

Application Type Renewal
Facility Type Non-Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0070009
APS ID 699819
Authorization ID 1264830

Applicant and Facility Information

Applicant Name	<u>Aqua Pennsylvania Wastewater, Inc. (APW)</u>	Facility Name	<u>Aqua Pennsylvania Wastewater, Inc. Cove Village WWTP</u>
Applicant Address	<u>762 W. Lancaster Avenue Bryn Mawr, PA 19010-3402</u>	Facility Address	<u>Cove Mountain Drive Zion Grove, PA 17985</u>
Applicant Contact	<u>Curt R. Steffy, Vice President</u>	Facility Contact	<u>Robert J. Soltis</u>
Applicant Phone	<u>(610) 645-1122</u>	Facility Phone	<u>(570) 443-7099</u>
Client ID	<u>62614</u>	Site ID	<u>2763</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>North Union Township</u>
Connection Status	<u>-</u>	County	<u>Schuylkill</u>
Date Application Received	<u>March 4, 2019</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>March 12, 2019</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of NPDES permit for discharge of treated sewage.</u>		

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.10 MGD of treated sewage into Catawissa Creek, a Trout Stocking, Migratory Fish (TSF, MF) receiving stream in State Water Plan Basin 5-E (Roaring Creeks). 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 discharge is not expected to affect public water supplies.

The coordinates for Outfall 001 were updated to more accurately represent the location of the outfall.

Limitations for pH, CBOD₅, Total Suspended Solids (TSS), Fecal Coliform, and Dissolved Oxygen are technology-based and carried over from the previous permit.

The previous permit had a monitoring/reporting requirement for Ammonia-Nitrogen at a frequency of 1/year. A 25.0 mg/L average monthly limit and 50.0 mg/L IMAX limit has been applied to this permit for Ammonia-Nitrogen from May-October. Monitoring/reporting for Ammonia-Nitrogen is required from November-April. A 2/month sampling frequency is being applied to be consistent with recommended frequencies. WQM 7.0 modeling did not recommend stricter limitations.

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 has been applied to this permit renewal. The TRC Calculation Spreadsheet 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.

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

Approve	Deny	Signatures	Date
X		<i>Allison Seyfried</i> Allison Seyfried / Environmental Engineering Specialist	April 10, 2020
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager	4-17-20

Summary of Review

A Total Maximum Daily Load (TMDL) for the Catawissa Creek Watershed was approved by EPA on April 9, 2003. The TMDL addresses metals (iron, manganese and aluminum) and depressed pH associated with acid mine drainage (AMD). All the allocations in the TMDL are load allocations to nonpoint sources of pollution. Since this is a sewage discharge, no appreciable quantities of these metals are expected to be present in the effluent.

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. USGS StreamStats and the state-default Low flow Yield (LFY) were used to estimate low flow values. StreamStats provided at 7-Day 10-Year Low Flow (Q_{7-10} Flow) of 12.0 ft^3/sec and LFY of 0.19 cfs/mi^2 . The default LFY is 0.1 cfs/mi^2 and was used to calculate a Q_{7-10} Flow of 6.2 ft^3/sec . 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.

The conservative default LFY and associated Q_{7-10} Flow were first used for modeling. WQM 7.0 modeling and TRC Calculation Spreadsheet did not recommended water-quality based limitations; therefore, modeling with the StreamStats values was not necessary.

As per the permittee's Sewage Sludge and Biosolids Supplemental Report forms and permit renewal application, sludge is hauled to the Greater Hazelton Joint Sewer Authority in Hazelton, PA by Environmental Service Corporation.

The existing permit expired on August 31, 2019 and the application for renewal was received on time.

A Water Management System Inspection query indicated that on October 1, 2019 a Compliance Evaluation was performed.

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



Watershed Info -
Cove Village.pdf



WQM 7.0 - Cove
Village.pdf



TRC_CALC - Cove
Village.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.	<u>001</u>	Design Flow (MGD)	<u>0.10</u>
Latitude	<u>40° 53' 53"</u>	Longitude	<u>-76° 12' 45"</u>
Quad Name	<u>Nuremberg</u>	Quad Code	<u>1136</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Catawissa Creek (TSF, MF)</u>	Stream Code	<u>27529</u>
NHD Com ID	<u>65641701</u>	RMI	<u>24.3</u>
Drainage Area	<u>62.0 mi²</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>6.2</u>	Q ₇₋₁₀ Basis	<u>State-wide default</u>
Elevation (ft)	<u>820</u>	Slope (ft/ft)	<u>-</u>
Watershed No.	<u>5-E</u>	Chapter 93 Class.	<u>TSF, MF</u>
Existing Use	<u>-</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u>-</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>METALS</u>		
Source(s) of Impairment	<u>ACID MINE DRAINAGE</u>		
TMDL Status	<u>Final</u>	Name	<u>Catawissa Creek</u>
Nearest Downstream Public Water Supply Intake	<u>Catawissa Municipal Water Authority</u>		
PWS Waters	<u>Catawissa Creek</u>	Flow at Intake (cfs)	<u>-</u>
PWS RMI	<u>1.01</u>	Distance from Outfall (mi)	<u>~ 23.3</u>

Treatment Facility Summary				
Treatment Facility Name: Aqua Pennsylvania Wastewater, Inc. Cove Village				
WQM Permit No.	Issuance Date			
5479402	07/10/1979			
5473421	04/24/1975			
5473419	06/20/1973			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Chorine	0.0338 (2016-2018)
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.10	340	Not Overloaded	Aerated Sludge Holding Tank	Hauled

Development of Effluent Limitations

Outfall No. 001 Design Flow (MGD) 0.10
 Latitude 40° 53' 53.00" Longitude -76° 12' 45.00"
 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)
	1.6	IMAX		
Ammonia-Nitrogen May 1 - Oct 31	25.0	Average Monthly	-	BPJ
	50.0	IMAX		
Ammonia-Nitrogen Nov 1 - Apr 30	Report	Average Monthly	-	BPJ
Dissolved Oxygen	5.0	Minimum	-	BPJ

Water Quality-Based Limitations

Not applicable.

Anti-Backsliding

No limitations were made less stringent.