

Application Type Renewal
Facility Type Industrial
Major / Minor Minor

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

Application No. PA0110761
APS ID 1081699
Authorization ID 1428239

Applicant and Facility Information

Applicant Name	<u>Shamokin Dam Borough Water & Sewer Authority</u>	Facility Name	<u>Shamokin Dam Borough Water System</u>
Applicant Address	<u>PO Box 273</u> <u>Shamokin Dam, PA 17876-0273</u>	Facility Address	<u>Helen Street</u> <u>Shamokin Dam, PA 17876-0273</u>
Applicant Contact	<u>Edward Hovenstine</u>	Facility Contact	<u></u>
Applicant Phone	<u>(570) 743-7565</u>	Facility Phone	<u>(570) 743-7565</u>
Client ID	<u>52791</u>	Site ID	<u>3269</u>
SIC Code	<u>4941</u>	Municipality	<u>Shamokin Dam Borough</u>
SIC Description	<u>Trans. & Utilities - Water Supply</u>	County	<u>Snyder</u>
Date Application Received	<u>February 15, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>February 15, 2023</u>	If No, Reason	<u></u>
Purpose of Application	<u>.Renewal of existing NPDES permit</u>		

Summary of Review

The above applicant has submitted an NPDES renewal application for their existing 0.2 MGD discharge at the above facility. The discharge is an intermittent discharge from potable water sand filter backwash water and flocculant settlings. The backwash water goes into two (2) concrete settling tanks prior to discharging to Fiss Run. Sludge is removed from the concrete tanks approximately once every 18 months.

Additional information regarding the discharge, receiving water, effluent limitations and monitoring requirements follow within this document. Based on the review of the application and permit files, it is recommended that a draft permit be sent out utilizing the public participation process described below.

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.

Approve	Deny	Signatures	Date
X		<i>Chad A. Fabian</i> Chad A. Fabian / Project Manager	March 10, 2025
X		<i>Nicholas W. Hartranft, P.E.</i> Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	March 11, 2025

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.2
Latitude	40° 51' 0.15"	Longitude	-76° 49' 1.09"
Quad Name		Quad Code	
Wastewater Description: IW Process Effluent without ELG (potable water sand filter backwash water)			
Receiving Waters	Fiss Run	Stream Code	18658
NHD Com ID	54962089	RMI	0.28
Drainage Area	0.55 mi ²	Yield (cfs/mi ²)	0.12
Q ₇₋₁₀ Flow (cfs)	0.067	Q ₇₋₁₀ Basis	Previous stream delineation
Elevation (ft)	440	Slope (ft/ft)	n/a
Watershed No.	6-A	Chapter 93 Class.	WWF
Existing Use	WWF	Existing Use Qualifier	n/a
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Impaired		
Cause(s) of Impairment	Siltation, Water/Flow Variability, Water/Flow Variability		
Source(s) of Impairment	Channelization, Road Runoff, Urban Runoff/Storm Sewers		
TMDL Status	None	Name	n/a
Nearest Downstream Public Water Supply Intake		United Water PA near Harrisburg approximately 55 miles downstream on the Susquehanna River.	

Changes Since Last Permit Issuance: None

Compliance History	
Summary of DMRs:	There have been no effluent violations in the past 2 years.
Summary of Inspections:	The most recent inspection by the Department occurred on July 7, 2024. No effluent violations were found during the inspection. The discharge was clear and there was not an impact observed below the outfall.

Other Comments: According to a WMS query, there are no open violations at the facility.

