

Northeast Regional Office CLEAN WATER PROGRAM

Application Type
Renewal
NonFacility Type
Municipal
Major / Minor
Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. **PA0029190**APS ID **581410**

Authorization ID 1157232

Applicant and Facility Information				
Applicant Name	Monsignor McHugh School	Facility Name	Monsignor McHugh School WWTP	
Applicant Address	212 Route 390	Facility Address	Route 390	
	Cresco, PA 18326-7370		Cresco, PA 18326	
Applicant Contact	Kenneth Calemmo	Facility Contact	Kenneth Calemmo	
Applicant Phone	(570) 839-8530	Facility Phone	(570) 839-8530	
Client ID	54470	Site ID	240741	
Ch 94 Load Status	N/A	Municipality	Paradise Township	
Connection Status	N/A	County	Monroe	
Date Application Rece	eived October 17, 2016	EPA Waived?	Yes	
Date Application Acce	epted October 28, 2016	If No, Reason	_	

Summary of Review

A draft permit was originally issued on May 30, 2017 for this facility. There was an open violation for the applicant holding up issuance of the final permit that was just recently resolved. As a result, the permit is being re-drafted and posted for another comment period.

The applicant is requesting renewal of their NPDES permit to discharge up to 0.022 MGD of treated sewage to an unnamed tributary to Paradise Creek (stream code 4977), a HQ-CWF/MF receiving stream in state water plan basin 01-E (Brodhead 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. The Pennsylvania Fish and Boat Commission classifies Paradise Creek as a stream section that supports natural reproduction of trout (from the headwaters downstream to the mouth).

The 0.235 cfs/mi² LFY estimated in the USGS Scientific Investigation Report 2005-5162 ("Streamflow Statistics for the Paradise and Pocono Creek Watersheds and Selected Streamflow-Gaging Stations in Monroe County, Pennsylvania" by Ronald E. Thompson and Gregory J. Cavallo) was used to model the discharge. The LFY was derived using data from historical gage 01440500 (Paradise Creek at Henryville, PA). More stringent limitations were not recommended in water quality modeling. RMI values were obtained using the "PA Historic Streams" feature of eMapPA as well as the "measure" tool. Elevations were obtained using the spot elevation feature of USGS's National Map Viewer (see Watershed Info attachment). Drainage areas were estimated using USGS's StreamStats interactive map. Acute and chronic partial mixing factors were obtained from PENTOX.

Limits for pH, CBOD₅, TSS and Fecal Coliform are technology-based and carried over from the previous permit. Ammonia-Nitrogen, Total Phosphorus and Dissolved Oxygen limitations are water quality based and carried over from the previous permit. A 30.0 mg/L IMAX for Ammonia-Nitrogen in the winter months is added to the permit.

Approve	Deny	Signatures	Date
Х		/s/ Brian Burden, E.I.T. / Project Manager	June 24, 2019
Х		/s/ Amy M. Bellanca, P.E. / Environmental Engineer Manager	June 24, 2019

Summary of Review

The monitoring frequencies for all parameters have been updated to conform with the monitoring frequencies recommended in the Department's Technical Guidance for the Development and Specification of Effluent Limitations (doc. no. 362-0400-001). CBOD₅, TSS, Fecal Coliform, Ammonia-N and Total Phosphorus are to be monitored 2/month and pH, DO and TRC are to be monitored daily.

The 1.2 mg/L monthly average and 2.8 mg/L IMAX limitations for Total Residual Chlorine (TRC) in the previously issued permit were technology-based limitations. 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 is applied to this permit renewal. The TRC Calculation Spreadsheet (attached) did not recommend more stringent water quality-based limitations. The permittee will be required to meet the new technology-based limits for TRC starting one year after the effective date of the permit (see Part C.III.).

Quarterly monitoring and reporting for Total Nitrogen is added to the permit to monitor nutrient loadings. Quarterly monitoring and reporting requirements for Total Kjeldahl Nitrogen and Nitrate+Nitrite-Nitrogen are added to the permit to calculate Total Nitrogen.

