

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0026255 A-1
 APS ID 1095674
 Authorization ID 1452312

Applicant and Facility Information

Applicant Name	<u>Allegheny Valley Joint Sewer Authority</u>	Facility Name	<u>Allegheny Valley Joint Sewer Authority STP</u>
Applicant Address	<u>2400 Freeport Road</u> <u>Cheswick, PA 15024-0158</u>	Facility Address	<u>2400 Freeport Road</u> <u>Pittsburgh, PA 15238-1408</u>
Applicant Contact	<u>Tim Kephart</u>	Facility Contact	<u>Same as Applicant</u>
Applicant Phone	<u>(412) 828-7227</u>	Facility Phone	<u>(412) 828-7227</u>
Client ID	<u>82759</u>	Site ID	<u>714426</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Harmar Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Allegheny</u>
Date Application Received	<u>August 24, 2023</u>	EPA Waived?	<u>No</u>
Date Application Accepted	<u>August 30, 2023</u>	If No, Reason	<u>Major Facility, Pretreatment</u>
Purpose of Application	<u>Application for an amendment to an existing NPDES Permit</u>		

Summary of Review

Allegheny Valley Joint Sewer Authority (AVJSA) has applied for an amendment to NPDES Permit No. PA0026255. NPDES Permit No. PA0026255 was previously issued by the Department of Environmental Protection (DEP) on February 7, 2022 and expires February 28, 2027.

WQM Permit No. 0276461 A-3, issued March 9, 2020, approved improvements to AVJSA's collection and treatment plant including Ultraviolet (UV) disinfection installation. The UV disinfection installation has been completed; therefore, the permit is being amended to remove the TRC limit and impose daily UV transmittance reporting.

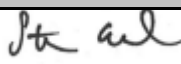

Part C.I.D of the original permit, which was a condition requiring chlorine minimization has been removed from the draft permit and has been replaced by what was previously Part C.I.E.

No other changes are being made to the permit.

There are no open violations for AVJSA (Client ID 82759).

Anti-Backsliding

Section 402(o) of the Clean Water Act (CWA), enacted in the Water Quality Act of 1987, establishes anti-backsliding rules governing two situations. The first situation occurs when a permittee seeks to revise a Technology-Based effluent limitation based on BPJ to reflect a subsequently promulgated effluent guideline which is less stringent. The second situation addressed by Section 402(o) arises when a permittee seeks relaxation of an effluent limitation which is based upon a State treatment standard of water quality standard.

Approve	Deny	Signatures	Date
X		 Stephanie Conrad / Environmental Engineering Specialist	September 22, 2023
x		 Mahbuba Iasmin, Ph.D., P.E. / Environmental Engineering Manager	October 30, 2023

Summary of Review

Previous limits can be used pursuant to EPA's anti-backsliding regulation 40 CFR 122.44 **(I) Reissued permits. (1) Except as provided in paragraph (I)(2) of this section when a permit is renewed or reissued. Interim effluent limitations, standards or conditions must be at least as stringent as the final effluent limitations, standards, or conditions in the previous permit (unless the circumstances on which the previous permit was based have materially and substantially changed since the time the permit was issued and would constitute cause for permit modification or revocation and reissuance under §122.62). (2) In the case of effluent limitations established on the basis of Section 402(a)(1)(B) of the CWA, a permit may not be renewed, reissued, or modified on the basis of effluent guidelines promulgated under section 304(b) subsequent to the original issuance of such permit, to contain effluent limitations which are less stringent than the comparable effluent limitations in the previous permit.**

The facility is not seeking to revise the previously permitted effluent limits.

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>5.5</u>
Latitude	<u>40° 31' 48"</u>	Longitude	<u>-79° 50' 53"</u>
Quad Name	<u>New Kensington West</u>	Quad Code	<u>1407</u>
Wastewater Description: <u>Effluent</u>			

Receiving Waters	<u>Allegheny River</u>	Stream Code	<u>42122</u>
NHD Com ID	<u>123972840</u>	RMI	<u>12.9</u>
Drainage Area	<u>11600</u>	Yield (cfs/mi ²)	<u>0.206</u>
Q ₇₋₁₀ Flow (cfs)	<u>2,390</u>	Q ₇₋₁₀ Basis	<u>US Army Corp of Engineers</u>
Elevation (ft)	<u>721</u>	Slope (ft/ft)	<u>0.001</u>
Watershed No.	<u>18-A</u>	Chapter 93 Class.	<u>WWF</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>FLOW REGIME MODIFICATION, METALS, NUTRIENTS, SILTATION, TOTAL DISSOLVED SOLIDS (TDS), TOTAL DISSOLVED SOLIDS (TDS), TURBIDITY</u>
Source(s) of Impairment	<u>ACID MINE DRAINAGE, ACID MINE DRAINAGE, CONSTRUCTION, CONSTRUCTION, CONSTRUCTION, SOURCE UNKNOWN, SUBSURFACE (HARDROCK) MINING</u>

TMDL Status	<u></u>	Name	<u></u>
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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>Wilksburg-Penn Joint Water Authority</u>
PWS Waters	<u>Allegheny River</u>
PWS RMI	<u>8.72</u>
	Flow at Intake (cfs) <u></u>
	Distance from Outfall (mi) <u>4.18</u>

Changes Since Last Permit Issuance: None

Treatment Facility Summary				
Treatment Facility Name: Allegheny Valley Joint Sewer Authority STP				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Activated Sludge With Solids Removal	Ultraviolet	5.5
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
5.5	12100	Not Overloaded	Anaerobic and Aerobic Digestion	Disposed of in Monroeville Landfill

Changes Since Last Permit Issuance: Since the last NPDES renewal in February 2022, no new WQM permits for the STP upgrades have been issued. WQM permit no. 0276461 A-3 was issued March 9, 2020 and approved upgrades to the treatment plant including switching from Chlorine disinfection to UV disinfection installed.

General permit WQG02022202 was issued September 14, 2022 and approved a grinder pump and pressure sewer system serving a new development with 52 EDUs.

Development of Effluent Limitations

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>5.5</u>
Latitude	<u>40° 31' 48.00"</u>	Longitude	<u>-79° 50' 53.00"</u>
Wastewater Description:	<u>Effluent</u>		

UV Monitoring

In accordance with Section I.A. DEP's SOP for *Establishing Effluent Limitations for Individual Sewage Permits* [SOP No. BCW-PMT-033 Version 1.9], when UV disinfection is used, TRC limits are not applicable. Routine UV transmittance (%) monitoring is being imposed at the same monitoring frequency that would be used for TRC.

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	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/day	Metered
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	4.0 Inst Min	XXX	XXX	XXX	1/day	Grab
Ultraviolet light transmittance (%)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Measured
Carbonaceous CBOD ₅	1145	1830	XXX	25.0	40.0	50	1/day	24-Hr Composite
BOD ₅ Raw Sewage Influent	Report	Report	XXX	Report	XXX	XXX	+1/day	24-Hr Composite
TSS Raw Sewage Influent	Report	Report	XXX	Report	XXX	XXX	1/day	24-Hr Composite
TSS	1375	2060	XXX	30.0	45.0	60	1/day	24-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/day	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/day	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/month	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/quarter	24-Hr Composite
Ammonia	XXX	XXX	XXX	Report	XXX	XXX	1/day	24-Hr Composite

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	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Total Phosphorus	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/quarter	24-Hr Composite

Compliance Sampling Location:

Other Comments: