

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0265373
APS ID 1070319
Authorization ID 1408145

Applicant, Facility and Project Information

Applicant Name	<u>Andrew Artman</u>	Facility Name	<u>Andrew Artman SRSTP</u>
Applicant Address	<u>29 South Good Hope Road</u> <u>Greenville, PA 16125-8125</u>	Facility Address	<u>29 South Good Hope Road</u> <u>Greenville, PA 16125-8125</u>
Applicant Contact	<u>Andrew Artman</u>	Facility Contact	<u></u>
Applicant Phone	<u>(724) 813-3770</u>	Facility Phone	<u></u>
Client ID	<u>372121</u>	Site ID	<u>824451</u>
SIC Code	<u>8800</u>	Municipality	<u>West Salem Township</u>
SIC Description	<u>Private Households</u>	County	<u>Mercer</u>
Date Application Received	<u>August 24, 2022</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>December 22, 2022</u>	WQM App. No.	<u>4317409 T-1</u>
Project Description	<u>Renewal and Transfer for a Single Residence Sewage Treatment Plant</u>		

Summary of Review

Renewal Permit for a SRSTP consists of: A Norweco Singulair Model 960-500 aerobic unit consisting of a pretreatment chamber, an aeration chamber, and a final clarification chamber, a Norweco Hydro-Kinetic Biofilm Reactor followed by tablet chlorination in a 500-gallon chlorine contact tank all in series discharging to the point of discharge (drainage swale) located on an adjacent property (10' sanitary sewer easement).

Act 14 – Proof of Notification was submitted and received.

SPECIAL CONDITIONS: None.

The EPA Waiver is in effect.

There are NO open violations in WMS for the subject Client ID (372121) as of December 22, 2022

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		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer Trainee	December 22, 2022
X		Adam J. Pesek (Lead Reviewer) for Vacant / Environmental Engineer Manager	January 9, 2023

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0004</u>
Latitude	<u>41° 22' 24.10"</u>	Longitude	<u>-80° 24' 21.59"</u>
Quad Name	<u>Sharpsville</u>	Quad Code	<u>41080C4</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to the Shenango River</u>	Stream Code	<u>---</u>
NHD Com ID	<u>130034456</u>	RMI	<u>Approx. 56.62 of Shenango River</u>
Drainage Area	<u>0.00174</u>	Yield (cfs/mi ²)	<u>---</u>
Q ₇₋₁₀ Flow (cfs)	<u>0</u>	Q ₇₋₁₀ Basis	<u>Dry swale</u>
Elevation (ft)	<u>1113</u>	Slope (ft/ft)	<u>---</u>
Watershed No.	<u>20-A</u>	Chapter 93 Class.	<u>WWF</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>7.0</u>	Default	
Temperature (°C)	<u>25</u>	Default	
Hardness (mg/L)	<u>100</u>	Default	
Other:	<u></u>		
Nearest Downstream Public Water Supply Intake	<u>Reynolds Water Company Intake</u>		
PWS Waters	<u>Shenango River</u>	Flow at Intake (cfs)	<u>49.83</u>
PWS RMI	<u>55.72</u>	Distance from Outfall (mi)	<u>0.90*</u>

*Approximate distance from point where unnamed tributary reaches the Shenango River. Outfall is an additional distance of approximately 0.3 to 0.4 miles away from the Shenango River

Changes Since Last Permit Issuance: None

Other Comments: This SRSTP was designed where applicable in accordance with the SFTF Manual, but it does not qualify for the PAG-04 General Permit due to the use of a Norweco Singlair Model 960. The proposed discharge is to resolve a repair of a malfunctioning on-lot system.

The Norweco 960 is reportedly capable of meeting CBOD5 averages of 6 mg/l and TSS averages of 10 mg/l.

In accordance with the SOP, no water quality modeling was performed since this is a SRSTP

Compliance History

The following AMRs data submitted for reporting period June 2021 to June 2022

Effluent Monitoring Data													
Parameter	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
TRC (mg/L)	0.4	0.5	0.2	0.3	0.3	0.1	0.5	0.7	0.5	0.2	0.4	0.3	
UV													
BOD5 (mg/L)													4.0
pH (S.U.)													
TSS (mg/L)													5.0
Fecal Coliform (No./100 mL)													1.0
Flow (GPD)													

Other Comments

- Aerobic Tank inspected on April 30, 2021
- Chlorinator added on June 15, 2021
- Cleaning Norweco Filter was done on June 15, 2021
- Checking Aerator and Alarm done June 15, 2021
- Tank was pumped on April 30, 2021

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 (GPD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	Upon Request	Grab
TRC	XXX	XXX	XXX	Report Avg Mo	XXX	XXX	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001, after disinfection.

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD₅, Total Suspended Solids, and Fecal Coliform are technology-based on Chapter 92a.47. The limits for pH are technology-based on Chapter 93.7 and the monitoring frequency has been established as "upon request" due to WWF stream designation.

