

Application Type Renewal
 Facility Type Municipal
 Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0113514
 APS ID 1102468
 Authorization ID 1464704

Applicant and Facility Information

Applicant Name	<u>Madison Township Columbia County</u>	Facility Name	<u>Madison Township Hilner Sewer System STP</u>
Applicant Address	<u>PO Box 620</u> <u>Millville, PA 17846-0620</u>	Facility Address	<u>Intersection of Hump Road & Route 44N</u> <u>Bloomsburg, PA 17815</u>
Applicant Contact	<u>Robert Bower</u>	Facility Contact	<u>Robert Bower</u>
Applicant Phone	<u>(570) 204-2784</u>	Facility Phone	<u>(570) 458-0224</u>
Client ID	<u>120978</u>	Site ID	<u>4605</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Madison Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Columbia</u>
Date Application Received	<u>December 11, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>December 12, 2023</u>	If No, Reason	<u></u>
Purpose of Application	<u>Renewal of a NPDES Permit.</u>		

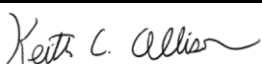

Summary of Review

The subject facility is a Small Flow Treatment Facility (SFTF) serving a small residential development in Madison Township, Columbia County. A map of the discharge location is attached.

Sludge use and disposal description and location(s): Septage is transferred by registered haulers to other permitted facilities for further processing.

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
✓		 Keith C. Allison / Project Manager	May 30, 2024
✓		 Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	May 31, 2024

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.00175</u>
Latitude	<u>41° 5' 45.93"</u>	Longitude	<u>-76° 35' 38.66"</u>
Quad Name	<u>Millville, PA</u>	Quad Code	<u>1033</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Mud Creek (WWF)</u>	Stream Code	<u>18798</u>
NHD Com ID	<u>66917413</u>	RMI	<u>2.4</u>
Drainage Area	<u>0.35 mi² (@ UNT 18798)</u>	Yield (cfs/mi ²)	<u>Undetermined</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.037 (@ UNT 18798)</u>	Q ₇₋₁₀ Basis	<u>USGS StreamStats</u>
Elevation (ft)	<u>686</u>	Slope (ft/ft)	<u>N/A</u>
Watershed No.	<u>10-D</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u>N/A</u>	Existing Use Qualifier	<u>N/A</u>
Exceptions to Use	<u>None</u>	Exceptions to Criteria	<u>None</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>ORGANIC ENRICHMENT, SILTATION</u>		
Source(s) of Impairment	<u>AGRICULTURE</u>		
TMDL Status	<u>Final</u>	Name	<u>Mud Creek Watershed TMDL</u>
Nearest Downstream Public Water Supply Intake	<u>Sunbury Municipal Authority</u>		
PWS Waters	<u>Susquehanna River</u>	Flow at Intake (cfs)	<u>1740</u>
PWS RMI	<u>124</u>	Distance from Outfall (mi)	<u>31</u>

Changes Since Last Permit Issuance:

Other Comments: The discharge is to a dry stream. The assumed Point of First Use (POFU) is downstream on the UNT to Mud Creek. Inspections have noted no problems in the receiving waters.

This SFTF discharge is not expected to contribute to the impairment to the Mud Creek Watershed. The discharge is not identified as receiving a wasteload allocation in the Mud Creek TMDL. The discharge consistently meets its TSS limits.

No downstream water supply is expected to be affected by the discharge with the limitations and monitoring proposed.

Treatment Facility Summary				
Treatment Facility Name: Madison Township SFTF				
WQM Permit No.	Issuance Date	Permit For:		
1990411	4/17/90	Construction and operation of treatment facility		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Septic Tank Sand Filter W/Sol Removal	Hypochlorite	0.00175
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.00175	-	Not Overloaded	-	Other WWTP

Changes Since Last Permit Issuance: None

Other Comments: Treatment as permitted under WQM Permit No. 1990411 consists of seven residential septic tanks, one dosing tank, one lined 22'x60' subsurface sand filter (1,320 ft²), erosion tablet chlorinator, and 350-gallon chlorine contact tank.

Compliance History

DMR Data for Outfall 001 (from April 1, 2023 to March 31, 2024)

Parameter	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23	OCT-23	SEP-23	AUG-23	JUL-23	JUN-23	MAY-23	APR-23
Flow (MGD) Average Monthly	0.001000	0.001	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001	0.001000	0.001000
pH (S.U.) Instantaneous Minimum	7.21	7.09	7.19	7.19	7.19	7.12	7.11	7.22	7.19	7.16	7.0	7.02
pH (S.U.) Instantaneous Maximum	7.48	7.51	7.51	7.44	7.43	7.44	7.36	7.46	7.42	7.5	7.36	7.27
TRC (mg/L) Average Monthly	0.39	0.37	0.36	0.40	0.38	0.38	0.38	0.34	0.33	0.33	0.32	0.29
TRC (mg/L) Instantaneous Maximum	0.53	0.56	0.5	0.61	0.51	0.49	0.51	0.51	0.48	0.45	0.42	0.44
CBOD5 (mg/L) Average Monthly	< 2.0	< 2.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	2.86	< 3.0	< 3.0	< 3.0	< 3.0
CBOD5 (mg/L) Instantaneous Maximum	< 2.0	2.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	2.86	< 3.0	< 3.0	< 3.0	< 3.0
TSS (mg/L) Average Monthly	< 5.0	5.0	< 2.0	7.05	< 5.0	< 5.0	< 5.0	< 5.0	< 4.0	< 4.0	< 1.6	< 1.6
TSS (mg/L) Instantaneous Maximum	< 5.0	5.0	< 2.0	7.05	< 5.0	< 5.0	< 5.0	< 5.0	< 4.0	< 4.0	< 1.6	< 1.6
Fecal Coliform (No./100 ml) Geometric Mean	8.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.48	17.3	< 1.0	< 1.0	< 1.0
Fecal Coliform (No./100 ml) Instantaneous Maximum	8.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.48	17.3	< 1.0	< 1.0	< 1.0

