

Application Type Renewal
Facility Type Municipal
Major / Minor Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0046353
APS ID 829192
Authorization ID 1464173

Applicant and Facility Information

Applicant Name	<u>Waymart Area Authority</u>	Facility Name	<u>Waymart Area Authority Wastewater Treatment Plant (WWTP)</u>
Applicant Address	<u>66 Railroad Lane</u> <u>Waymart, PA 18472</u>	Facility Address	<u>66 Railroad Lane</u> <u>Waymart, PA 18472</u>
Applicant Contact	<u>Kenneth Williams, Authority Chairman</u>	Facility Contact	<u>Randy Skates, Manager</u>
Applicant Phone	<u>(570) 488-5350</u>	Facility Phone	<u>(570) 488-5350</u>
Client ID	<u>88248</u>	Site ID	<u>250145</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Waymart Borough</u>
Connection Status	<u>Legally Modified Connection Prohibition</u>	County	<u>Wayne</u>
Date Application Received	<u>November 30, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>December 19, 2023</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 0.815 MGD of treated sewage into Van Auken Creek, a High Quality-Trout Stocking, Migratory Fish (HQ-TSF, MF) receiving stream in State Water Plan Basin 1-B (Lackawaxen River). 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 not designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. This discharge is not expected to affect public water supplies.


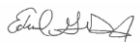
Limitations for pH, Fecal Coliform, and Dissolved Oxygen (DO) are technology-based and carried over from the previous permit.

Limitations for CBOD₅, Total Suspended Solids (TSS), Ammonia-Nitrogen, Total Phosphorous, and Nitrate-Nitrite as N are water quality-based and carried over from the previous permit. WQM 7.0 modeling did not recommend stricter limits.

The monitoring/reporting for Total Nitrogen, Total Kjeldahl Nitrogen, and Ultraviolet light dosage have also been maintained in the permit.

The facility utilizes Ultraviolet (UV) disinfection as the primary disinfection method. The Total Residual Chlorine (TRC) Calculation Spreadsheet recommended a stricter limitation than the previous permit. The IMAX water quality-based limitation (0.189 mg/L) is to be sampled "daily when discharging" in the event the facility uses chlorine for cleaning purposes or as a back-up disinfection option, (see requirements under Part C.I.E).

Sewage discharges now require monitoring and reporting for E. Coli. A monitoring frequency of 1/month for design flows \geq 1 MGD, 1/quarter for design flows \geq 0.05 and $<$ 1 MGD, 1/year for design flows of 0.002 – 0.05 MGD will be utilized.

Approve	Deny	Signatures	Date
X		 Allison Seyfried Zukosky / Project Manager	November 20, 2025
X		 Edward Dudick, P.E. / Environmental Engineer Manager	November 21, 2025

Summary of Review

Pollutant sampling results submitted with the permit application were entered into the Toxics Management Spreadsheet (TMS). The TMS recommended limitations for Total Copper and monitoring/reporting for Total Zinc. The permittee was given the opportunity to conduct a minimum of 10 additional effluent samples for these parameters. The permittee collected 10 additional samples during June 2025 through September 2025 and provided the results to the Department via email on October 6, 2021. These updated results were used to re-run the modeling. The modeling no longer recommended limitations for Total Copper; however, monitoring/reporting was still recommended for both Total Copper and Total Zinc. Therefore, quarterly monitoring/reporting for Total Copper and Total Zinc were added to the permit.

Per current Standard Operating Procedures for Publicly Owned Treatment Plants, the raw sewage influent monitoring/reporting for TSS and CBOD₅ has been maintained in the permit.

24-hour composite sampling is now required in place of 8-hour composite sampling.

The latest DRBC Docket No. D-2002-032 CP-3 requires the addition of monthly monitoring/reporting for 85% minimum CBOD₅ Percent Removal and monthly influent CBOD₅ monitoring/reporting. The limitations for Total Dissolved Solids (TDS) were also maintained in this permit.

The Chapter 94 Report that was submitted to the Department for the operating year 2024 does not indicate there are any existing or projected hydraulic or organic overloads.

For this permit renewal, all monitoring frequencies for parameters with limitations are consistent with the Department's *Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits* (document no. 362-0400-001).

