pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northeast Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0032115**
Facility Type	**Non-Municipal**	APS ID	**509177**
Major / Minor	**Minor**	Authorization ID	**1300231**

Applicant and Facility Information

Applicant Name	**PA DCNR**	Facility Name	**Ricketts Glen State Park Sewage Treatment Plant**
Applicant Address	695 State Route 487	Facility Address	695 State Route 487
	Benton, PA 17814		Benton, PA 17814-7505
Applicant Contact	Scott Wilson, Park Manager	Facility Contact	Scott Wilson, Park Manager
Applicant Phone	(570) 477-5675	Facility Phone	(570) 477-5675
Client ID	52524	Site ID	244081
Ch 94 Load Status	-	Municipality	Fairmount Township
Connection Status	-	County	Luzerne
Date Application Received	December 26, 2019	EPA Waived?	Yes
Date Application Accepted	December 30, 2019	If No, Reason	-

Purpose of Application: Renewal of existing NPDES permit to discharge treated sewage.

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.105 MGD of treated sewage into an Unnamed Tributary to Kitchen Creek, a High Quality, Cold-Water Fishery, Migratory Fish (HQ, CWF, MF) receiving stream in State Water Plan Basin 5-C (Susquehanna). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use. This stream segment is not designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. This discharge is not expected to affect public water supplies.

The latitude and longitude for Outfall 001 remains the same as previous permits, but the previous permit and the 1987 Pollution Report list Ganoga Glen as the receiving water. eMAP PA lists the receiving water as the Unnamed Tributary to Kitchen Creek. The name of the stream does not appear on Google Maps, Ricketts Glen State Park's maps, GIS on their website, or the topographic maps. However, the stream code (27869) remains the same regardless of the name.

Limitations for pH, $CBOD_5$, Total Suspended Solids (TSS), and Fecal Coliform are technology-based and carried over from the previous permit

Limitations for Dissolved Oxygen (DO) and Ammonia-Nitrogen are water quality-based and carried over from the previous permit. WQM 7.0 modeling did not recommend stricter limits.

The Total Residual Chlorine (TRC) Calculation Spreadsheet recommends a stricter monthly average limitation than the previous permit. The permittee will be required to meet the new water quality-based limit for TRC starting three years after the effective date of the permit. TRC limitations from the previously issued permit are in effect for the first three years after the permit effective date.

Approve	Deny	Signatures	Date
X		/s/ Allison Seyfried / Environmental Engineering Specialist	June 11, 2020
X		/s/ Amy M. Bellanca, P.E. / Environmental Engineer Manager	6-11-20

Summary of Review

pH, DO, and TRC have 1/day monitoring/reporting requirements between May 1 and September 30 and 3/week monitoring/ reporting requirements between October 1 and April 30 (as per agreement between DCNR and DEP Central Office).

Monitoring frequencies for all remaining parameters with limitations have been updated to the recommended frequencies found in Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations (Document No. 362-0400-001).

The annual monitoring and reporting for Total Nitrogen, Total Phosphorous, Total Kjeldahl Nitrogen, and Nitrate-Nitrite as N has been maintained in this permit.

There are no representative stream gages in the vicinity of the outfall and the drainage area at Outfall 001 is too small for USGS StreamStats to estimate accurate low flow values. Therefore, the default Low Flow Yield (LFY) of 0.1 cfs/mi^2 was chosen to model the discharge. For modeling inputs, RMI values were obtained using the "PA Historic Streams" feature of eMapPA, drainage areas were delineated using USGS's StreamStats Interactive Map, and elevations were obtained using the elevation profile feature of StreamStats.

As per the permittee, sludge at the treatment plant is hauled by Chapin Sewage Removal. The permittee is unsure where the hauler disposes of the waste.

The existing permit expires on June 30, 2020 and the application for renewal was received on time.

A Water Management System Inspection query indicated that on March 25, 2015 a Compliance Evaluation was performed.

There are currently 6 open violations in the Safe Drinking Water Program and one open violation in the Clean Water Program for this client. The open violation in the Clean Water Program may need to be resolved before issuance of the final permit:

1. 08/06/2019 - Facility: Frances Slocum State Park - Violation ID 863003 – Violation Code 92A.41(A)5 – NPDES-Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance (Program Specific ID: PA0032433).


Watershed Info - Ricketts Glen.pdf


TRC_CALC - Ricketts Glen.pdf


WQM 7.0 - Ricketts Glen.pdf


Pollution Report 1987.pdf

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, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.105
Latitude	41º 19' 59.81"	Longitude	-76º 17' 49.57"
Quad Name	Red Rock	Quad Code	0835
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary of Kitchen Creek (HQ-CWF, MF)	Stream Code	27869
NHD Com ID	65633335	RMI	1.67
Drainage Area	3.06 mi^2	Yield (cfs/mi^2)	0.1
Q_{7-10} Flow (cfs)	0.306	Q_{7-10} Basis	State-wide default
Elevation (ft)	2,203	Slope (ft/ft)	-
Watershed No.	5-C	Chapter 93 Class.	HQ-CWF, MF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Not Assessed		
Cause(s) of Impairment	-		
Source(s) of Impairment	-		
TMDL Status	-	Name	-
Nearest Downstream Public Water Supply Intake	United Water Pennsylvania - Bloomsburg		
PWS Waters	Fishing Creek	Flow at Intake (cfs)	-
PWS RMI	2.7	Distance from Outfall (mi)	~ 40

Treatment Facility Summary

Treatment Facility Name: Ricketts Glen State Park Sewage Treatment Plant

WQM Permit No.	Issuance Date
4014403	1/16/2015

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Aeration	Sodium Hypochlorite	0.0187 (2017-2019)

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.105	495	Not Overloaded	Digestor	Hauled

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.105
Latitude 41º 19' 59.86" **Longitude** -76º 17' 49.49"
Wastewater Description: Sewage Effluent

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
$CBOD_5$	25.0	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	50.0	IMAX	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	60.0	IMAX	133.102(b)(2)	92a.47(a)(2)
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)

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
Ammonia-Nitrogen Oct 1 - Apr 30	15.0	Average Monthly	1987 Pollution Report
	30.0	IMAX	
Ammonia-Nitrogen May 1 – Sep 30	5.0	Average Monthly	
	10.0	IMAX	
Dissolved Oxygen	7.0	Minimum	
Total Residual Chlorine	0.3	Average Monthly	TRC Calculation Spreadsheet
	0.8	IMAX	

Anti-Backsliding

No limitations were made less stringent.