

Application Type Renewal
Facility Type Sewage
Major / Minor Minor

NPDES PERMIT FACT SHEET

Application No. PA0024163
APS ID 829396
Authorization ID 1256187

Applicant and Facility Information

Applicant Name	<u>Cambria Township Sewer Authority</u>	Facility Name	<u>Revloc STP</u>
Applicant Address	<u>PO Box 247</u> <u>Revloc, PA 15948-0247</u>	Facility Address	<u>Bethlehem Mine Road</u> <u>Revloc, PA 15948</u>
Applicant Contact		Facility Contact	<u>Same</u>
Applicant Phone	<u>(814) 472-5023</u>	Facility Phone	<u>Same</u>
Client ID	<u>43663</u>	Site ID	<u>2335</u>
SIC Code	<u>4952</u>	Municipality	<u>Cambria Township</u>
SIC Description	<u>Trans. & Utilities - Sewerage Systems</u>	County	<u>Cambria</u>
Date Application Received	<u>December 21, 2018</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>December 26, 2018</u>	If No, Reason	
Purpose of Application	<u>Renewal of NPDES Permit.</u>		

Summary of Review

This application is for a renewal of NPDES Permit PA0024163 which was previously issued on July 18, 2014. NPDES Permit PA0024163 authorizes a discharge of 0.50 MGD from the Revloc STP to South Branch Black Lick Creek. South Branch Black Lick Creek is classified as a cold-water fishery.

The receiving stream, South Branch Black Lick Creek, was previously determined to be impacted by acid mine drainage. Effluent limits imposed in previous permits were based on the stream having no use at the point of discharge or downstream. At this authors request, South Branch of Black Lick Creek was re-evaluated by Department Biologists in January of 2020 to determine the condition of the stream. It was determined that the stream had recovered to support aquatic life at the discharge point. In addition, the plant operator stated that a large mine dump had been reclaimed and that he believed that was the reason for the stream improvement. Evidence of reclamation of the mine dump was observed.

Effluent limits for the discharge have been established at the discharge point using WQM 7.0. WQBELs for NH3-N, D.O. and TRC are now required to protect the use and aquatic life in the stream.

New Water Quality-Based Limitations

Parameter	Limit (mg/l)	SBC	Model
NH3-N (May thru Oct)	2.4	Average Monthly	WQM 7.0
NH3-N (May thru Oct)	3.6	Average Weekly	WQM 7.0
NH3-N (Nov thru April)	7.0	Average Monthly	WQM 7.0
NH3-N (Nov thru April)	10.5	Average Weekly	WQM 7.0
Dissolved Oxygen	6.0	Instant. Minimum	WQM 7.0
Total Residual Chlorine	0.05	Average Monthly	TRC_Calc

As per DEP Policy, the Authority will be given 3 years to achieve the new WQBELs.

Summary of Review

The treatment process consists of grit removal, screening, SBRs and chlorination. The SBR treatment scheme can achieve the NH3-N limits if operated properly. A review of the eDMRs indicate effluent levels below 1.0mg/l with a high of 10.7mg/l. The effluent D.O is consistently above 6.0mg/l with only one low of 5.6mg/l in 12 months.

The STP will be unable to achieve the new TRC WQBEL. eDMRs show an achievable limit of at best 0.11mg/l. The Authority will either have to add TRC removal or switch to UV disinfection to achieve a 0.05mg/l TRC limit

Existing Technology-Based Limitations Re-imposed

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD ₅	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	38	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
TSS	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pH	6.0 – 9.0 S.U.	IMin – IMax	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)

Interim Limits

The limits below are presently incorporated in the NPDES Permit. These limits will be re-imposed for a 3-year timeframe after which time the WQBELs will become effective.

TRC	0.5	Average Monthly	92a.47-48
Dissolved Oxygen	4.0	Instant. Minimum	SOP BPJ
NH3-N	Monitor & Report	Average Monthly	SOP BPJ

WQM 7.0 Pollution Report



Revloc Year 2020
Pollution Report

Additional Considerations

In accordance with the Kiski TMDL, monitoring for Iron, Manganese and Aluminum had previously been incorporated into this permit. This reporting will continue with this renewal.

This permit has been updated to conform with the Standard Operating Procedure (SOP)1 for Clean Water Program Establishing Effluent Limitations for Individual Sewage Permits SOP No. BCW-PMT-033 Final, November 9, 2012 Revised, January 10, 2019 Version 1.6

Approve	Return	Deny	Signatures	Date
X			Raymond E. Lattner / Environmental Application Mngr. /S/	1/22/2020
X			Donald J. Leone, P.E. / Environmental Engineer Manager /S/	1/24/2020