

Application Type Renewal
Facility Type Industrial
Major / Minor Minor

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

Application No. PA0064343
APS ID 844484
Authorization ID 1389653

Applicant and Facility Information

Applicant Name	<u>Pennsylvania American Water</u>	Facility Name	<u>Stony Garden WTP</u>
Applicant Address	<u>1799 Jumper Road</u> <u>Wilkes-Barre, PA 18702</u>	Facility Address	<u>Route 33 & Route 115</u> <u>Wind Gap, PA 18091</u>
Applicant Contact	<u>Charles Motley</u>	Facility Contact	<u>Carada Springstead</u>
Applicant Phone	<u>(570) 575-2072</u>	Facility Phone	<u>(610) 248-7934</u>
Client ID	<u>87712</u>	Site ID	<u>583051</u>
SIC Code	<u>4941</u>	Municipality	<u>Hamilton Township</u>
SIC Description	<u>Trans. & Utilities - Water Supply</u>	County	<u>Monroe</u>
Date Application Received	<u>March 24, 2022</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>March 24, 2022</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of NPDES permit.</u>		

Summary of Review

The applicant is requesting renewal of their NPDES permit to discharge treated industrial wastewater to Ross Common Creek (stream code 3853), a HQ-CWF/MF designated receiving water in State Water Plan Basin 02-B (Middle Lehigh River). As per the Department's current existing use list, the receiving stream now has an Exceptional Value designation.

As with the previous renewal, the discharge was modeled using a 0.168 MGD discharge value and an antidegradation analysis is not required. eDMR indicates this facility discharged during one month over the previous permit term (August 2021 – average monthly flow 0.169 MGD). USGS StreamStats was used to develop a low flow yield (LFY) of 0.115 cfs/mi². Estimated flow data from the confluence of Ross Common Creek and Aquashicola Creek was used since the drainage area at Outfall 001 on Ross Common Creek was too small for StreamStats to return a reliable value. There are no nearby representative stream gages to obtain actual flow data from to develop a LFY. Drainage areas, elevations and RMIs were obtained using USGS's StreamStats and PA DEP's eMapPA.

All limitations and monitoring requirements from the previously issued permit are carried over for this renewal as well as Part C conditions and Part A footnotes. The technology-based limitations for pH, TSS, Total Iron & Total Manganese were developed using the Department's *Technology-Based Control Requirements for Water Treatment Plant Wastes* guidance document (doc. no. 362-2183-003, rev. 10/1/1997). Total Aluminum limitations are included in the guidance, however, the water quality-based limitations for Total Aluminum are more stringent and included in this renewal.

The discharge was modeled using DEP's Toxics Management Spreadsheet and the TRC Calculation Spreadsheet. New limitations were recommended for Total Copper and are included in this renewal. The water quality-based limitations for TRC, Total Aluminum and Total Zinc are carried over from the previous renewal.

Total Thallium limitations were included in the last permit since reasonable potential was established through water quality modeling using PENTOX and the Toxics Screening Analysis spreadsheet (see attached fact sheet from previous permit).

Approve	Deny	Signatures	Date
X		<i>Brian Burden</i> Brian Burden, E.I.T. / Project Manager	April 21, 2023
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Environmental Engineer Manager	4-24-23

Summary of Review

Thallium was detected at a level of 0.938 µg/L, which is below the Department's target QL of 2 µg/L. Modeling indicated the most stringent WQBEL was 0.521 µg/L and based on THH, however, the limits included in the previous permit document were: 335 µg/L monthly average, 523 µg/L daily maximum & 837 µg/L IMAX. When modeling the discharge with the Toxics Management Spreadsheet, the following limitations are recommended and included in this renewal: 0.53 µg/L monthly average, 0.83 µg/L daily maximum & 1.33 µg/L IMAX. The template Part C special condition for WQBELs below the target QL is included in the permit.

Total Zinc limitations were included in the previous permit, however, the Toxics Screening Analysis spreadsheet indicated only monitoring/reporting was required. It was determined the most stringent WQBEL was 101.461 µg/L, but the following limitations were included in the permit: 21 µg/L monthly average, 34 µg/L daily maximum & 54 µg/L IMAX. The previous permit application included a Total Zinc pollutant group sampling concentration of 21.8 µg/L. The Toxics Management Spreadsheet recommends only monitoring/reporting and Part A of this permit renewal will be adjusted accordingly.

The DRBC-initiated limitations for Total Dissolved Solids are carried over from the previous renewal. Monitoring requirements for duration of discharge, turbidity, TN, TKN, TP and Acrylamide are carried over from the previous renewal. Monitoring requirements for Nitrate as N and Nitrite as N are replaced with Nitrate+Nitrite as N for this renewal. The minimum measurement frequency of "weekly when discharging" is carried over from the previous permit for all parameters except turbidity. Turbidity must be monitored every two hours during periods of dewatering the sedimentation basins. Dewatering of the basins shall cease immediately when turbidity in any sample exceeds 100 NTU.

The previously issued permit expired on September 30, 2022 and the application for permit renewal was submitted in a timely manner.

DRBC Docket D-2010-025 CP-3 did not include any additional monitoring requirements or limitations to include in the NPDES permit.



[DRBC Docket.pdf](#)



[TMS PA0064343.pdf](#)



[TRC Calculation.pdf](#)



[StreamStats Outfall
001.pdf](#)



[StreamStats
Aquashicola Conflu](#)



[2017 Fact Sheet.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>0.168</u>
Latitude	<u>40° 52' 6"</u>	Longitude	<u>-75° 17' 46"</u>
Quad Name	<u>Wind Gap</u>	Quad Code	<u>1243</u>
Wastewater Description: <u>Water Treatment Effluent</u>			
Receiving Waters	<u>Ross Common Creek</u>	Stream Code	<u>3853</u>
NHD Com ID	<u>26290883</u>	RMI	<u>2.3 (eMap)</u>
Drainage Area	<u>2.75 mi²</u>	Yield (cfs/mi ²)	<u>0.115</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.316</u>	Q ₇₋₁₀ Basis	<u>USGS StreamStats (confluence of Ross Common Creek w/ Aquashicola Creek)</u>
Elevation (ft)	<u>897</u>	Slope (ft/ft)	<u>0.022</u>
Watershed No.	<u>2-B</u>	Chapter 93 Class.	<u>HQ-CWF, MF (EV, MF existing use)</u>
Existing Use	<u>-</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u>-</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u>-</u>		
Source(s) of Impairment	<u>-</u>		
TMDL Status	<u>-</u>	Name	<u>-</u>
Background/Ambient Data		Data Source	
pH (SU)	<u>-</u>	<u>-</u>	
Temperature (°F)	<u>-</u>	<u>-</u>	
Hardness (mg/L)	<u>-</u>	<u>-</u>	
Other:	<u>-</u>	<u>-</u>	
Nearest Downstream Public Water Supply Intake	<u>Northampton Borough Municipal Authority</u>		
PWS Waters	<u>Lehigh River</u>	Flow at Intake (cfs)	<u>108</u>
PWS RMI	<u>24.8 (eMap)</u>	Distance from Outfall (mi)	<u>~33</u>

Changes Since Last Permit Issuance: The previous fact sheet indicates a Palmerton Borough MA intake on Aquashicola Creek is the nearest PWS intake location. The NERO Surface Sources GIS map provided by the Department's Safe Drinking Water program does not show an intake on Aquashicola Creek.

The existing use of the receiving stream is now EV, MF.