

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0296007
APS ID 1119640
Authorization ID 1495472

Applicant, Facility and Project Information

Applicant Name	<u>Keith English</u>	Facility Name	<u>Keith English SRSTP</u>
Applicant Address	<u>2148 Prospect Road</u> <u>Prospect, PA 16052-2020</u>	Facility Address	<u>2148 Prospect Road</u> <u>Prospect, PA 16052-2020</u>
Applicant Contact	<u>Keith English</u>	Facility Contact	<u></u>
Applicant Phone	<u>(254) 368-8442</u>	Facility Phone	<u></u>
Client ID	<u>387636</u>	Site ID	<u>871644</u>
SIC Code	<u>8800</u>	Municipality	<u>Franklin Township</u>
SIC Description	<u>Private Households</u>	County	<u>Butler</u>
Date Application Received	<u>August 15, 2024</u>	WQM Required	<u>Yes – Application Received.</u>
Date Application Accepted	<u></u>	WQM App. No.	<u>1024411</u>

Project Description This is an application for a new Single Residence Sewage Treatment Plant (SRSTP) which will serve an existing 3-bedroom home.

Summary of Review

This will be a newly permitted discharge which will serve an existing 3-bedroom home and originally replaced the malfunctioning on-lot disposal system. The proposed treatment unit is currently installed at the residence. It is unclear how the facility got installed without DEP notification, but the Department will treat it as a new facility and begin the permitting process to get the facility in compliance.

Act 14 – Notifications were submitted and received.

Treatment of the facility will consist of (WQM Permit No. 1024411): Two existing 1,000-gallon concrete septic tanks which will remain in use, a Zabel A300 effluent filter and alarm will be installed at the outlet end of the septic tank closest to the coco filter. The existing EC7-500 Coco filter tank will be reused once the coco shavings are replaced with new shavings. From the coco filter tank the effluent will be directed to a new 1,000-gallon concrete dual compartment septic tank with a Norweco AT 1500 UV disinfection unit and pump in the second compartment.

There are no open violations in WMS for the subject Client ID (387636) as of 9/10/24.

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		Dustin Hargenrater Dustin Hargenrater / Civil Engineer (General)	September 10, 2024
		Vacant / Environmental Engineer Manager	Okay to Draft JCD 9/23/2024

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>40° 55' 53.99"</u>	Longitude	<u>-80° 3' 13.03"</u>
Quad Name	<u>Prospect</u>	Quad Code	<u>40080H1</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Muddy Creek (HQ-CWF)</u>	Stream Code	<u>34114</u>
NHD Com ID	<u>126217019</u>	RMI	<u>0.4000</u>
Drainage Area	<u>0.14</u>	Yield (cfs/mi ²)	<u>0.0057</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.0008</u>	Q ₇₋₁₀ Basis	<u>USGS - StreamStats</u>
Elevation (ft)	<u>1,412</u>	Slope (ft/ft)	<u>---</u>
Watershed No.	<u>20-C</u>	Chapter 93 Class.	<u>HQ-CWF</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	<u></u>
Temperature (°F)	<u>68</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>Pennsylvania American Water Co. – Ellwood City</u>		
PWS Waters	<u>Slippery Rock Creek</u>	Flow at Intake (cfs)	<u>53.1</u>
PWS RMI	<u>0.1</u>	Distance from Outfall (mi)	<u>22.2</u>

Changes Since Last Permit Issuance: None – This is a new discharge (Planning was approved on August 12, 2024)

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 the EC7 Treatment system.

The Coco filter system is reportedly capable of meeting CBOD5 averages of 10 mg/l and TSS averages of 10 mg/l.

In accordance with the SOP, no water quality monitoring was performed since this is an 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) ⁽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
CBOD5	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. *1/month pH monitoring established due to discharge being in a special protection (HQ) watershed. JCD*

Attachment 1
eMap – Location and Receiving Stream Data

The screenshot displays the eMap application interface. At the top, there are tabs for 'Map', 'eFacts Query', 'Advanced Query', and 'Filter Plant Source Search'. Below these are map style options: 'ESRI Streets & Imagery' (selected), 'Topographic', and 'National Geographic'. A toolbar contains navigation icons like zoom in, zoom out, home, and info. On the right, a 'Locate Latitude and Longitude' dialog box is open, showing 'DD/MM/SS' as the selected format. The latitude is 40 degrees, 55 minutes, and 53.99 seconds. The longitude is -80 degrees, 3 minutes, and 13.03 seconds. 'Locate' and 'Close' buttons are at the bottom of the dialog. The main map area shows a stream network in blue over a topographic background. A yellow 'X' marker is placed on a stream segment, with a popup window titled 'PA Historic Streams (1 of 6)' displaying the following data:

Name:	Trib 34114 Of Big Run
Net Streams:	88452
Shed:	20C
Named:	0
Rec No:	88452
Seg ID:	34114_0_0.3988
Seg ID Old:	34114_0_0.3988
From Node:	56032
To Node:	56304
Down River Mile:	0
Up River Mile:	0.398802
WRDS:	34114
Strahler:	1

The popup also includes a 'Zoom to' link. The map includes a scale bar (0 to 0.2 miles) and the ESRI logo. At the bottom, a copyright notice reads: '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'.

Attachment 2
Google Earth – Site Imagery

