



Application Type

Renewal

Facility Type

Non-Municipal

Major / Minor

Minor

Application No.

PA0060658

APS ID

692534

Authorization ID

1498308

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Applicant and Facility Information

Applicant Name	<u>Aqua PA Wastewater Inc.</u>	Facility Name	<u>Washington Park STP</u>
Applicant Address	<u>762 W. Lancaster Ave</u>	Facility Address	<u>2 Debbie Drive</u>
	<u>Bryn Mawr, PA 19010</u>		<u>Tunkhannock, PA 18657</u>
Applicant Contact	<u>Todd Duerr</u>	Facility Contact	<u>David Hoodstad</u>
Applicant Phone	<u>(610) 645-1122</u>	Facility Phone	<u>(570) 443-7099</u>
Client ID	<u>62614</u>	Site ID	<u>254313</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Washington Township</u>
Connection Status		County	<u>Wyoming</u>
Date Application Received	<u>August 28, 2024</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>September 9, 2024</u>	If No, Reason	
Purpose of Application	<u>Renewal of existing NPDES permit to discharge treated sewage effluent.</u>		

Summary of Review

The permit draft is being re-drafted due to a comment received from the applicant:

"After review of NPDES permit PA0060658 draft permit and associated Fact Sheet for the Washington Park WWTP, Aqua objects to the proposed increase in the minimum effluent dissolved oxygen discharge limit from 5.0mg/L to 7.0mg/L."

- During the modeling process, a key input for the existing limit was not changed from a default setting of 7.0 to 5.0. The model was performed again using the value of 5.0 resulting in a validating the minimum effluent limitation as 5.0mg/L.

The applicant is requesting the renewal of a NPDES permit to discharge up to 0.07 MGD of treated sewage into Tributary 29242 to the Susquehanna River, a Cold-Water Fishery, Migratory Fish (CWF, MF) receiving stream in State Water Plan Basin 4-G (Mehoopany – Bowman 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 system for this facility is primary treatment via a grinder and bar screen, followed by flow equalization, then secondary treatment via extended aeration, and finally uses UV for disinfection. The facility adds the following chemicals during the treatment process:

- Soad Ash: pH and Alkalinity
- Chlorine Tablets: as needed
- Sodium Thiosulfate: Dechlorination

Approve	Deny	Signatures	Date
X		 William Hon / Environmental Engineer Specialist	November 20, 2025
X		 Edward Dudick, P.E. / Environmental Engineer Manager	November 20, 2025

Summary of Review

Applicant states 83,600 gallons of sludge is hauled offsite on a yearly basis via independent contractor to Greater Hazleton Joint Sewer Authority or Wyoming Valley Sanitary Authority for proper disposal.

The facility resides in the Chesapeake Bay Watershed but does not have a "Pennsylvania's Phase 3 Chesapeake Bay Watershed Implementation Plan" for the existing Bay TMDL.

There are no representative stream gages in the vicinity of the outfall. The default LFY of 0.1 cfs/mi² was chosen to model the discharge. For modeling inputs, RMI values were obtained using the "PA Historic Streams" feature of eMapPA as well as the "measure" tool. Drainage areas were delineated using USGS's StreamStats Interactive Map and elevations were obtained using the elevation profile feature of StreamStats (see Watershed Information attachment).

Q7-10 for the point of first use was determined using Streamstats. L7-10 for outfall was determined by using the following equation: Using the state-wide Low-Flow Yield (LFY) of 0.1 cfs/mi²:

$$\frac{0.1 \text{ ft}^3/\text{sec}}{\text{mi}^2} \times .54 \text{ mi}^2 = \frac{.054 \text{ ft}^3}{\text{sec}}$$

E. Coli monitoring requirements will be introduced into the new permit according to PA DEP policy for individual sewage effluent limitations. E. Coli requirements for a treatment plant with .07 MGD discharge is found in the SOP for establishing effluent limitations for individual sewage.

Limitations for pH, CBOD₅, Total Suspended Solids (TSS), and Fecal Coliform are technology-based and carried over from the previous permit. Limitations for Ammonia-Nitrogen, Dissolved Oxygen, and Total Residual Chloride (TRC) are water quality-based and carried over from the previous permit. TRC requirements will be kept at the frequency of "Daily While Discharging" as it is a backup to the existing UV system and will only have an IMAX requirement.

