pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northeast Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0061654**
Facility Type	**Non-Municipal**	APS ID	**822153**
Major / Minor	**Minor**	Authorization ID	**1283852**

Applicant and Facility Information

Applicant Name	**Wallenpaupack Area School District**	Facility Name	**Newfoundland Elementary School Wastewater Treatment Plant**
Applicant Address	2552 Route 6	Facility Address	Route 191
	Hawley, PA 18428-7045		Newfoundland, PA 18445
Applicant Contact	Michael Silsby, Superintendent	Facility Contact	David Scholtz, Operator
Applicant Phone	(570) 226-4557	Facility Phone	(570) 629-2981
Client ID	61898	Site ID	444449
Ch 94 Load Status	Not Overloaded	Municipality	Dreher Township
Connection Status	-	County	Wayne
Date Application Received	August 1, 2019	EPA Waived?	No
Date Application Accepted	August 13, 2019	If No, Reason	Lake Wallenpaupack TMDL WLA

Purpose of Application: Renewal of NPDES permit for discharge of treated sewage.

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.10 MGD of treated sewage into Wallenpaupack Creek, a High-Quality, Cold-Water Fishery, Migratory Fish (HQ-CWF, MF) receiving stream in State Water Plan Basin 1-C (Wallenpaupack Creek). 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 designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. This discharge is not expected to affect public water supplies.

The existing facility is built for 0.01 MGD, however, the facility has a 0.10 MGD planning approval and NPDES basis flow. The operator confirmed in a phone conversation that the facility would like to maintain the 0.10 MGD NPDES permit basis flow.

Limitations for pH, Fecal Coliform, Total Suspended Solids (TSS) – concentration, and Dissolved Oxygen (DO) are technology-based and carried over from the previous permit. Limitations for $CBOD_5$, Ammonia-Nitrogen, TSS – load, and Total Phosphorus are water quality-based and carried over from the previous permit.

As per PA Code 92a.47(a)(8) (which refers to PA Code 92a.48(b)(2)), a monthly average TRC facility-specific BAT effluent limit of 0.5 mg/L and an IMAX limit of 1.6 mg/L has been applied to this permit renewal. The TRC Calculation Spreadsheet did not recommend more stringent water quality-based limitations. eDMR data from March 2019 to February 2020 indicates that the facility is consistently under the 0.5 mg/L monthly average and 1.6 IMAX for TRC. Therefore, the new TRC technology-based limits will be applied at the permit effective date.

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

Approve	Deny	Signatures	Date
X		/s/ Allison Seyfried / Environmental Engineering Specialist	April 30, 2020
X		/s/ Amy M. Bellanca, P.E. / Environmental Engineer Manager	5-12-20

Summary of Review

The Lake Wallenpaupack Total Maximum Daily Load (TMDL) was approved by EPA on April 9, 2005 with a September 2007 addendum. A Waste Load Allocation (WLA) for Total Phosphorus exists for this facility at 0.5 mg/L concentration and total annual mass load of 69 kg/year (152 lbs/year). This is equivalent to 0.416 lbs/day. See requirements under Part C.I.F.

The TMDL also addresses Total Suspended Solids (TSS) and Mercury. No targets have been established for TSS, so the technology-based limitations apply. The TMDL also states that Mercury is assumed to originate outside the boundaries of the watershed because there are no point sources found in the Lake Wallenpaupack watershed. Mercury is a naturally occurring element which enters the atmosphere due to natural events and human activities. Distant and local sources of Mercury air emissions are expected to contribute a significant amount to the Mercury air deposition within the Lake Wallenpaupack watershed. Therefore, Mercury is not included as a parameter in this permit.

The latest DRBC Docket No. D-2009-027 CP-3 still requires the monitoring/reporting for 85% minimum $CBOD_5$ Percent Removal (at the same monitoring frequency as $CBOD_5$) and quarterly monitoring/ reporting for Total Dissolved Solids with a 1,000 mg/L limit. A twice per month influent $CBOD_5$ monitoring requirement is included in the permit to determine the removal efficiency. The DRBC Docket is for a discharge of 0.01 MGD.