Compliance History

DMR Data for Outfall 001 (from February 1, 2024 to January 31, 2025)

Parameter	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24
Flow (MGD) Average Monthly	0.006	0.0066	0.01	0.010	0.005	0.0066	0.0066	0.0066	0.0083	0.0066	0.00668	0.00674
Flow (MGD) Daily Maximum	0.006	0.0066	0.01	0.010	0.005	0.0066	0.0066	0.0066	0.0083	0.0066	0.00668	0.00674
pH (S.U.) Daily Minimum	6.9	6.9	6.9	6.9	6.9	6.8	6.9	7.0	6.8	6.6	6.8	6.9
pH (S.U.) Daily Maximum	7.0	7.0	7.0	7.0	7.0	6.9	9.0	7.1	7.0	6.7	6.9	7.0
TRC (mg/L) Average Monthly	0.05	0.03	0.02	0.05	0.05	0.06	0.07	0.05	0.05	0.04	0.07	0.05
TRC (mg/L) Daily Maximum	0.08	0.04	0.04	0.06	0.07	0.08	0.10	0.07	0.08	0.06	0.10	0.09
TSS (mg/L) Average Monthly	< 4.0	< 4.0	< 4.0	4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	4.0	< 4.0	< 4.0
TSS (mg/L) Instantaneous Maximum	< 4.0	< 4.0	< 4.0	4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	4.0	< 4.0	< 4.0
Total Aluminum (mg/L) Average Quarterly		0.30			0.097			0.073			0.22	
Total Aluminum (mg/L) Instantaneous Maximum		0.30			0.097			0.073			0.22	
Total Iron (mg/L) Average Quarterly		< 0.05			< 0.050			< 0.05			0.096	
Total Iron (mg/L) Instantaneous Maximum		< 0.05			0.050			< 0.05			0.096	
Total Manganese (mg/L) Average Quarterly		0.20			0.81			0.37			0.71	
Total Manganese (mg/L) Instantaneous Maximum		0.20			0.81			0.37			0.71	

Water Quality Based Effluent Limitations

Previous water quality modeling did not show the need to impose any water quality based effluent limitations. Per the Department's SOP for reissuance of NPDES permits no modeling was performed on this renewal since the facility has a clean compliance history and there has been no change to the receiving stream or the discharge.

Previously TRC was evaluated using the TRC spreadsheet. The model uses the BAT standard of 0.5 mg/l, which is consistent with the Department's Guidance Document (392-2183-003) for *Technology-Based Control Requirements for Water Treatment Plants*. The model showed that the respective BAT requirement is protective of water quality standards.

Technology Based Effluent Limitations

The Department's Guidance Document (392-2183-003) for *Technology-Based Control Requirements for Water Treatment Plants* recommends the following Best Practicable Technology (BPJ):

Parameter	Existing Month Average (mg/l)	BPT recommended Monthly Average (mg/l)	BPT recommended Daily Maximum (mg/l)
Suspended Solids	30	30.0	60.0
Iron (Total)	2.0	2.0	4.0
Aluminum (Total)	2.3	4.0	8.0
Manganese (Total)	1.8	1.0	2.0
Total Residual Chlorine (TRC)	0.5	0.5	0.5
pH	6-9	6.0 to 9.0 at all times	

This draft will propose a 1.0 mg/l monthly average limitation for manganese as recommended by the respective guidance.

Anti-Backsliding

There is no anti-backsliding, or relaxation of an existing effluent limitation, proposed in this draft permit.

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (386-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Monthly Average	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	1/week	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0 Daily Max	XXX	1/week	Grab
TRC	XXX	XXX	XXX	0.5	1.0 Daily Max	XXX	1/week	Grab
TSS	XXX	XXX	XXX	30	XXX	60	1/month	Grab
Total Aluminum	XXX	XXX	XXX	2.3	XXX	4.6	1/quarter	Grab
Total Iron	XXX	XXX	XXX	2.0	XXX	4.0	1/quarter	Grab
Total Manganese	XXX	XXX	XXX	1.0	XXX	3.6	1/quarter	Grab

As previously noted, manganese limitations have been changed from 1.8 to 1.0 mg/l. No other changes to the existing effluent limitations or monitoring requirements are proposed. It is recommended the permit be drafted.