Outfall Location - eMap with Aerial Imagery

The screenshot displays the Pennsylvania eMapPA web application. The header includes the Pennsylvania Department of Environmental Protection logo and navigation links for PA State Agencies, Online Services, and state leadership. The main interface features a map with aerial imagery, a legend on the left, and a data popup window.

Legend:

- Regulated Facilities and Related Information
- Streams and Water Resources
 - Water Quality
 - Designated Use Streams
 - Cold Water Fish
 - Exceptional Value
 - High Quality
 - Trout Stocking
 - Warm Water Fish
 - Overlap
 - Missing from CH93
- Boundaries
 - County Boundaries
 - Municipalities

Map Interface:

- Map: ESRI Streets & Imagery (selected), Topographic, National Geographic
- Layers: Streets, Imagery
- Map Tools: Search, Home, Previous View, Next View, Full Screen, Print, Info, Help
- Map Scale: 0, 300, 600ft
- Map Coordinates: Latitude: 41.373361, Longitude: -80.405997

Designated Use Streams (1 of 4) Popup:

- Designated Use Gen ID: 25641
- GNIS Name: Shenango River
- GNIS ID: 01046180
- ReachCode: 05030102000106
- COMID: 130034456
- Length Miles: 0.179
- Map Symbology: WWF
- Length Miles: 0.179
- Designated Use: 12
- DES Use ID: 8
- Use Description: WWF(WARM WATER FISHES)
- Migratory_Fish: N
- HUC: 05030102
- Basin: N
- Basin Narrative: Null
- Segment Narrative: Null
- Evaluation Date: Null
- Last Edit Date: 12/28/2005 3:22:31 PM
- Zoom to

Locate Latitude and Longitude:

- Decimal Degrees (selected), DD/MM/SS
- Latitude: 41 Degrees, 22 Minutes, 24.1 Seconds
- Longitude: -80 Degrees, 24 Minutes, 21.59 Seconds
- Buttons: Locate, Close

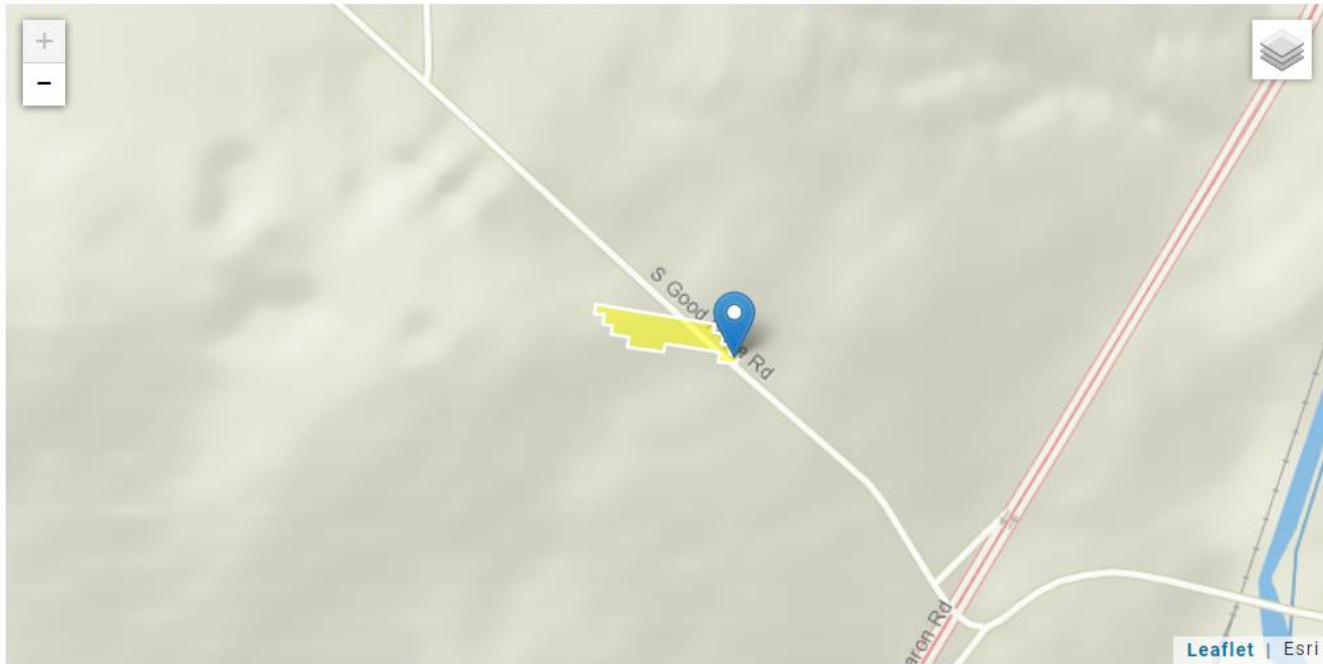
Footer:

Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESRI Streets: Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

Drainage Area Location – StreamStats with Aerial Imagery

StreamStats Report

Region ID: PA
Workspace ID: PA20221222203127413000
Clicked Point (Latitude, Longitude): 41.37294, -80.40627
Time: 2022-12-22 15:31:50 -0500



[+ Collapse All](#)

> Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.00174	square miles