There are no representative stream gages in the vicinity of the outfall. USGS StreamStats data was used to model the flow. River Mile Index (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. Modeling data can be seen starting on page 8 of this fact sheet.

The existing permit expired on May 31, 2024 and the application for renewal was received on time.

A Water Management System Inspection query indicated a Compliance Evaluation was performed on July 20, 2022 and a Routine/Partial Inspection was performed on October 24, 2022.

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

Sludge use and disposal description and location(s): As per the permittee's NPDES Renewal Application and information obtained from the permittee's consultant, sludge is hauled to Keystone Sanitary Landfill in Dunmore, PA by Mascaro & Sons.

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)	0.815
Latitude	41° 35' 26.38"	Longitude	-75° 22' 14.24"
Quad Name	Honesdale	Quad Code	0643
Wastewater Description: Sewage Effluent			
Receiving Waters	Van Auken Creek (HQ-TSF, MF)	Stream Code	6075
NHD Com ID	25925390	RMI	3.25
Drainage Area	14.7 mi ²	Yield (cfs/mi ²)	0.029
Q ₇₋₁₀ Flow (cfs)	0.423	Q ₇₋₁₀ Basis	USGS StreamStats
Elevation (ft)	1,250.85	Slope (ft/ft)	-
Watershed No.	1-B	Chapter 93 Class.	HQ-TSF, 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	-
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)	~ 129

Treatment Facility Summary				
Treatment Facility Name: Waymart Area Authority WWTP				
WQM Permit No.	Issuance Date	Scope		
6415402	August 11, 2015	WWTP upgrades including rerating the WWTP to 0.815 MGD, new fine screen/compactor, and improving the sludge thickening system. Also includes upgrades to SCI Waymart, Belmont Street, and Sleepy Hollow Pump Stations		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Sequencing Batch Reactor	Ultraviolet	0.815
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.978	3,720	Not Overloaded	Aerobic Digestion/Belt Filter Press	Hauled/Landfill

Compliance History

DMR Data for Outfall 001 (from October 1, 2024 to September 30, 2025)

Parameter	SEP-25	AUG-25	JUL-25	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24
Flow (MGD) Average Monthly	0.593	0.619	0.71	0.805	0.944	0.706	0.75	0.677	0.686	0.762	0.591	0.537
Flow (MGD) Daily Maximum	0.866	0.759	0.972	0.962	1.47	0.843	1.04	1.03	1.17	1.29	0.844	0.615
pH (S.U.) Instantaneous Minimum	7.0	6.9	6.7	6.7	7.5	7.0	6.9	6.9	6.8	6.4	6.8	6.7
pH (S.U.) Instantaneous Maximum	7.6	7.3	7.2	7.1	6.7	7.7	7.3	7.3	7.4	7.3	7.3	7.2
DO (mg/L) Instantaneous Minimum	5.1	5.2	5.2	5.5	5.6	6.0	5.5	5.7	6.4	7.7	6.2	6.0
TRC (mg/L) Average Monthly	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG
TRC (mg/L) Instantaneous Maximum	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG
CBOD5 (lbs/day) Average Monthly	18.0	30.0	21.0	21.0	26.0	20.0	39.0	19.0	38.0	32.0	43.0	13.0
CBOD5 (lbs/day) Weekly Average	33.0	64.0	27.0	22.0	36.0	29.0	74.0	24.0	57.0	46.0	133.0	15.0
CBOD5 (mg/L) Average Monthly	4.0	6.0	4.0	3.0	3.0	3.0	7.0	4.0	6.0	8.7	7.0	3.0
CBOD5 (mg/L) Weekly Average	7.0	13.0	5.0	3.0	3.0	5.0	12.0	4.0	11.0	9.0	19.0	3.0
BOD5 (mg/L) Raw Sewage Influent Average Monthly	57.0	203.0	81.0	73.0	75.0	229.0	236.0	93.0	109	101.0	167.0	167.0
TSS (lbs/day) Average Monthly	37.0	48.0	26.0	28.0	41.0	31.0	84.0	40.0	72.0	64.0	128.0	17.0
TSS (lbs/day) Weekly Average	87.0	93.0	33.0	37.0	45.0	76.0	190.0	54.0	137.0	92.01	456.0	20.0
TSS (mg/L) Average Monthly	8.0	10.0	4.0	4.0	5.0	5.0	14.0	7.0	12.0	11.0	20.0	4.0