Monitoring frequencies for all 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).

There are no representative stream gages in the vicinity of the outfall. The USGS StreamStats low flow yield (LFY) of 0.083 cfs/mi^2 and Q_{7-10} Flow of 2.42 cfs were used to model the discharge. RMI values were obtained using the Department's eMapPA, drainage areas were delineated using USGS's StreamStats interactive map, and elevations were obtained using the elevation profile tool on StreamStats.

As per the permittee's Sewage Sludge and Biosolids Supplemental Report forms, sludge is hauled to Pike County Res Recovery by Fenkner Septic.

The existing permit expired on January 31, 2020 and the application for renewal was received on time.

A Water Management System Inspection query indicated that February 26, 2018 a Compliance Evaluation was performed.

There are no open violations for this client that warrant withholding issuance of this permit.

Watershed Info - NewfoundlandWWT

WQM 7.0 - Newfoundland.pdf

TRC_CALC Newfoundland WW

DRBC Docket 2009-027 CP-3.pdf

LakeWallenpaupack TMDL.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)	0.10 (permitted) 0.01 (as-built)
Latitude	41º 18' 37.20"	Longitude	-75º 18' 50.93"
Quad Name	Newfoundland	Quad Code	0843
Wastewater Description:	Sewage Effluent		
Receiving Waters	Wallenpaupack Creek (HQ-CWF, MF)	Stream Code	5519
NHD Com ID	25933504	RMI	22.3
Drainage Area	29.1 mi^2	Yield (cfs/mi^2)	0.083
Q_{7-10} Flow (cfs)	2.42	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	1,300	Slope (ft/ft)	-
Watershed No.	1-C	Chapter 93 Class.	HQ-CWF, MF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	-		
Source(s) of Impairment	-		
TMDL Status	-	Name	Lake Wallenpaupack TMDL
Nearest Downstream Public Water Supply Intake	Easton Area Water System		
PWS Waters	Delaware River	Flow at Intake (cfs)	-
PWS RMI	110.4	Distance from Outfall (mi)	~ 128

Treatment Facility Summary

Treatment Facility Name: Newfoundland Elementary School WWTP

WQM Permit No.	Issuance Date
6487303	8/21/1987

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Hypochlorite	0.0037 (2016-2018)

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.01 (as-built) 0.10 (permitted)	17.51	Not Overloaded	Aerobic Sludge Digestion	Hauled

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.1
Latitude 41º 18' 37.35" **Longitude** -75º 18' 53.20"
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
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)
	1.6	IMAX		
Dissolved Oxygen	5.0	Minimum	-	BPJ

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
$CBOD_5$ (Nov 1- Apr 30)	25.0	Average Monthly	Previous Modeling
	50.0	IMAX	
	20.9 lbs/day	Average Monthly	
$CBOD_5$ (May 1 – Oct 31)	20.0	Average Monthly	
	40.0	IMAX	
	16.7 lbs/day	Average Monthly	
Ammonia-Nitrogen (Nov 1 - Apr 30)	9.0	Average Monthly	
	18.0	IMAX	
	7.5 lbs/day	Average Monthly	
Ammonia-Nitrogen (May 1 - Oct 31)	3.0	Average Monthly	
	6.0	IMAX	
	2.5 lbs/day	Average Monthly	
Total Suspended Solids	25.0 lbs/day	Average Monthly	
$CBOD_5$ Raw Sewage Influent	Report	Report	DRBC Docket D-2009-027 CP-3
CBOD20 Minimum % Removal	85%	Minimum Monthly Average	
Total Dissolved Solids	1,000	Average Quarterly	
	2,000	IMAX	
Total Phosphorus	0.5	Average Monthly	Lake Wallenpaupack TMDL
	1.0	IMAX	
	0.42 lbs/day	Average Monthly	
	152 lbs	Total Annual	

Anti-Backsliding

No limitations were made less stringent.