

Application Type Renewal
Wastewater Type Sewage
Facility Type SFTF

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0104329
APS ID 1137105
Authorization ID 1526834

Applicant, Facility and Project Information

Applicant Name <u>US Acoe Pittsburgh District</u>	Facility Name <u>Big Bend Access Area</u>
Applicant Address <u>1205 Kinzua Road</u> <u>Warren, PA 16365-5599</u>	Facility Address <u>Kinzua Dam</u> <u>Warren, PA 16365-5599</u>
Applicant Contact <u>Douglas Helman</u>	Facility Contact <u>Douglas Helman</u>
Applicant Phone <u>(814) 726-1955</u>	Facility Phone <u>(814) 726-1955</u>
Client ID <u>5515</u>	Site ID <u>446216</u>
SIC Code <u>4952,9900,9999</u> Nonclassifiable Establishments,Public Admin. - Nonclassifiable Establishment,Trans. & Utilities - Sewerage Systems	Municipality <u>Mead Township</u>
SIC Description	County <u>Warren</u>
Date Application Received <u>May 2, 2025</u>	WQM Required <u>Previously issued – 6293401</u>
Date Application Accepted <u>May 14, 2025</u>	WQM App. No. _____
Project Description <u>Renewal application for Individual NPDES permit for a Small Flow Treatment Facility (SFTF)</u>	

Summary of Review

The permittee is applying for reissuance of Individual Permit No. PA0104329 which is set to expire on October 31, 2025. The existing discharges serves a recreation site/ overlook and discharges into the Allegheny River (WWF) below the Kinzua Dam and Allegheny National Fish Hatchery.

The existing facility consists of (6293401): 7,380-gallon septic tank, 5,610-square-foot subsurface sand filter, and is treated with calcium hypochlorite in a 300-gallon chlorine contact tank followed by sodium sulfite de-chlorination.

Act 14 notifications were submitted and received.

The eDMR report was reviewed along with AMR from 2023. The facility is meeting effluent limits and appears to be operating as designed. Effluent limits for TSS, CBOD5, and Fecal Coliform differ from SOP recommendations, however, are being retained since the facility was permitted before the publication of the SOP.

Upon previous coordination with USFWS regarding small flow treatment facilities (i.e., no impact due to instantaneous dilution) this permit application will not be coordinated with the USFWS related to threatened and endangered mussel species.

There are 23 open violations for the subject Client ID (5515) as of May 15, 2025. It is discussed in the cover letter that the final permit may not be issued unless the violations are resolved.

Approve	Deny	Signatures	Date
X		Carlee Wilson / Environmental Engineering Trainee	May 15, 2025
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	May 29, 2025

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.002
Latitude	41° 50' 19.14"	Longitude	-79° 0' 15.13"
Quad Name		Quad Code	
Wastewater Description: Sewage Effluent			
Receiving Waters	Allegheny River (WWF) and Allegheny River	Stream Code	42122
NHD Com ID	112373899	RMI	---
Drainage Area	2180	Yield (cfs/mi ²)	---
Q ₇₋₁₀ Flow (cfs)	177	Q ₇₋₁₀ Basis	USGS - StreamStats
Elevation (ft)	---	Slope (ft/ft)	---
Watershed No.	16-B	Chapter 93 Class.	---
Existing Use	---	Existing Use Qualifier	---
Exceptions to Use	---	Exceptions to Criteria	---
Assessment Status	Not Assessed		
Cause(s) of Impairment	MERCURY		
Source(s) of Impairment	SOURCE UNKNOWN		
TMDL Status	---	Name	---
Background/Ambient Data		Data Source	
pH (SU)	---		---
Temperature (°F)	---		---
Hardness (mg/L)	---		---
Other:	---		---
Nearest Downstream Public Water Supply Intake	Aqua Pa (Emlenton Water Company)		
PWS Waters	Allegheny River	Flow at Intake (cfs)	1250
PWS RMI	90.57	Distance from Outfall (mi)	103

Changes Since Last Permit Issuance: N/A

Other Comments:

This SFTF was designed where applicable in accordance with the SFTF Manual, but it does not qualify for coverage under the PAG-04 General due to the use of a septic tank and sand filter.

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.

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.

