

Application Type Renewal
Facility Type Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0208612
APS ID 990754
Authorization ID 1268879

Applicant and Facility Information

Applicant Name	<u>Ridgebury Township</u>	Facility Name	<u>Ridgebury Township STP</u>
Applicant Address	<u>13278 Berwick Turnpike</u> <u>Gillett, PA 16925-9242</u>	Facility Address	<u>Pelton Place</u> <u>Gillette, PA 16925</u>
Applicant Contact	<u>Tammi Talada</u>	Facility Contact	<u></u>
Applicant Phone	<u>(570) 596-2731</u>	Facility Phone	<u></u>
Client ID	<u>67109</u>	Site ID	<u>263381</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Ridgebury Township</u>
Connection Status	<u>Self Imposed Connection Prohibition</u>	County	<u>Bradford</u>
Date Application Received	<u>April 5, 2019</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>April 16, 2019</u>	If No, Reason	<u></u>
Purpose of Application	<u>Renewal of existing NPDES permit</u>		

Summary of Review

The facility is a county owned 2000 gallon per day small flow system serving 11 homes in Ridgebury Township, Bradford County. The facility consists of 1500 gallon septic tank, two 1750 square feet intermittent sand filters, erosion tablet chlorination and 1500 gallon chlorine contact tank. The discharge is to a dry channel that drains to Bentley Creek.

Unless otherwise noted, all applicable Department Standard Operating Procedures (SOPs) were used during the review of this application.

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
		Chad A. Fabian / Project Manager	March 2, 2020
		Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.002
Latitude	41° 56' 54.07"	Longitude	-76° 42' 54.71"
Quad Name	Bentley Creek	Quad Code	0332
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary of Chemung River (WWF)	Stream Code	30878
NHD Com ID	48523544	RMI	5.16 @ Bentley Creek
Drainage Area	34.7 mi ² @ Bentley Creek	Yield (cfs/mi ²)	n/a
Q ₇₋₁₀ Flow (cfs)	0	Q ₇₋₁₀ Basis	n/a
Elevation (ft)	1010	Slope (ft/ft)	n/a
Watershed No.	4-B	Chapter 93 Class.	WWF
Existing Use	WWF	Existing Use Qualifier	n/a
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Attaining use		
Nearest Downstream Public Water Supply Intake		Considered to be the PA/NY state line approximately 3.2 miles downstream on Bentley Creek.	

Changes Since Last Permit Issuance: None

Treatment Facility Summary				
Treatment Facility Name: Ridgebury Township STP				
WQM Permit No.	Issuance Date	Permit		
0893405	Amended 12/8/2009	Amendment to limit design flow to 2000 gallons per day		
	Issued 6/17/1993	Original permit for septic tank and sand filter system		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Septic Tank Sand Filter	Hypochlorite	0.002
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.002	n/a	Not Overloaded	Anaerobic Digestion	Other WWTP

Changes Since Last Permit Issuance: None

Compliance History	
Summary of DMRs:	There have been a few effluent violations in the past year. These effluent violations are documented within this fact sheet in a table below. Despite the violations, it is recommended the permit be renewed.
Summary of Inspections:	An inspection was performed on 6/5/2019 by the Department. The inspection did not document any violations at the facility. No effluent violations occurred in the 12 month prior to the inspection. No signs of impact were noted at the outfall or downstream of the outfall.

Compliance History

Effluent Violations for Outfall 001, from: February 1, 2019 To: December 31, 2019

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
pH	09/30/19	Min	5.2	S.U.	6.0	S.U.
CBOD5	05/31/19	Avg Mo	< 12	mg/L	10	mg/L
CBOD5	11/30/19	Avg Mo	< 12	mg/L	10	mg/L
Fecal Coliform	08/31/19	Geo Mean	1986	CFU/100 ml	200	CFU/100 ml
Fecal Coliform	08/31/19	IMAX	1986	CFU/100 ml	1000	CFU/100 ml

The above CBOD₅ exceedances are due to the detection limit of 12 mg/l during the testing. Typically, the results for CBOD₅ at the facility are 3 mg/l or less.

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>.002</u>
Latitude <u>41° 56' 56.40"</u>	Longitude <u>-76° 42' 45.90"</u>
Wastewater Description: <u>Sewage Effluent</u>	

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD ₅	10	Average Monthly	These limitations were derived from an older version of the Department's intermittent and dry streams discharge manual.	
	20	Instant Max		
Total Suspended Solids	20	Average Monthly		
	40	Instant Max		
Ammonia (May 1- Oct. 31)	5	Average Monthly		
	10	Instant Max		
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform (5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

Comments: The existing TRC limitations are 1.0 mg/l (average monthly) and 2.3 mg/l (instantaneous max). Based on the review of the DMRs, the facility can meet the above technology standards without needing a compliance schedule.

Water Quality-Based Limitations

No evaluation of toxics or water quality based limitations are necessary since this facility is considered a residential small flow system (2000 gallons per day or less).

Dissolved oxygen monitoring is not required since the facility is a non-aerobic system.

Best Professional Judgment (BPJ) Limitations

None

Anti-Backsliding

There is no proposal to relax any of the existing limitations.

Existing Permit Limitations and Monitoring Frequencies

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	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/week	Grab
TRC	XXX	XXX	XXX	1.0	XXX	2.3	1/week	Grab
CBOD5	XXX	XXX	XXX	10	XXX	20	1/month	Grab
TSS	XXX	XXX	XXX	20	XXX	40	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
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	5	XXX	10	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" (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	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/week	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/week	Grab
CBOD5	XXX	XXX	XXX	10	XXX	20	1/month	Grab
TSS	XXX	XXX	XXX	20	XXX	40	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
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	5	XXX	10	1/month	Grab

Compliance Sampling Location: 001

It is recommended the permit be drafted as described above.