The monitoring/reporting for Total Nitrogen (TN), Total Phosphorus (TP), Total Kjeldahl Nitrogen (TKN), and Nitrate-Nitrite as N has been maintained in this permit.

Influent monitoring and sampling requirements will not be imposed on this facility during this permit cycle.

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).

Special conditions added in to the NPDES permit are as follows:

- Part C.3: Dry Streams
- Part C.33: UV System Monitoring Requirements
- Part C.110A: Solids Management

The last inspection performed at this facility was conducted on 4/29/2022 and resulted in zero (0) NOVs. There are no open violations for this facility in the Clean Water Program. Recommend Approval

Modeling Inputs:

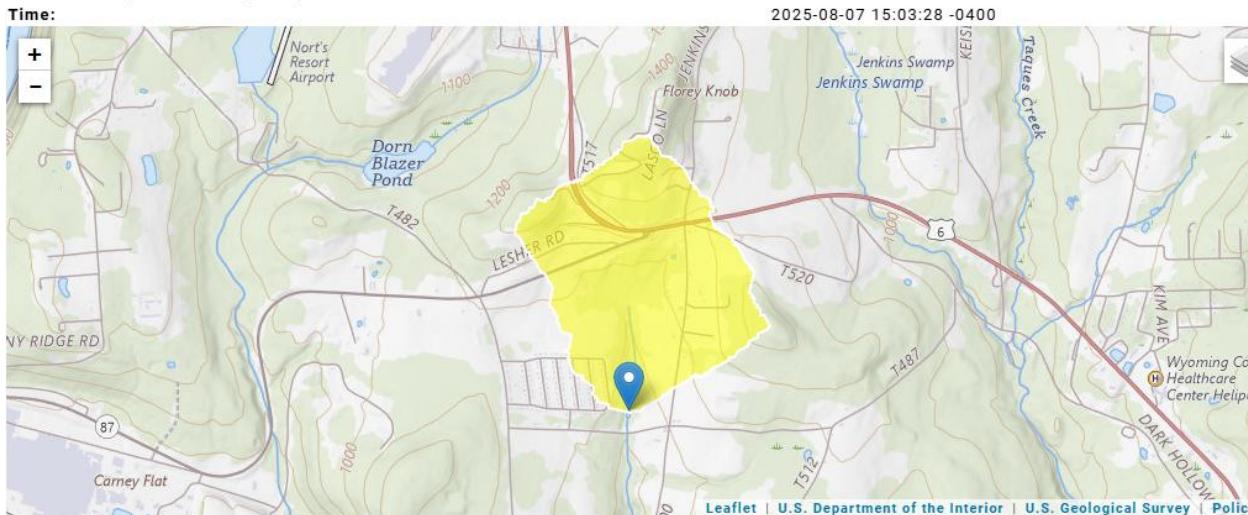
Washington Park
PT1 @ Outfall 001, Trib 29242 to Susquehanna River, 29242, 4G, Mehoopany – Bowman Creeks, CWF, MF
RMI: 1.25

Summary of Review

Clicked Point (Latitude, Longitude):

41.57661, -76.00653

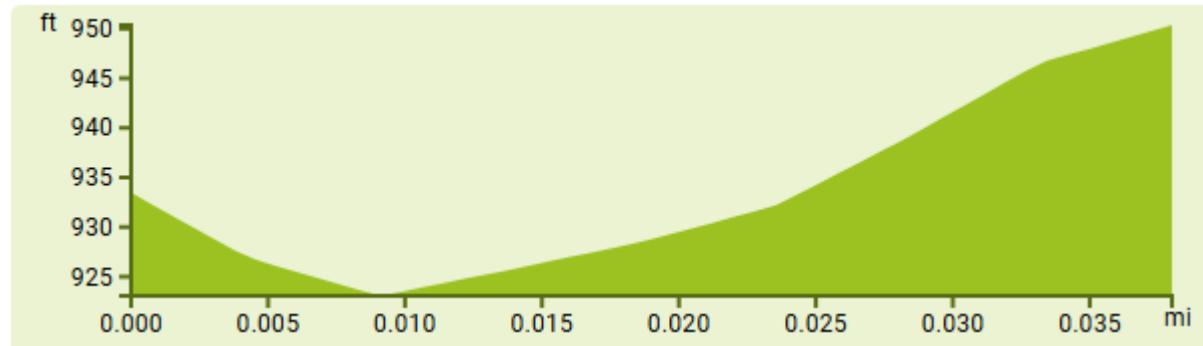
2025-08-07 15:03:28 -0400



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► Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.54	square miles
7 Day 10 Year Low Flow		0.000859	ft^3/s



