

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0293067  
APS ID 1085533  
Authorization ID 1434521

**Applicant, Facility and Project Information**

Applicant Name	<u>Jacob Guertin &amp; Sara Thompson</u>	Facility Name	<u>Jacob Guertin &amp; Sara Thompson SRSTP</u>
Applicant Address	<u>1215 Middle Street Pittsburgh, PA 15212-4838</u>	Facility Address	<u>Old Shades Beach Rd; Index #27-22-8-124 Harborcreek, PA 16421</u>
Applicant Contact	<u>Jacob Guertin</u>	Facility Contact	<u></u>
Applicant Phone	<u>(210) 563-9530</u>	Facility Phone	<u></u>
Applicant Email	<u>guertinhokie@gmail.com</u>		<u></u>
Client ID	<u>357763</u>	Site ID	<u>701265</u>
SIC Code	<u>8800</u>	Municipality	<u>Harborcreek Township</u>
SIC Description	<u>Private Households</u>	County	<u>Erie</u>
Date Application Received	<u>March 23, 2023</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>April 14, 2023</u>	WQM App. No.	<u>2523410</u>
Project Description	<u>Installation of a Small Flow Treatment Facility</u>		

**Summary of Review**

This is a new discharge for a proposed 2 bedrooms dwelling with proposed construction of a single residence sewage treatment plant. The sewage system will be designed to treat 400 GPD.

Proposed treatment will consist of (WQM Permit No. 2523410): A Premier Tech EC7-500-P-P Pack Coco Filter Unit, *with integral septic tank and* a preinstalled DiUV disinfection unit and a pump.

Act 537 *planning approval*, NPDES and WQM permits were previously issued in 2010 using a buried sand filter and chlorination however, this system was not installed, and this permit is to approve the redesign and the installation of the above system.

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 (357763) as of April 17, 2023 *4/17/2023 CWY*

Approve	Deny	Signatures	Date
X		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer Trainee	April 17, 2023
X		Chad W. Yurisc Chad W. Yurisc, P.E. / Environmental Engineer Manager	4/17/2023

**Summary of Review**

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.

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>.0004</u>
Latitude	<u>42° 11' 11.07"</u>	Longitude	<u>-79° 57' 47.02"</u>
Quad Name	<u>Harborcreek</u>	Quad Code	<u>42079B8</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Twelvemile Creek (CWF, MF)</u>	Stream Code	<u>62328</u>
NHD Com ID	<u>123923655</u>	RMI	<u>---</u>
Drainage Area	<u></u>	Yield (cfs/mi <sup>2</sup> )	<u></u>
Q <sub>7-10</sub> Flow (cfs)	<u>0</u>	Q <sub>7-10</sub> Basis	<u>Dry Ditch</u>
Elevation (ft)	<u>650</u>	Slope (ft/ft)	<u>---</u>
Watershed No.	<u>15-A</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>7</u>	Default	<u></u>
Temperature (°F)	<u>20</u>	Default	<u></u>
Hardness (mg/L)	<u>100</u>	Default	<u></u>
Other:	<u></u>		<u></u>
Nearest Downstream Public Water Supply Intake	<u>PA – Canadian International Boundary in Lake Erie</u>		
PWS Waters	<u>Lake Erie</u>	Flow at Intake (cfs)	<u>---</u>
PWS RMI	<u>---</u>	Distance from Outfall (mi)	<u>---</u>

Changes Since Last Permit Issuance: The system has been redesigned from a buried sand filter and chlorination to a Premier Tech EC7-500-P-P Pack Coco Filter Unit, a preinstalled DiUV disinfection unit and a pump.

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 Premier Tech EC7-500-P-P Pack Coco Filter Unit.

The Premier Tech EC7-500-P-P Pack Coco Filter is reportedly capable of meeting BOD5 averages of 10 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

**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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> 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
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, after UV Disinfection.

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD5, Total Suspended Solids are BPJ-based on the Department’s “Small Flow Treatment Facilities Manual.” Fecal Coliform are technology-based on Chapter 92a.47. The limits for pH are technology-based on Chapter 93.7.

**Outfall Location - eMap with Aerial Imagery**

The screenshot displays the Pennsylvania eMapPA web application interface. At the top, the Pennsylvania Department of Environmental Protection logo is on the left, and navigation links for PA State Agencies, Online Services, and state officials are on the right. The main interface includes a legend on the left, a map area in the center, and a data popup on the right.