Submitted DMRs indicate that this facility has not discharged from Outfall 001 since October 2017. From the period of October 2015 through October 2017, the following limitation exceedances were reported:

September 2017 - Ammonia-N 9.99 mg/L monthly average

January 2017 - Ammonia-N 16 mg/L monthly average

June 2016 - Total P 1.37 mg/L monthly average

June 2016 - TRC 1.5 mg/L monthly average

May 2016 - TRC 1.5 mg/L monthly average

May 2016 - Total P 1.45 mg/L monthly average

April 2016 - TRC 6.1 mg/L monthly average, 7.5 mg/L IMAX

October 2015 - Ammonia-N 11.6 mg/L monthly average

Submitted DMRs on file indicate that this facility has not disposed of sludge since at least December 2011. The permittee had been required to submit the "Sewage Sludge / Biosolids Production and Disposal" supplemental report in their previous permit cycle.

The previously issued permit expired on February 28, 2017 and the application for renewal was not submitted in a timely manner. There are no open violations for this client that would warrant withholding the issuance of this permit. There is no DRBC docket for this facility. EPA waiver is in effect.



Modeling.pdf





TRC Calculation.pdf



PENTOX.pdf



Watershed Information.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	g Waters and Water Supply Infor	mation		
Outfall No. 001		Design Flow (MGD)	0.022	
Latitude 41° 7' 48"		Longitude	-75º 18' 6"	
Quad Name Bu	ck Hill Falls	Quad Code	0943	
Wastewater Descrip	ption: Sewage Effluent			
Desciving Waters	Unnamed Tributary to Paradise	Stream Code	04977	
Receiving Waters NHD Com ID	Creek	Stream Code RMI		
	26137960 4.03 m; ²		0.2	
Drainage Area	1.03 mi ²	Yield (cfs/mi²)	0.1	
Q ₇₋₁₀ Flow (cfs)	0.103	Q ₇₋₁₀ Basis	Default LFY	
Elevation (ft)	1119	 "	0.06	
Watershed No.	1-E		HQ-CWF	
Existing Use	<u>-</u>			
Exceptions to Use	-			
Assessment Status	<u> </u>			
Cause(s) of Impairn	ment <u>-</u>			
Source(s) of Impair	ment			
TMDL Status	<u>-</u>	Name		
Background/Ambier	nt Data	Data Source		
pH (SU)	<u>-</u>	-		
Temperature (°F)	<u>-</u>			
Hardness (mg/L)	<u>-</u>	_=		
Other:	<u>-</u>	-		
Nearest Downstrea	m Public Water Supply Intake	Brodhead Creek Regional Wa	iter Authority	
	Brodhead Creek	Flow at Intake (cfs)	~13 (based on 0.1 cfs/mi²)	
_	7.1	Distance from Outfall (mi)	~12.3	

Development of Effluent Limitations					
Outfall No.	001		Design Flow (MGD)	0.022	
Latitude	41º 7' 48"		Longitude	-75° 18' 6"	
Wastewater D	escription:	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	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
CBOD5	50	IMAX	-	-
Total Suspended	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Solids	60	IMAX	-	-
рН	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)
	0.5	Average Monthly	-	92a.48(b)(2)
Total Residual Chlorine	1.6	IMAX	-	-

Comments: TRC limitations effective one year after permit effective date.

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
Ammonia Nitrogen	5.0	Average Monthly	
(5/1 – 10/31)	10.0	IMAX	Previous modeling
Ammonia Nitrogen	15.0	Average Monthly	Previous modeling
(11/1 – 4/30)	30.0	IMAX	Previous modeling, new requirement
Dissolved Oxygen	5.0	Minimum	Previous modeling
Total Phaepharus	1.0	Average Monthly	
Total Phosphorus	2.0	IMAX	Previous modeling