NPDES Permit Fact Sheet
Waymart Area Authority

NPDES Permit No. PA0046353

TSS (mg/L) Raw Sewage Influent Average Monthly	45.0	209.0	24.0	39.0	58.0	169.0	212.0	59.0	77.0	631.0	120.0	96.0
TSS (mg/L) Weekly Average	18.0	19.0	5.0	5.0	7.0	13.0	31.0	10.0	17.0	16.0	65.0	4.0
Total Dissolved Solids (lbs/day) Average Quarterly	1684.7			1402			1498.0			1050.0		
Total Dissolved Solids (mg/L) Average Quarterly	261.0			260.0			305.0			238.0		
Fecal Coliform (No./100 ml) Geometric Mean	8.0	5.0	22.0	12.0	14.0	23.0	35.0	145.0	66.0	34.0	18.0	6.0
Fecal Coliform (No./100 ml) Instantaneous Maximum	28.0	10.0	126.0	24.0	24.0	52.0	76.0	348.0	216.0	64.0	84.0	16.0
Nitrate-Nitrite (lbs/day) Average Monthly	18.0	24.0	31.0	26.0	26.0	21.0	19.0	24.0	25.0	30.0	19.0	37.0
Nitrate-Nitrite (mg/L) Average Monthly	3.7	4.35	5.07	3.84	2.7	3.81	3.02	4.93	3.42	4.72	4.41	8.7
Total Nitrogen (lbs/day) Average Monthly	28.0	35.0	40.0	28.0	40.0	32.0	25.0	29.0	34.0	36.0	23.0	41.0
Total Nitrogen (mg/L) Average Monthly	28.0	6.35	6.62	4.3	4.2	5.8	4.0	5.7	4.8	5.8	23.0	9.6
Ammonia (lbs/day) Average Monthly	5.0	5.0	6.0	7.0	9.0	6.0	6.0	6.0	6.0	6.0	5.0	4.0
Ammonia (mg/L) Average Monthly	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
TKN (mg/L) Average Monthly	10.0	2.0	8.0	1.0	2.0	2.0	6.0	1.1	1.4	1.2	1.0	4.0
Total Phosphorus (lbs/day) Average Monthly	5.0	4.0	3.0	2.0	3.0	2.0	1.0	4.0	3.0	5.0	3.0	3.0
Total Phosphorus (mg/L) Average Monthly	0.9	0.78	0.52	0.33	0.33	0.33	0.2	0.79	0.5	0.82	0.59	0.74
UV Dosage (mjoules/cm²) Instantaneous Minimum	38.9	31.9	40.3	37.0	28.8	41.0	40.2	33.5	40.7	35.9	21.7	28.6

Compliance History

Effluent Violations for Outfall 001, from: November 1, 2024 To: September 30, 2025

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
CBOD5	11/30/24	Wkly Avg	133.0	lbs/day	101.9	lbs/day
CBOD5	11/30/24	Wkly Avg	19.0	mg/L	15.0	mg/L
TSS	11/30/24	Avg Mo	128.0	lbs/day	96.5	lbs/day
TSS	11/30/24	Wkly Avg	456.0	lbs/day	135.9	lbs/day
TSS	03/31/25	Wkly Avg	190.0	lbs/day	135.9	lbs/day
TSS	01/31/25	Wkly Avg	137.0	lbs/day	135.9	lbs/day
TSS	11/30/24	Avg Mo	20.0	mg/L	14.2	mg/L
TSS	03/31/25	Wkly Avg	31.0	mg/L	20.0	mg/L
TSS	11/30/24	Wkly Avg	65.0	mg/L	20.0	mg/L

Development of Effluent Limitations

Outfall No. 001
Latitude 41° 35' 27.00"
Wastewater Description: Sewage Effluent

Design Flow (MGD) 0.815
Longitude -75° 22' 14.00"

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
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)
Dissolved Oxygen	5.0	Minimum	-	BPJ
E. Coli	Report	IMAX	-	92a.61

