



Application Type  
Facility Type  
Major / Minor

Renewal  
Industrial  
Minor

**NPDES PERMIT FACT SHEET  
INDIVIDUAL INDUSTRIAL WASTE (IW)  
AND IW STORMWATER**

Application No. **PA0065013**  
APS ID **1137739**  
Authorization ID **1527908**

**Applicant and Facility Information**

Applicant Name	<b>Blythe Township Municipal Authority</b>	Facility Name	<b>Blythe Township Municipal Authority</b>
Applicant Address	375 Valley Street	Facility Address	Silver Creek Road
	New Philadelphia, PA 17959-1218		New Philadelphia, PA 17959
Applicant Contact	Mike Burda	Facility Contact	Justin Deangelo
Applicant Phone	(570) 277-6921	Facility Phone	(570) 527-7501
Client ID	83009	Site ID	652049
SIC Code	4941	Municipality	Blythe Township
SIC Description	Trans. & Utilities - Water Supply	County	Schuylkill
Date Application Received	<u>May 19, 2025</u>	EPA Waived?	Yes
Date Application Accepted	<u>May 19, 2025</u>	If No, Reason	
Purpose of Application			

**Summary of Review**

The applicant is requesting renewal of Individual Industrial Waste NPDES Permit PA0065013 to discharge 0.038 MGD of treated IW to Silver Creek, a Cold Water-Fishes, Migratory-Fishes (CWF-MF) stream in PA Water Plan watershed 03-A (Upper Schuylkill River). Silver Creek is impaired for aquatic life caused by Acid Mine Drainage (AMD) and Coal Mining. Silver Creek is a tributary to the Schuylkill River. The Silver Creek Reservoir is directly upstream of the discharge location and water treatment plant and is also where the inlet is for the water treatment plant.

The Blythe Township Municipal Authority Water Treatment Plant (The WTP) is a drinking water filtration plant that takes influent water from the silver creek reservoir. Influent water undergoes chemical pretreatment with soda ash for pH adjustment and alum for phosphorus reduction. An absorption / clarification process is next, followed by filtration. After filtration the finished drinking water is treated with Aqua Mag for corrosion inhibition, more soda ash, and chlorine for disinfection. The discharge being authorized is the raw influent water used to backwash the filter, which is sent to a clarifier / thickener tank where supernatant is discharged to Silver Creek.

The WTP has historically struggled to reach water quality standards in the discharge to Silver Creek, with toxic metals including Copper, Aluminum, and Lead exceeding WQBELs. The permittee has cited 25 PA Code §95.2.5 "When surface waters are used in the industrial plant, the quality of the effluent need not exceed the quality of the raw water supply if the source or supply would normally drain to the point of effluent discharge, unless otherwise required under the act or Federal Act or regulations promulgated thereunder." . This section is applicable in this scenario, and the permittee was instructed on the steps necessary to establish what the quality of the raw water supply is to adjust upcoming limits both in the previous permit and by email. The permittee did not take action and if adjusting limits is desired in the future, an anti-backsliding appeal will be necessary.

Approve	Deny	Signatures	Date
X		 Luca Jordache / Environmental Engineering Trainee	September 17, 2025
X		 Edward Dudick, P.E. / Environmental Engineering Manager	September 29, 2025

### Summary of Review

The most recent permit amendment (and current active permit) issued on October 3, 2020, established new WQBELs that will go into effect on October 1, 2025. The expiration date for the current permit is October 31, 2025. The new WQBELs are as follows:

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Aluminum	Report	XXX	XXX	Report	0.750	0.750	1 / week	24-hr composite
Total Cadmium	Report	XXX	XXX	Report	Report	0.0006	1 / week	24-hr composite
Total Copper	Report	XXX	XXX	0.005	0.009	0.014	1 / week	24-hr composite
Total Lead	Report	XXX	XXX	Report	Report	0.0028	1 / week	24-hr composite
Total Zinc	Report	XXX	XXX	Report	0.059	0.095	1 / week	24-hr composite

\*These are not the limits being implemented in this permit renewal, just the new WQBELs assigned in the previous permit.

As these WQBELs are going into effect before the newest permit renewal will be effective, they are the baseline for limits due to anti-backsliding policy. In addition to the WQBELs being put into place, this renewal will include a new limit for mercury as calculated by the Toxics Management Spreadsheet. This limit includes both load and concentration values. The WTP is currently not expected to be able to consistently stay in compliance with these new WQBELs, they must perform the required actions for an anti-backsliding appeal and site-specific study outlined in the permit to qualify for a major amendment.

A meeting was held on July 15, 2025 between the DEP and Entech Engineering to discuss the WTP and what might be causing the noncompliance. An Engineer's Report written by SDE Engineering (the former operators) indicated that the only reasonable solution to treat the discharge to meet the water quality standards was adding more chemicals in the wastewater line after filtration. The report showed influent sampling results from both the Silver Creek Reservoir and the Stilling Basin before entering the WTP indicating the influent water is not reaching the water quality standards for aluminum, copper, and lead. The final conclusion of the engineer's report indicated that the permittee will not be able to reach the new WQBELs.