PT 2 @ conflux w/ Susquehanna River
RMI: .01 for modeling

Summary of Review

Clicked Point (Latitude, Longitude):

41.56216, -76.00016
2025-08-07 15:08:34 -0400



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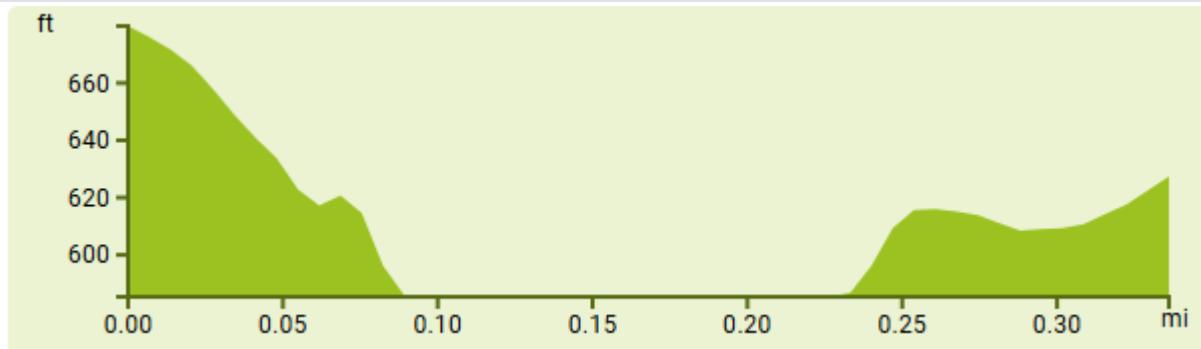
» Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	8880	square miles

7 Day 10 Year Low Flow

677

ft³/s



Summary of Review

Analysis Results WQM 7.0

Hydrodynamics	NH3-N Allocations	D.O. Allocations	D.O. Simulation	Effluent Limitations
RML	Discharge Name	Permit Number Disc Flow (mgd)		
1.25	Washington Park	PA0060658	0.0700	
	Parameter	Effluent Limit 30 Day Average (mg/L)	Effluent Limit Maximum (mg/L)	Effluent Limit Minimum (mg/L)
	CBOD5	25		
	NH3-N	2.55	5.1	
	Dissolved Oxygen			5
Record: 1 of 1 No Filter Search				

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TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

0.054	= Q stream (cfs)	0.5	= CV Daily
0.07	= Q discharge (MGD)	0.5	= CV Hourly
30	= no. samples	1	= AFC_Partial Mix Factor
0.3	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor
0	= Chlorine Demand of Discharge	15	= AFC_Criteria Compliance Time (min)
0.5	= BAT/BPJ Value	720	= CFC_Criteria Compliance Time (min)
0	= % Factor of Safety (FOS)		= Decay Coefficient (K)

Source	Reference	AFC Calculations	Reference	CFC Calculations
TRC	1.3.2.iii	WLA_afc = 0.178	1.3.2.iii	WLA_cfc = 0.166
PENTOXSD TRG	5.1a	LTAMULT_afc = 0.373	5.1c	LTAMULT_cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 0.066	5.1d	LTA_cfc = 0.097

Source		Effluent Limit Calculations		
PENTOXSD TRG	5.1f	AML MULT = 1.231		
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.082	INST MAX LIMIT (mg/l) = 0.267	AFC

L7-10 for outfall was determined by using the following equation:

Using the state-wide Low-Flow Yield (LFY) of 0.1 cfs/mi²:

$$\frac{0.1 \text{ ft}^3/\text{sec}}{\text{mi}^2} \times .54 \text{ mi}^2 = \frac{.054 \text{ ft}^3}{\text{sec}}$$

Summary of Review

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.



Pennsylvania
Department of
Environmental Protection