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
Total Residual Chlorine	0.189	IMAX	TRC Calculation Spreadsheet
Carbonaceous Biochemical Oxygen Demand (CBOD5)	10.0 15.0 20.0	Average Monthly Weekly Average IMAX	Previous Permit/Modeling
Carbonaceous Biochemical Oxygen Demand (CBOD5) Raw Sewage Influent	Report	Average Monthly	DRBC Docket 2002-032 CP-3
CBOD5 Minimum % Removal (%)	85	Minimum Monthly Average	DRBC Docket 2002-032 CP-3
Biochemical Oxygen Demand (BOD5) Raw Sewage Influent	Report	Average Monthly	POTW Requirement
Total Suspended Solids	14.2 20.0 28.4	Average Monthly Weekly Average IMAX	Previous Permit/Modeling
Total Suspended Solids Raw Sewage Influent	Report	Average Monthly	POTW Requirement
Ammonia-Nitrogen Nov 1 - Apr 30	5.2 10.5	Average Monthly IMAX	Previous Permit/Modeling
Ammonia-Nitrogen May 1 - Oct 31	1.7 3.5	Average Monthly IMAX	Previous Permit/Modeling
Total Dissolved Solids	1,000 2,000	Average Quarterly IMAX	Previous DRBC Docket
Nitrate-Nitrite as N	8.7 17.4	Average Monthly IMAX	Previous Permit/Modeling
Total Phosphorus	1.7 3.5	Average Monthly IMAX	Previous Permit/Modeling

Zinc, Total (ug/L)	Report	Average Quarterly Daily Max	Toxics Management Spreadsheet (TMS)
Copper, Total (ug/L)	Report	Average Quarterly Daily Max	Toxics Management Spreadsheet (TMS)
Total Nitrogen	Report	Average Monthly	Previous Permit
Total Kjeldahl Nitrogen	Report	Average Monthly	Previous Permit

Anti-Backsliding

No limitations were made less stringent.

USGS StreamStats Data:

At Outfall 001 on Van Auken Creek:

RMI	Elevation (ft)	Drainage Area (mi ²)	Q ₇₋₁₀ Flow (cfs)
3.25	1,250.85	14.7	0.423

$$\text{Low Flow Yield using StreamStats} = \frac{0.423 \text{ ft}^3/\text{sec}}{14.7 \text{ mi}^2} = 0.029 \frac{\text{ft}^3/\text{sec}}{\text{mi}^2}$$

StreamStats Report

Region ID:

Workspace ID:

Clicked Point (Latitude, Longitude):

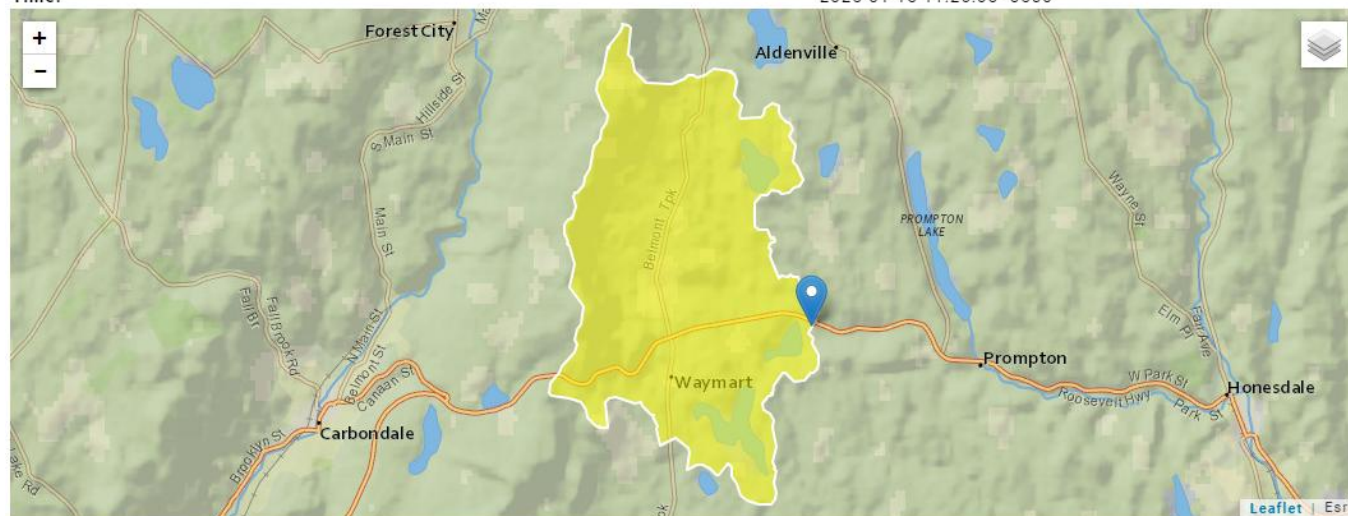
Time:

PA

PA20250115162540197000

41.59048, -75.37074

2025-01-15 11:26:05 -0500



Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	14.7	square miles

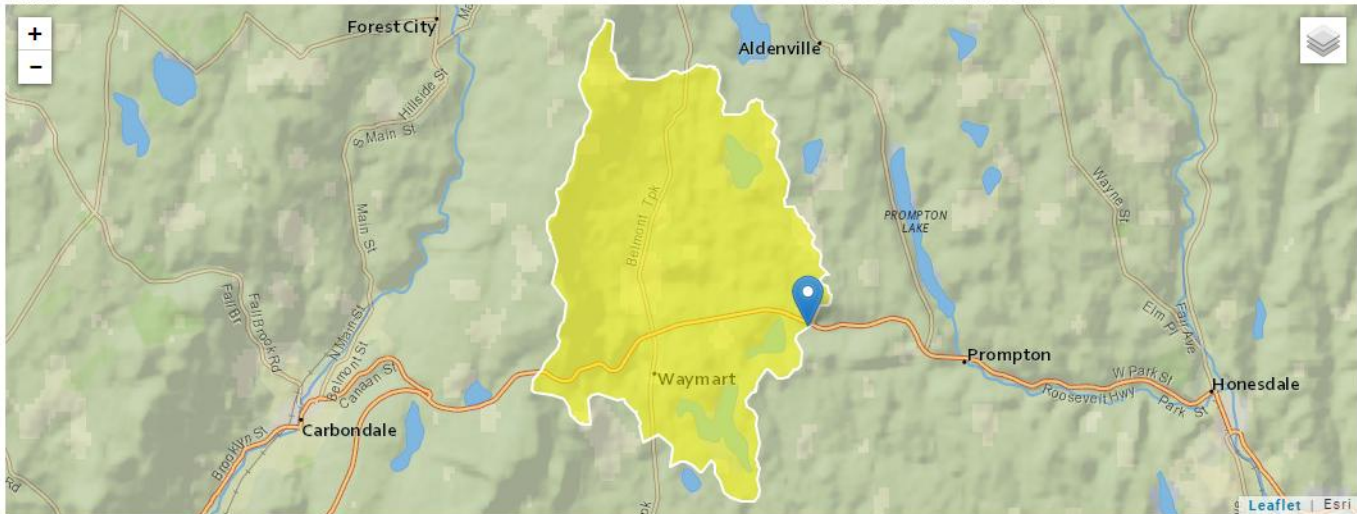
Statistic	Value	Unit
7 Day 2 Year Low Flow	1.19	ft ³ /s
30 Day 2 Year Low Flow	1.72	ft ³ /s
7 Day 10 Year Low Flow	0.423	ft ³ /s

At confluence with Unnamed Tributary to Van Auken Creek (6084):

RMI	Elevation (ft)	Drainage Area (mi ²)
3.057	1,243.93	16

StreamStats Report

Region ID: PA
 Workspace ID: PA20250115163340888000
 Clicked Point (Latitude, Longitude): 41.58983, -75.36735
 Time: 2025-01-15 11:34:15 -0500



Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	16	square miles

WQM 7.0 Effluent Limits

<u>SWP Basin</u>		<u>Stream Code</u>	<u>Stream Name</u>				
01B		6075	VAN AUKEN CREEK				
RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
3.250	Waymart Area	PA0046353	0.815	CBOD5	20.48		
				NH3-N	2.19	4.38	
				Dissolved Oxygen			4