Compliance History, Cont'd

Compliance History, Cont'd	
Summary of Inspections:	The facility has been inspected periodically by the Department over the past permit term. The most recent inspection on March 22, 2024 identified no violations at the time of inspection.
Other Comments:	A query in WMS found no open violations in eFACTS for Madison Township, Columbia County.

Existing Effluent Limitations and Monitoring Requirements

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/week	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	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

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" (386-0400-001), 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/week	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	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

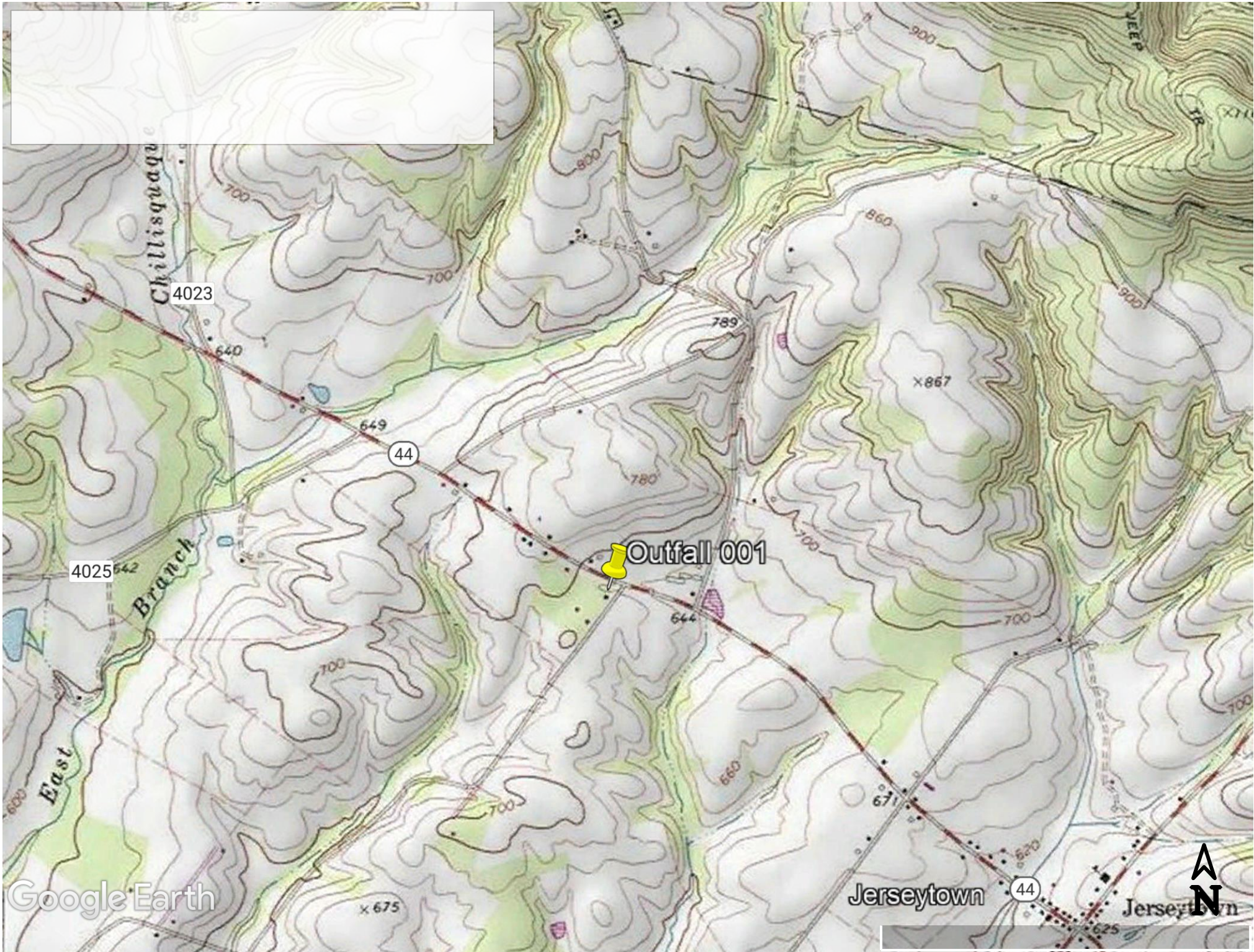
Compliance Sampling Location: Outfall 001

Other Comments: The above limits are typical for existing SFTFs and are protective of the receiving waters, and therefore, are unchanged.

No proposed limitations or monitoring have been made less stringent consistent with the Anti-Backsliding requirements of the Clean Water Act and 40 CFR 122.44(l).

Attachments:

- A. Discharge Location Map



Google Earth