The following documents were used or created to aid in the writing of this fact sheet and permit:



TMS PA0065013.pdf



Engineer's Report.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.

<b>Discharge Information</b>		
Outfall No: 001	Design Flow (MGD):	0.038
Latitude: 40° 44' 54.08"	Longitude:	-76° 7' 44.66"
Quad Name:	Quad Code:	
Wastewater Description: Water Treatment Effluent		
<b>Receiving Waters Information</b>		
Receiving Waters: Silver Creek (CWF, MF)	Stream Code:	2367
NHD Com ID: 25991122	RMI:	2.38
Drainage Area: 1.73	Yield (cfs/mi <sup>2</sup> ):	0.1
Q <sub>7-10</sub> Flow (cfs): 0.173	Q <sub>7-10</sub> Basis:	Calculation
Elevation (ft): 1222	Slope (ft/ft):	0.043
Watershed No: 3-A	Chapter 93 Class:	CWF, MF
Existing Use: N/A	Existing Use Qualifier:	N/A
Exceptions to Use: N/A	Exceptions to Criteria:	N/A
Assessment Status: Impaired		
Cause(s) of Impairment: SILTATION		
Source(s) of Impairment: ACID MINE DRAINAGE		
TMDL Status: N/A	Name:	N/A
<b>Water Supply Information</b>		
Nearest Downstream Public Water Supply Intake:	Blythe Township Municipal Authority	
PWS Waters: Silver Creek	Flow at Intake (cfs):	0.173
PWS RMI: 2.38	Distance from Outfall (mi):	0

Other Comments: The Blythe Township Municipal Authority itself is a public water supply source since the plant filters water from the Silver Creek Reservoir to make potable water. The discharge from the plant is raw influent, essentially taken from the reservoir and discharged into silver creek downstream.

Treatment Facility Summary				
<b>Treatment Facility Name:</b> Blyth Township Municipal Authority WTP				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Industrial	Primary	Solids Settling	N/A	0.02

Comments: The WTP does have a secondary degree of treatment for the drinking water, however the filter backwash water only undergoes primary treatment

NPDES Permit Fact Sheet  
Blythe Township Municipal Authority Silver Creek WTP

NPDES Permit No. PA0065013

Compliance History

DMR Data for Outfall 001 (from August 1, 2024 to July 31, 2025)

Parameter	JUL-25	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24
Flow (MGD) Average Monthly	0.01628 64	0.01503 34	0.01409 4	0.01234 21	0.01444 79	0.02460 5	0.02149 97	0.01784 4	0.01563 77	0.02173 69	0.02421 86	0.02363 35
Flow (MGD) Daily Maximum	0.03824 56	0.02290 7	0.02065 78	0.01869 15	0.03579 27	0.03590 55	0.02779 63	0.03439 97	0.03026 4	0.03980 5	0.04308 92	0.04440 54
pH (S.U.) Instantaneous Minimum	6.7	6.6	6.5	6.5	6.8	6.1	6.5	6.6	6.7	6.7	6.5	6.5
pH (S.U.) Instantaneous Maximum	6.8	6.9	6.9	7.0	7.1	7.1	6.9	7.0	7.3	7.3	6.9	7.4
TRC (mg/L) Average Monthly	0.05	0.06	0.04	0.05	0.05	0.06	0.06	0.05	0.13	0.05	0.04	0.04
TRC (mg/L) Daily Maximum	0.07	0.07	0.04	0.07	0.09	0.07	0.07	0.08	0.25	0.10	0.09	0.06
TSS (lbs/day) Annual Average								< 2.0				
TSS (lbs/day) Average Monthly	1.0	< 0.4	2.0	< 0.3	0.6	< 1.0	< 0.6	2.0	< 0.5	< 1.0	4.0	< 0.6
TSS (mg/L) Annual Average								< 8.25				
TSS (mg/L) Average Monthly	6.5	< 3.5	13.5	< 3.0	6.5	< 5.5	< 3.5	10.5	< 3.0	< 5.0	25.0	< 3.0
TSS (mg/L) Daily Maximum	9.0	4.0	20.0	3.0	9.0	8.0	4.0	13.0	< 3.0	< 7.0	47.0	< 3.0
TSS (mg/L) Daily Maximum								< 12.25				
Total Aluminum (lbs/day) Average Monthly	0.05	0.07	0.3	0.04	0.06	0.1	0.09	0.3	0.08	0.2	0.5	0.07
Total Aluminum (mg/L) Average Monthly	0.350	0.695	1.940	0.380	0.545	0.525	0.500	2.520	0.495	0.780	2.895	0.375
Total Aluminum (mg/L) Daily Maximum	0.350	0.830	2.840	0.450	0.730	0.680	0.520	3.750	0.570	0.830	4.840	0.400
Total Cadmium (lbs/day) Average Monthly	< 0.00003	< 0.00002	< 0.00003	< 0.00002	< 0.00002	< 0.00004	< 0.00003	< 0.00003	< 0.00003	< 0.00006	0.00003	< 0.00003

