality report, then entire basin of Three Square Hollow Run is not impaired.

Public Water Supply Intake

Based on eMapPA, the nearest downstream public water supply intake is located near Carlisle Borough on the Conodoguinet Creek approximately 34 miles from the proposed discharge. Given the distance and nature, the proposed discharge is not expected to impact the water supply.

Compliance History

Summary of DMRs:	This is a new NPDES permit; therefore, no AMR is available for review.
Summary of Inspections:	There is no open violation associated with this facility or permittee.

Treatment Facility Summary

The proposed treatment system will be located in Upper Mifflin Township, Cumberland County (1645 Mountain Road Newburg, PA 17240). There is an existing system owned by Amos Stoltzfus right next to this new system (PA0247561). It appears the existing lot (1651 Mountain Road) has been subdivided. The proposed treatment system will serve a 3-bed room single family residence (400 GPD) and will be Ecoflo EC7 series system with an UV disinfection unit. The details of the proposed system are described in the Internal Review and Recommendation (IRR) report for the WQM permit application. The Official Act 537 Plan Revision was approved on May 6, 2021 (no. A3-21931-111-3S).

Development of Effluent Limitations and Monitoring Requirements

The proposed effluent limitations and monitoring requirements are derived from DEP's Standard Operating Procedure (SOP) for New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications (SOP No. BPNPSM-PMT-003).

On February 1, 2017, DEP classified the proposed system as an alternate on-lot sewage treatment system and required this system (if installed) to meet 10 mg/L CBOD5, and 10 mg/L TSS as monthly averages. (Alternate technology no. A2017-0029-0001).

Facilities that are designed based on a flow of less than 2,000 GPD or considered as SRSTPs are exempt from the Bay requirements. Accordingly, it is not necessary for the permittee to perform nutrient monito

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)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Annual Average	Daily Maximum	Minimum	Annual Average	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	1/year	Estimate
CBOD5	XXX	XXX	XXX	10	XXX	20	1/year	Grab
Total Suspended Solids	XXX	XXX	XXX	10	XXX	20	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab

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StreamStats

StreamStats Report

Region ID: PA
 Workspace ID: PA20210713141113660000
 Clicked Point (Latitude, Longitude): 40.18686, -77.53635
 Time: 2021-07-13 10:11:30 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.12	square miles
PRECIP	Mean Annual Precipitation	40	inches
STRDEN	Stream Density -- total length of streams divided by drainage area	0	miles per square mile
ROCKDEP	Depth to rock	4.1	feet
CARBON	Percentage of area of carbonate rock	0	percent

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StreamStats

Low-Flow Statistics Parameters [Low Flow Region 2]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.12	square miles	4.93	1280
PRECIP	Mean Annual Precipitation	40	inches	35	50.4
STRDEN	Stream Density	0	miles per square mile	0.51	3.1
ROCKDEP	Depth to Rock	4.1	feet	3.32	5.65
CARBON	Percent Carbonate	0	percent	0	99

Low-Flow Statistics Flow Report [Low Flow Region 2]

Statistic	Value	Unit
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Low-Flow Statistics Citations

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Application Version: 4.6.0

StreamStats Services Version: 1.2.22

NSS Services Version: 2.1.2