

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0272493
APS ID 1000206
Authorization ID 1285247

Applicant, Facility and Project Information

Applicant Name	<u>Randy Corosu</u>	Facility Name	<u>Randy Corosu SRSTP</u>
Applicant Address	<u>11516 Five Points Road</u> <u>Home, PA 15747</u>	Facility Address	<u>11516 Five Points Road</u> <u>Home, PA 15747</u>
Applicant Contact	<u>Randy Corosu</u>	Facility Contact	<u>Randy Corosu</u>
Applicant Phone	<u>(724) 549-7673</u>	Facility Phone	<u>(724) 549-7673</u>
Client ID	<u>351980</u>	Site ID	<u>837304</u>
SIC Code	<u>8800</u>	Municipality	<u>Washington Township</u>
SIC Description	<u>Private Households</u>	County	<u>Indiana</u>
Date Application Received	<u>August 26, 2019</u>	WQM Required	<u>Yes, WQM Permit No. 3219402</u>
Date Application Accepted	<u>September 5, 2019</u>	WQM App. No.	<u>3219402</u>
Project Description	<u>Single Residence Sewage Treatment Plant</u>		

Summary of Review

This is a new discharge for an existing 3-bedroom home due to a repair of an existing malfunctioning on-lot system.

Act 14 – Proof of Notification was submitted and received.

The applicant should be able to meet the limits of this permit, which will protect the uses of the receiving stream.

I. OTHER REQUIREMENTS

- | | |
|---|---------------------------------|
| A. AMRs | F. Stormwater into Sewers |
| B. DMRs | G. Right of Way |
| C. Depth of Septage and Scum Management | H. Solids Handling |
| D. Septic Tank Pumping | I. Public Sewerage Availability |
| E. Chlorine Optimization | |

SPECIAL CONDITIONS: None.

Proposed treatment will consist of (WQM Permit No. 3219402): A Norweco Model 960 unit followed by a Norweco Biofilm Reactor and a Ultraviolet (UV) light disinfection unit.

The EPA Waiver is in effect.

There are no open violations in WMS for the subject Client ID (351980) as of 9/5/2019.

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		Justin C. Dickey, P.E. / Environmental Engineer Manager	
X		John A. Holden, P.E. / Environmental Program Manager	

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.0004
Latitude	40° 45' 33.36"	Longitude	-79° 8' 44.72"
Quad Name	Plumville	Quad Code	40079G2
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary to South Branch Plum Creek (HQ-CWF)	Stream Code	46636
NHD Com ID	123851608	RMI	0.1700
Drainage Area	2.35 sq. mi. (StreamStats)	Yield (cfs/mi ²)	0.1
Q ₇₋₁₀ Flow (cfs)	0.235	Q ₇₋₁₀ Basis	Default
Elevation (ft)	1104 (Google Earth)	Slope (ft/ft)	---
Watershed No.	17E	Chapter 93 Class.	HQ - CWF
Existing Use	---	Existing Use Qualifier	---
Exceptions to Use	---	Exceptions to Criteria	---
Assessment Status	Impaired		
Cause(s) of Impairment	Habitat Alterations, Organic Enrichment/Low D.O., SILTATION		
Source(s) of Impairment	On-Site Treatment Systems (Septic Systems and Similar Decentralized Systems), Removal Of Riparian Vegetation, Streambank Modifications/Destabilization		
TMDL Status	Final, Final	Name	Crooked Creek Watershed ,South Branch Plum Creek TMDL
Nearest Downstream Public Water Supply Intake	Buffalo Township Municipal Authority at Freeport		
PWS Waters	Allegheny River	Flow at Intake (cfs)	2,390 * See Calculations Below
PWS RMI	29.4	Distance from Outfall (mi)	46.46 (approximate)

Changes Since Last Permit Issuance: N/A – This is a proposed discharge (Planning was approved on August 23, 2019)

Other Comments: PWS – Allegheny River Flow Calculations:

USGS 03049500 – Allegheny River @ Natrona, PA (4/1966-3/2008*) – Q_{7,10} = 2,390 cfs; D.A. = 11,410 mi²;
* “Controlled_7_Day_10_Year_Low_Flow” data dates as identified on USGS – StreamStats report

USGS 03049500 – Allegheny River @ Natrona, PA (4/1939-3/1965*) – Q_{7,10} = 1,200 cfs; D.A. = 11,410 mi²;
Yield = 0.105 cfs/mi (yield rate prior to construction of the Kinzua Dam)

Flow will be subtracted between Natrona Gage and WTP using yield rate prior to construction of Kinzua Dam.

Q₇₋₁₀ at PWS = 2,390 cfs – [(11,410-11,200 mi)(0.105 cfs/mi)] = 2,367.95 cfs

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.

The discharge would be expected to improve stream conditions relative to the stream impairments due to the elimination of a malfunctioning on-site treatment system (septic system).

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	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, as a Regional policy, the monitoring frequency has been established as "1/month" due to High Quality (HQ) stream designation.

Attachment 1
eMap – Location Map / Receiving Stream Designation

The screenshot displays the Pennsylvania eMapPA web application interface. The top navigation bar includes the Pennsylvania Department of Environmental Protection logo and links for PA State Agencies, Online Services, and Governor Tom Wolf. The main map area shows a topographic view of a region with stream designations. A popup window titled "Designated Use Streams (1 of 3)" is open over a specific stream segment, displaying the following metadata:

Designated Use Gen ID:	20928
GNIS Name:	
GNIS ID:	
ReachCode:	05010006001652
COMID:	123851608
Length Miles:	0.713
Map Symbology:	HQ
Length Miles:	0.713
Designated Use:	5
DES Use ID:	4
Use Description:	HQ-CWF(HIGH QUALITY-COLD WATER FISHES)
Migratory_Fish:	N
HUC:	05010006
Basin:	N
Basin Narrative:	Null
Segment Narrative:	Null
Evaluation Date:	Null
Last Edit Date:	Null
Zoom to	

A "Locate Latitude and Longitude" dialog box is also visible, showing coordinates: Latitude: 40 Degrees, 45 Minutes, 33.36 Seconds; Longitude: -79 Degrees, 8 Minutes, 44.72 Seconds. The map interface includes a legend on the left with categories for Regulated Facilities, Water Quality, and Boundaries. The map toolbar at the top includes options for ESRI Streets & Imagery, Topographic, and National Geographic.

Attachment 2
Google Earth Imagery