NPDES Permit Fact Sheet  
Blythe Township Municipal Authority Silver Creek WTP

NPDES Permit No. PA0065013

Total Cadmium (mg/L) Average Monthly	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00021	< 0.0002	< 0.0002	0.00018	< 0.0002
Total Cadmium (mg/L) Daily Maximum	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.00021	< 0.0002	< 0.0002	0.00021	< 0.0002
Total Copper (lbs/day) Average Monthly	< 0.002	< 0.001	< 0.001	< 0.001	0.0008	< 0.002	< 0.002	< 0.003	< 0.002	< 0.003	0.001	< 0.001
Total Copper (mg/L) Average Monthly	< 0.01	< 0.01	< 0.01	< 0.01	0.009	< 0.01	< 0.0121	< 0.0261	< 0.01	< 0.01	0.00621	< 0.00662
Total Copper (mg/L) Daily Maximum	< 0.01	< 0.01	< 0.01	< 0.01	0.0169	< 0.01	0.0141	0.0421	< 0.01	< 0.01	0.00718	< 0.01
Total Iron (lbs/day) Average Monthly	0.05	0.01	0.04	0.005	0.01	0.02	0.01	0.06	0.02	0.05	0.4	0.05
Total Iron (mg/L) Average Monthly	0.330	0.140	0.290	0.05	0.12	0.095	0.08	0.350	0.130	0.180	2.550	0.260
Total Iron (mg/L) Daily Maximum	0.400	0.160	0.400	0.050	0.180	0.140	0.080	0.360	0.150	0.190	3.960	0.320
Total Lead (lbs/day) Average Monthly	< 0.0002	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0002	< 0.0002	0.0003	< 0.0002	< 0.0003	0.0006	< 0.0001
Total Lead (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	0.00222	< 0.001	< 0.001	0.00224	< 0.001	< 0.001	0.00362	< 0.00066
Total Lead (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	0.00404	< 0.001	< 0.001	0.00312	< 0.001	< 0.001	0.00569	< 0.001
Total Manganese (lbs/day) Average Monthly	0.007	0.004	0.006	0.004	0.004	0.005	0.005	0.007	0.01	0.009	0.02	0.007
Total Manganese (mg/L) Average Monthly	0.05	0.04	0.05	0.04	0.04	0.03	0.03	0.05	0.06	0.03	0.105	0.04
Total Manganese (mg/L) Daily Maximum	0.05	0.04	0.05	0.04	0.04	0.03	0.03	0.05	0.06	0.03	0.12	0.04
Total Zinc (lbs/day) Average Monthly	0.002	0.001	0.002	0.001	0.002	0.004	0.008	0.01	0.005	0.004	0.02	0.002
Total Zinc (mg/L) Average Monthly	0.01058	0.00953	0.0138	0.0108	0.0218	0.0179	0.0452	0.0921	0.0252	0.0126	0.1455	0.011
Total Zinc (mg/L) Daily Maximum	0.0112	0.0112	0.0141	0.011	0.0325	0.0227	0.078	0.128	0.0349	0.0133	0.269	0.0117

Compliance History

Effluent Violations for Outfall 001, from: September 1, 2024 To: July 31, 2025

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
Total Iron	09/30/24	Daily Max	3.960	mg/L	1.500	mg/L

Tools and References Used to Develop Permit	
<input type="checkbox"/>	WQM for Windows Model (see Attachment )   TMS PA0065013.pdf
<input type="checkbox"/>	Toxics Management Spreadsheet (see Attachment )
<input type="checkbox"/>	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
<input type="checkbox"/>	Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.
<input type="checkbox"/>	Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
<input type="checkbox"/>	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
<input type="checkbox"/>	Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
<input type="checkbox"/>	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
<input type="checkbox"/>	Pennsylvania CSO Policy, 386-2000-002, 9/08.
<input type="checkbox"/>	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
<input type="checkbox"/>	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 386-2000-008, 4/97.
<input type="checkbox"/>	Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
<input type="checkbox"/>	Implementation Guidance Design Conditions, 386-2000-007, 9/97.
<input type="checkbox"/>	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 386-2000-016, 6/2004.
<input type="checkbox"/>	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.
<input type="checkbox"/>	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
<input type="checkbox"/>	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
<input type="checkbox"/>	Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
<input type="checkbox"/>	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
<input type="checkbox"/>	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
<input type="checkbox"/>	Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
<input type="checkbox"/>	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 10/97.
<input type="checkbox"/>	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 386-2000-020, 10/97.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 3/99.
<input type="checkbox"/>	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 386-2000-010, 3/1999.
<input type="checkbox"/>	Design Stream Flows, 386-2000-003, 9/98.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 386-2000-006, 10/98.
<input type="checkbox"/>	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.
<input type="checkbox"/>	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
<input type="checkbox"/>	 Individual SOP: Industrial Waste Effl
<input type="checkbox"/>	Other: <span style="background-color: yellow;"> </span>