Additional Sampling Results Provided by Permittee:

10



Toxics Management Spreadsheet
Version 1.4, May 2023

Discharge Information

Instructions Discharge Stream

Facility: Waymart Area Authority WWTP NPDES Permit No.: PA0046353 Outfall No.: 001

Evaluation Type: Major Sewage / Industrial Waste Wastewater Description: Treated Sewage

Discharge Characteristics								
Design Flow (MGD)*	Hardness (mg/l)*	pH (SU)*	Partial Mix Factors (PMFs)				Complete Mix Times (min)	
			AFC	CFC	THH	GRL	Q ₇₋₁₀	Q _h
0.815	100	7						

	Discharge Pollutant	Units	Max Discharge Conc	0 # left blank		0.5 # left blank		0 # left blank			1 # left blank	
				Trib Conc	Stream Conc	Daily CV	Hourly CV	Stream CV	Fate Coeff	FO8	Criteria Mod	Chem Transl
Group 1	Total Dissolved Solids (PWS)	mg/L										
	Chloride (PWS)	mg/L	50.8									
	Bromide	mg/L	0.0017									
	Sulfate (PWS)	mg/L	30.1									
	Fluoride (PWS)	mg/L										
Group 2	Total Aluminum	µg/L										
	Total Antimony	µg/L										
	Total Arsenic	µg/L										
	Total Barium	µg/L										
	Total Beryllium	µg/L										
	Total Boron	µg/L										
	Total Cadmium	µg/L										
	Total Chromium (III)	µg/L										
	Hexavalent Chromium	µg/L										
	Total Cobalt	µg/L										
	Total Copper	µg/L	5.2									
	Free Cyanide	µg/L										
	Total Cyanide	µg/L										
	Dissolved Iron	µg/L										
	Total Iron	µg/L										
	Total Lead	mg/L	< 0.0004									
	Total Manganese	µg/L										
	Total Mercury	µg/L										
	Total Nickel	µg/L										
	Total Phenols (Phenolics) (PWS)	µg/L										
	Total Selenium	µg/L										
	Total Silver	µg/L										
	Total Thallium	µg/L										
	Total Zinc	µg/L	28.1									
	Total Molybdenum	µg/L										
	Acrolein	µg/L	<									
	Acrylamide	µg/L	<									
	Acrylonitrile	µg/L	<									
	Benzene	µg/L	<									
	Bromoform	µg/L	<									



Stream / Surface Water Information

Waymart Area Authority WWTP, NPDES Permit No. PA0046353, Outfall 001

Instructions Discharge Stream

Receiving Surface Water Name: Van Auken Creek

No. Reaches to Model: 1

- ☒ Statewide Criteria
☐ Great Lakes Criteria
☐ ORANCO Criteria

Location	Stream Code*	RMI*	Elevation (ft)*	DA (mi ²)*	Slope (ft/ft)	PWS Withdrawal (MGD)	Apply Fish Criteria*
Point of Discharge	006075	3.25	1250.85	14.7			Yes
End of Reach 1	006075	3.057	1243.93	16			Yes

Q₇₋₁₀

Location	RMI	LFY (cfs/mi ²)*	Flow (cfs)		W/D Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time (days)	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness*	pH*	Hardness	pH
Point of Discharge	3.25	0.029										100	7		
End of Reach 1	3.057	0.029													

Q₆

Location	RMI	LFY (cfs/mi ²)*	Flow (cfs)		W/D Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time (days)	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness	pH	Hardness	pH
Point of Discharge	3.25														
End of Reach 1	3.057														

☒ Recommended WQBELs & Monitoring Requirements

No. Samples/Month: 4

Pollutants	Mass Limits		Concentration Limits				Governing WQBEL	WQBEL Basis	Comments
	AML (lbs/day)	MDL (lbs/day)	AML	MDL	IMAX	Units			
Total Copper	Report	Report	Report	Report	Report	µg/L	12.5	CFC	Discharge Conc > 10% WQBEL (no RP)
Total Zinc	Report	Report	Report	Report	Report	µg/L	120	AFC	Discharge Conc > 10% WQBEL (no RP)



Pennsylvania
**Department of
Environmental Protection**