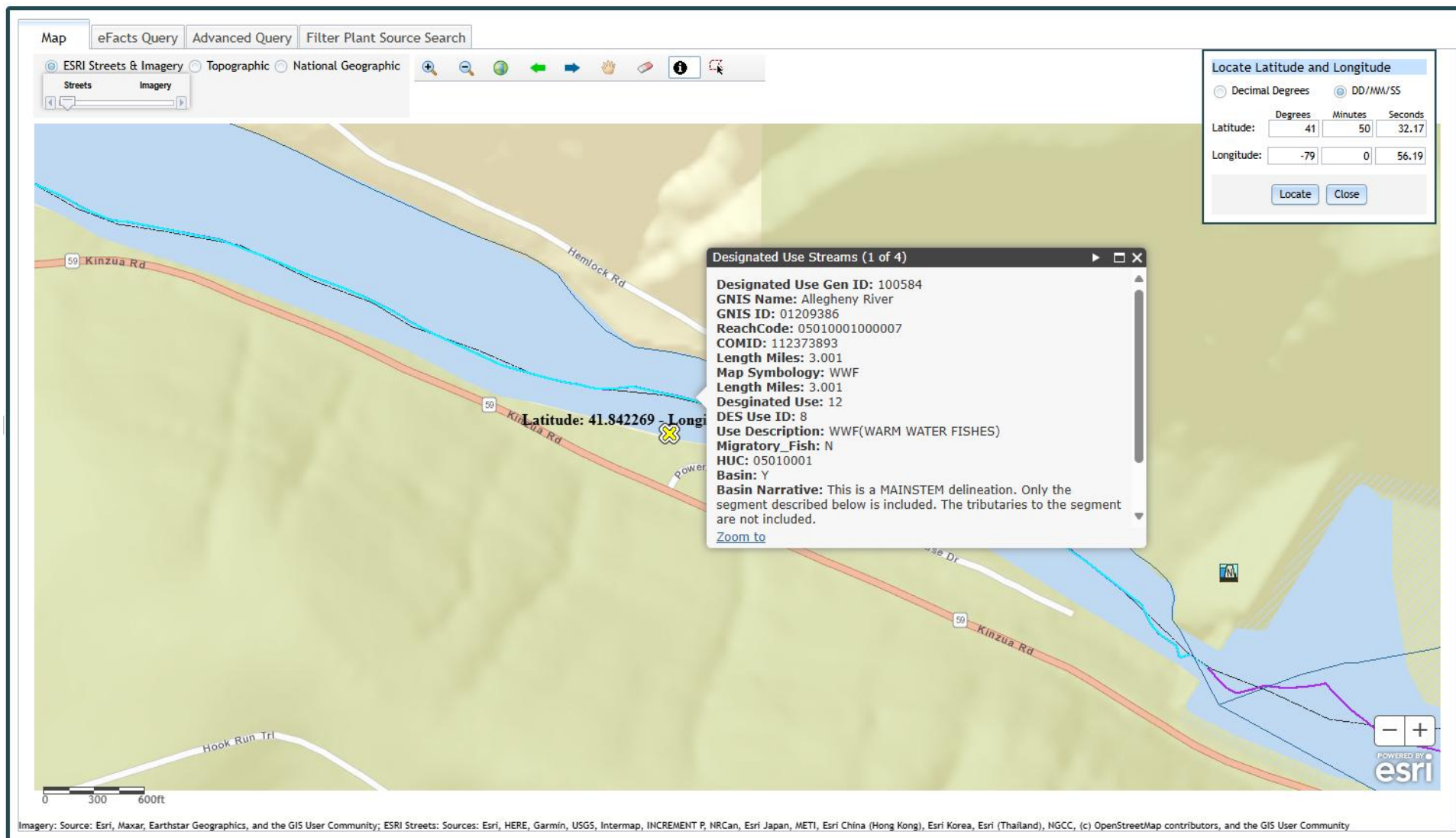
Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/month	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50.0	1/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60.0	1/month	Grab
Fecal Coliform (No./100 ml) Oct 1 – Apr 30	XXX	XXX	XXX	2000	XXX	10000	1/month	Grab
Fecal Coliform (No./100 ml) May 1 – Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/month	Grab

Compliance Sampling Location: Outfall 001 – after disinfection

Other Comments:

All effluent limits were retained from last permit cycle since the facility existed before the SOP - "Individual NPDES Small Flow Sewage Treatment Facility Applications" was published.

Attachment 1
eMapPA – Receiving Stream Location and Data



Attachment 2

Google Earth – Aerial Site View



TRC EVALUATION					
177	= Q stream (cfs)	0.5	= CV Daily		
0.002	= Q discharge (MGD)	0.5	= CV Hourly		
30	= no. samples	1	= AFC_Partial Mix Factor		
0.3	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor		
0	= Chlorine Demand of Discharge	15	= AFC_Criteria Compliance Time (min)		
0.5	= BAT/BPJ Value	720	= CFC_Criteria Compliance Time (min)		
	= %Factor of Safety (FOS)		=Decay Coefficient (K)		
Source	Reference	AFC Calculations		Reference	CFC Calculations
TRC	1.3.2.iii	WLA afc = 18249.211		1.3.2.iii	WLA cfc = #####
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373		5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 6800.091		5.1d	LTA_cfc = #####
Source	Effluent Limit Calculations				
PENTOXSD TRG	5.1f	AML MULT = 1.231			
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.500		BAT/BPJ	
		INST MAX LIMIT (mg/l) = 1.635			