pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0062588**
Facility Type	**Industrial**	APS ID	**609043**
Major / Minor	**Minor**	Authorization ID	**1421939**

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

Applicant and Facility Information

Applicant Name	**Pennsylvania American Water Company**	Facility Name	**Ceasetown WTP**
Applicant Address	2699 Stafford Ave.	Facility Address	56 Reservoir Road
	Scranton, PA 18606		Dallas, PA 18612
Applicant Contact	Nancy Donahue	Facility Contact	Zack Kaufer
Applicant Phone	(570) 362-4339	Facility Phone	(570) 675-4210 x2
Client ID	87712	Site ID	452022
SIC Code	4941	Municipality	Jackson Township
SIC Description	Trans. & Utilities - Water Supply	County	Luzerne
Date Application Received	December 27, 2022	EPA Waived?	Yes
Date Application Accepted	December 27, 2022	If No, Reason	-

Purpose of Application: Renewal of NPDES permit.

Summary of Review

The applicant is requesting renewal of an NPDES permit for its Ceasetown Water Treatment Plant to continue the discharge of filter backwash and miscellaneous plant water to Pikes Creek a HQ-CWF/MF (High Quality – Cold Water and Migratory Fishery) receiving stream in State Water Plan Basin 05-B (Toby – Wapwallopen Creeks). Per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than the designated use. The discharge is not expected to affect public water supplies.

A design discharge flow of 0.435 MGD was used in the previous permit for modeling purposes. The application indicates during the past two years there were only 141 days when a discharge occurred, and the average flow for those days was 0.601 MGD. For this renewal, the discharge was modeled using a design discharge flow of 0.601 MGD. Since Pikes Creek is designated as a high-quality receiving stream, antidegradation requirements were considered.

An antidegradation analysis and the applicable permit application module must be submitted unless the increased flow can be categorized as "incremental" and not considered "new, additional, or increased". For industrial wastewater point source discharges, flows are considered to be "new, additional, or increased" when a.) projected wastewater flow will cause the treatment facility receiving the incremental flow to exceed hydraulic or organic design capacity; or b.) projected incremental wastewater flow will originate from changes in production methods that alter wastewater characteristics from those originally permitted in the design of the treatment facility.

Regarding a.) and b.) above, the permittee stated: "*The increased flow is not attributable to any increase in process wastewater flows but rather related to a decrease in the lagoon supernatant recycle flows. Declining flows were noted from the supernatant recycle system and subsequently the supernatant pumps were replaced approximately 3 years ago with new in-kind pumps along with VFD drives. Despite the replacement the flows continued to decline from what was anticipated and further evaluation indicated a likely blockage or restriction on the supernatant return line back to the plant. The current piping is encased in concrete and not directly accessible to allow for cleaning. Plans to improve the line by exposing a section and*

Approve	Deny	Signatures	Date
X		Brian Burden Brian Burden, E.I.T. / Project Manager	December 13, 2023
X		Amy M. Bellanca Amy M. Bellanca, P.E. / Program Manager	1-11-24

Summary of Review

installing cleanout facilities are in place. Flow data in the attached graph from 2013 through current show a slightly declining trend overall with a greater rate in decline for the supernatant recycle which is indicative of the conditions within the piping. Process wastewater that is not recycled is ultimately discharged. The overall flow through the lagoons has not materially changed in quality or quantity beyond the noted slight decreased flows overall and as such Item "a" does not apply.

The raw water source and related plant processes have not been changed from that originally permitted during plant construction and commissioning with the primary coagulant used remaining aluminum sulfate. Additionally, there have been no identified changes in the source water quality being treated that would indicate a change in the process wastewater resulting from the treatment processes. As such the wastewater characteristics would not have changed from those originally permitted. Item "b" does not apply."

The technology-based limits for TSS, Total Iron, Total Manganese, and pH are consistent with Department guidance (Technology-Based Control Requirements for Water Treatment Plant Wastes, Doc. No. 362-2183-003). The water quality-based limits for Total Aluminum are more stringent than the technology-based requirements from the guidance document. DEP's Toxics Management Spreadsheet (TMS) didn't recommend more stringent Total Aluminum limitations for this renewal. Mass-based limitations for Total Aluminum were recalculated using the average flow of 0.601 MGD. The TMS recommended monitoring/reporting requirements for Total Copper based on the pollutant group sampling results submitted with the renewal application.

The TRC calculation spreadsheet didn't recommend more stringent limitations for TRC and the water quality-based limitations from the previous permit are carried over in this renewal.

Water quality management permit amendment 4091202 A-1 was issued on 12/6/2021 for the installation of a mesh screen on the outlet structure of each lagoon at the site. The previously issued NPDES permit expired on June 30, 2023 and the renewal application was received in a timely manner.

TMS PA0062588.pdf TRC Calculation.pdf StreamStats Outfall.pdf StreamStats Downstream.pdf Elevations RMIs.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.	001	Design Flow (MGD)	0.601
Latitude	41º 15' 44"	Longitude	-76º 2' 30"
Quad Name	Harveys Lake	Quad Code	0837
Wastewater Description:	Intermittent Discharge		
Receiving Waters	Pikes Creek (HQ-CWF, MF)	Stream Code	28323
NHD Com ID	65633875	RMI	0.5
Drainage Area	10.4 mi^2	Yield (cfs/mi^2)	0.1
Q_{7-10} Flow (cfs)	1.04	Q_{7-10} Basis	Default LFY
Elevation (ft)	973	Slope (ft/ft)	0.014
Watershed No.	5-B	Chapter 93 Class.	HQ-CWF, 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	-

Background/Ambient Data		Data Source
pH (SU)	-	-
Temperature (°F)	-	-
Hardness (mg/L)	-	-
Other:	-	-

Nearest Downstream Public Water Supply Intake	Danville Municipal Water Authority		
PWS Waters	Susquehanna River	Flow at Intake (cfs)	1123
PWS RMI	122.5	Distance from Outfall (mi)	~48

Changes Since Last Permit Issuance: Issuance of WQM permit amendment 4091202 A-1.