

Application Type Amendment, Major
 Facility Type Municipal
 Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0021512 A-1
 APS ID 1151695
 Authorization ID 1551252

Applicant and Facility Information

Applicant Name	<u>PA American Water Co.</u>	Facility Name	<u>Borough Of Royersford STP & Sewer System</u>
Applicant Address	<u>852 Wesley Drive</u> <u>Mechanicsburg, PA 17055-4436</u>	Facility Address	<u>600 S First Avenue</u> <u>Royersford, PA 19468</u>
Applicant Contact	<u>Kristn May</u>	Facility Contact	<u>Jack Huzzard</u>
Applicant Phone	<u>(484) 946-7453</u>	Facility Phone	<u>(610) 721-4532</u>
Client ID	<u>87712</u>	Site ID	<u>256634</u>
Ch 94 Load Status	<u>Existing Hydraulic Overload</u>	Municipality	<u>Upper Providence Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Montgomery</u>
Date Application Received	<u>December 5, 2025</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u></u>	If No, Reason	<u></u>
Purpose of Application	<u>Permit amendment to switch from Chlorine to UV disinfection.</u>		

Summary of Review

The permittee has submitted a permit amendment to switch from Chlorine disinfection to UV disinfection for their treated sewage discharge to Schuylkill River (WWF, MF) through Outfall 001.

The facility is serving Royersford Borough (91%), Limerick Township (8%) and Upper Providence Township (1%).

Two influent streams enter the plant at separate locations. One stream, collecting from north side of the borough, empties into a wet well which has a muffin monster. The other side collects from the south and east sides of the borough. Both passes through Lakeside mechanical screen. Both sides are metered for flow. The flow then goes into Primary clarifiers (3), then trickling filters (2) and secondary clarifiers (3), and then chlorine contact tanks (2) and stream discharge. Sludge is anaerobic digested and store in sludge vaults prior to haul off at local POTW (Pottstown) for final disposal.

The Royersford Borough Wastewater Treatment Plant (WWTP) is owned and operated by the Pennsylvania American Water Company (PAWC). The WWTP treats wastewater originating from the Borough of Royersford and maintains a sewer service agreement with Limerick Township, Montgomery County to receive and treat wastewater from a small portion of Limerick Township on the northeast corner of Royersford. There are also sixteen (16) connections in Upper Providence Township, Montgomery County on the southeast border with Royersford that are directly connected to the WWTP rather than being treated at the Lower Perkiomen Valley Regional Sewer Authority Oaks WWTP.

The WWTP is located at 600 South First Avenue in Upper Providence Township, Montgomery County. The PAWC has converted their chlorine disinfection system into an ultraviolet (UV) disinfection system.

Approve	Deny	Signatures	Date
X		<i>Christian French</i> Christian French / Environmental Engineering Specialist	April 9, 2026
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	April 9, 2026

Summary of Review

Ultraviolet Disinfection System:

Manufacturer: Trojan UV
Model: Trojan UV Signa
Number of Units: 2 (1 duty + 1 standby at peak hourly flow)
Peak Hourly Flow: 2.4 MGD
UV Transmission: 55 % minimum
Total Suspended Solids: 30 mg/l
Minimum Dose: > 50 mJ/cm²
Discharge Limit: 200 Fecal Coliform (30 Day Geometric Mean)
Cleaning System: Automatic in-situ cleaning system
UV Intensity: Monitored by UV sensor
Dose Pacing: Lamp UV output is modulated based on effluent flow rate

Flood Pumps

Manufacturer: Flygt
Number of Pumps: 3 (2 operating, 1 Standby)
Model: NP 3127 LT3~Adaptive 426
Flow: 850 gpm per pump
Total Dynamic Head: 19 feet
Power: 10 Hp

WQM permit no. 4606408 was amended 6/7/2024

Latest inspection by Operations Section was 2/19/2026 with no violations currently open

Act 14 notifications were distributed to Montgomery County and Royersford Borough 9/22/2025

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>0.7</u>
Latitude	<u>40° 10' 36.21"</u>	Longitude	<u>-75° 32' 29.23"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Schuylkill River (WWF, MF)</u>	Stream Code	<u>00833</u>
NHD Com ID	<u>133228812</u>	RMI	<u></u>
Drainage Area	<u>1200</u>	Yield (cfs/mi ²)	<u></u>
Q ₇₋₁₀ Flow (cfs)	<u>274</u>	Q ₇₋₁₀ Basis	<u>DRBC DOCKET NO. D-2006-045 CP-3</u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>3-D</u>	Chapter 93 Class.	<u>WWF, MF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>POLYCHLORINATED BIPHENYLS (PCBS)</u>		
Source(s) of Impairment	<u>SOURCE UNKNOWN</u>		
TMDL Status	<u>Final</u>	Name	<u>Schuylkill River PCB TMDL</u>
Nearest Downstream Public Water Supply Intake	<u>Phoenixville Borough</u>		
PWS Waters	<u></u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u>1.7</u>

Treatment Facility Summary

Treatment Facility Name: Royersford Borough STP

WQM Permit No.	Issuance Date

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Trickling Filter With Settling	Gas Chlorine	0.7
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
1.0	1751	Existing Hydraulic Overload	Anaerobic Digestion	Other WWTP

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" (362-0400-001), 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	Weekly Average	Instantaneous Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
Dissolved Oxygen	XXX	XXX	5.0	XXX	XXX	XXX	1/day	Grab
Total Residual Chlorine (TRC)	XXX	XXX	XXX	0.5	XXX	1.2	Daily when Discharging	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5) Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Carbonaceous Biochemical Oxygen Demand (CBOD5)	117	175	XXX	20.0	30.0	40	1/week	24-Hr Composite
Biochemical Oxygen Demand (BOD5) Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Total Suspended Solids	117	175	XXX	20.0	30.0	40	1/week	24-Hr Composite
Total Suspended Solids Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Total Dissolved Solids	XXX	XXX	XXX	1000.0	2000.0 Daily Max	2500	1/month	24-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab

Outfall 001 , Continued (from 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	Weekly Average	Instantaneous Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Ultraviolet light intensity (mW/cm ²)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Measured
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/month	Calculation
Ammonia-Nitrogen	35	XXX	XXX	6.0	XXX	12	1/week	24-Hr Composite
Total Phosphorus	12	XXX	XXX	2.0	XXX	XXX	1/week	24-Hr Composite
PCBs Dry Weather Analysis (pg/L)	XXX	XXX	XXX	Report Daily Max	XXX	XXX	1/year	24-Hr Composite

Compliance Sampling Location: Outfall 001

* shall not exceed in more than 10 percent of samples. See Permit's Part C – Other Requirements – H.