**Legend:**

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

**Map Area:**

The map shows aerial imagery with a cyan line representing a stream. A popup window titled "Designated Use Streams (1 of 3)" is open over the stream, displaying the following details:

- Designated Use Gen ID: 23983
- GNIS Name:
- GNIS ID:
- ReachCode: 04120101005020
- COMID: 123923655
- Length Miles: 1.252
- Map Symbology: CWF
- Length Miles: 1.252
- Designated Use: 2
- DES Use ID: 1
- Use Description: CWF(COLD WATER FISHES)
- Migratory\_Fish: Y
- HUC: 04120101
- Basin: N
- Basin Narrative: Null
- Segment Narrative: Null
- Evaluation Date: Null
- Zoom to

**Locate Latitude and Longitude:**

DD/MM/SS  
 Latitude: 42 11 11.07  
 Longitude: -79 57 47.02

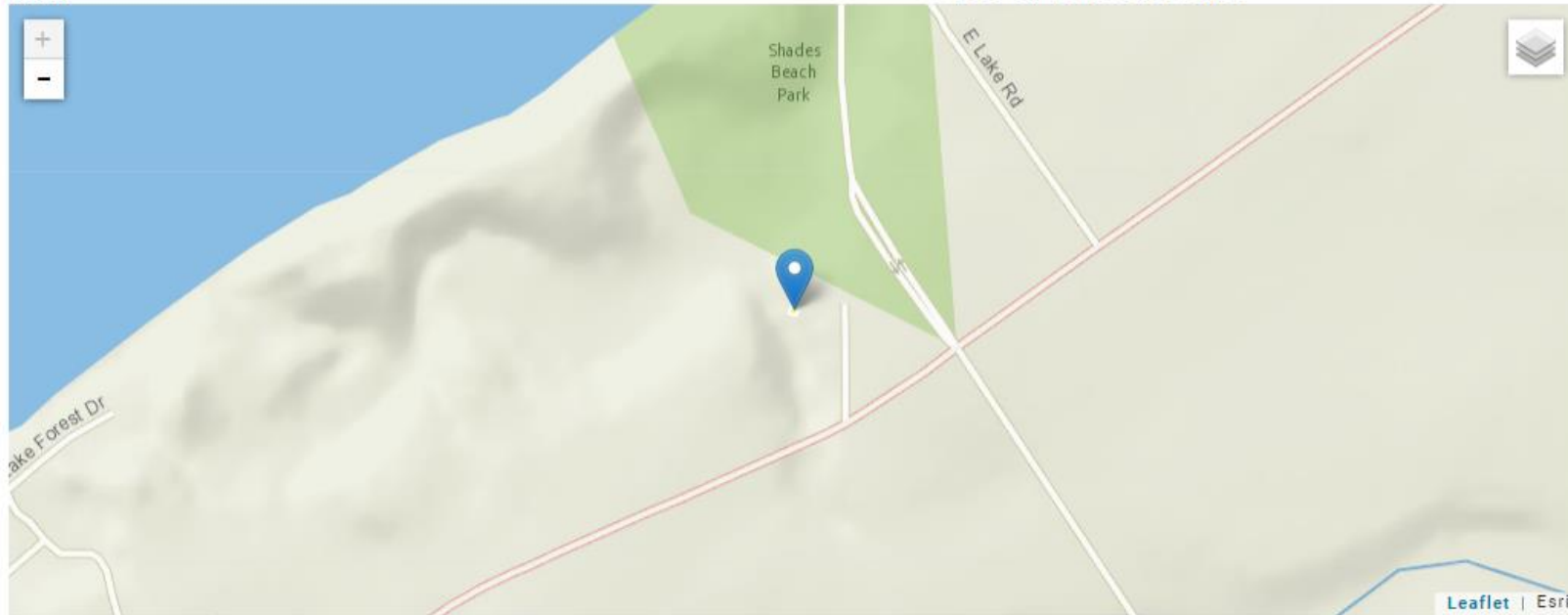
Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; ESRI Streets: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

**Drainage Area Location – StreamStats with Aerial Imagery**

StreamStats Report

Region ID:  
Workspace ID:  
Clicked Point (Latitude, Longitude):  
Time:

PA  
PA20230414195532245000  
42.18641, -79.96306  
2023-04-14 15:55:52 -0400



+ Collapse All

> Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.0000386	square miles