

Application Type Renewal
Facility Type Non-Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0215872
APS ID 1059668
Authorization ID 1389895

Applicant and Facility Information

Applicant Name	<u>Jonathan R. Luciana</u>	Facility Name	<u>Luciana SRSTP</u>
Applicant Address	<u>1989 Drennen Road</u> <u>New Kensington, PA 15068-1804</u>	Facility Address	<u>1989 Drennen Road</u> <u>New Kensington, PA 15068-1804</u>
Applicant Contact	<u>Johnathan Luciana</u>	Facility Contact	<u>Same as applicant</u>
Applicant Phone	<u>724-831-7061</u>	Facility Phone	<u>Same as applicant</u>
Client ID	<u>334806</u>	Site ID	<u>718094</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Plum Borough</u>
Connection Status	<u>No Limitations</u>	County	<u>Allegheny</u>
Date Application Received	<u>March 3, 2022</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>April 21, 2022</u>	If No, Reason	<u></u>
Purpose of Application	<u>Renewal of NPDES permit for discharge of treated sewage.</u>		

Summary of Review

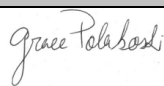
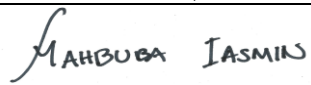
The applicant has applied for a renewal of NPDES Permit No. PA0215872, which was previously issued by the Department on August 8, 2017 and will expire on August 31, 2022.

WQM Permit No. 0292419 for this facility was transferred to the current owner on August 8, 2017.

The existing system is a JetAerobic system with chlorination.

In the previous cycle, the facility was permitted with CBOD₅ limits. Due to a revision (dated May 17, 2019) in Department SOP "New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications" (BCW-PMT-003), the facility will be permitted with BOD₅ limits this cycle. Pollutant monitoring in the previous permit was set at "1/6 months." Sampling frequency has been updated in this permit to be "1/year" to correspond with Department SOP "New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications" (BCW-PMT-033).

The permittee was in touch with the Department on February 22, 2022 to discuss AMRs, DMRs, and sampling results. The permittee had not been sampling and therefore did not have effluent data to report on the application. The permittee was advised by the Department on February 23, 2022 and February 24, 2022 that sampling and completing both the AMRs and DMRs are requirements of the NPDES permit and that continuing to fail to do so will result in compliance action. The permittee was also advised by the Department to coordinate sampling questions with the Allegheny County Health Department.

Approve	Deny	Signatures	Date
X		 Grace Polakoski, E.I.T. / Environmental Engineering Specialist	May 5, 2022
X		 Mahbuba Iasmin, Ph.D., P.E. / Environmental Engineer Manager	June 24, 2022

Summary of Review

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>.0004</u>
Latitude	<u>40° 31' 33"</u>	Longitude	<u>-79° 42' 10"</u>
Quad Name	<u>New Kensington East</u>	Quad Code	<u>40079E6</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Pucketa Creek (TSF)</u>	Stream Code	<u>42376</u>
NHD Com ID	<u>123972348</u>	RMI	<u>4.34</u>
Drainage Area	<u>17.5 sq. mi.</u>	Yield (cfs/mi ²)	<u>0.0157</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.274</u>	Q ₇₋₁₀ Basis	<u>USGS StreamStats</u>
Elevation (ft)	<u>891</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>18-A</u>	Chapter 93 Class.	<u>TSF</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>N/A</u>		
Source(s) of Impairment	<u>N/A</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>West Penn Power Springdale Sta</u>		
PWS Waters	<u>Allegheny River</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u>4.61</u>

Changes Since Last Permit Issuance: N/A

Treatment Facility Summary				
Treatment Facility Name: Luciana SRSTP				
WQM Permit No.		Issuance Date		
0292419 T-3		08/08/2017		
0292419 T-2		09/01/2009		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Hypochlorite	0.0004
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0004	0.80	Not Overloaded	N/A	Combination of methods

Changes Since Last Permit Issuance: N/A

Compliance History

Facility: Luciana SRSTP

NPDES Permit No.: PA0215872

Compliance Review Period: 5/2017 – 5/2022

Inspection Summary:

INSP ID	INSPECTED DATE	INSP TYPE	AGENCY	INSPECTION RESULT DESC
3255214	09/22/2021	Compliance Evaluation	County Health Dept	No Violations Noted

Violation Summary: No violations

Open Violations by Client ID: No open CW violations for Client ID 334806

Enforcement Summary: No enforcements

DMR Violation Summary: No DMR violations

Compliance Status: Operations will monitor DMR exceedances. Permit issuance is recommended.

Completed by: John Murphy

Completed date: 5/5/2022

Development of Effluent Limitations

Outfall No. 001	Design Flow (MGD) .0004
Latitude 40° 31' 33.00"	Longitude -79° 42' 10.00"
Wastewater Description: Sewage Effluent	

Technology-Based Limitations

The following effluent limitations and monitoring requirements, at a minimum, will be established in all new and renewed SRSTP permits based on the requirements of DEP’s “Standard Operating Procedure (SOP) for Clean Water Program New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Application” (SOP No. BCW-PMT-003, Version 1.8, Final, November 9, 2012, Revised May 17, 2019).

Parameter	Avg	IMAX	Sample Type	Frequency: SFTFs	Frequency: SRSTPs
Flow (GPD)	Report	XXX	Estimate (SRSTPs) Measured (SFTFs)	1/month	1/year
BOD5 (mg/L)	10	20	Grab	1/month	1/year
TSS (mg/L)	10	20	Grab	1/month	1/year
pH*	6.0 S.U. Inst. Min.	9.0 S.U.	Grab	1/month	1/year
TRC (mg/L)	Report for SRSTPs; Use TRC Spreadsheet to determine WQBELs or 0.02 mg/L for SFTFs		Grab	1/month	1/year
Fecal Coliform (No./100 ml)	200 Geometric Mean (SFTFs) / Average (SRSTPs)		Grab	1/month	1/year

* Technology-Based effluent limits for pH will be imposed based upon Federal Regulation 133.102(c) and State Regulation 95.2(1).

Additional Considerations:

For SFTFs/SRSTPs with UV disinfection systems, it is not necessary to require UV intensity or transmittance monitoring in this permit.

SFTFs/SRSTPs are not required to monitor for Total Nitrogen and Total Phosphorus in new and reissued permits.

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	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (GPD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/year	Grab
TRC	XXX	XXX	XXX	Report	XXX	Report	1/year	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200.0	XXX	1000.0	1/year	Grab

Compliance Sampling Location: Outfall 001

ATTACHMENT A:
USGS STREAMSTATS

StreamStats Report

Region ID: PA
 Workspace ID: PA20220505192010224000
 Clicked Point (Latitude, Longitude): 40.52590, -79.70274
 Time: 2022-05-05 15:20:30 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	17.5	square miles
ELEV	Mean Basin Elevation	1154	feet

Low-Flow Statistics Parameters [100.0 Percent (17.5 square miles) Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	17.5	square miles	2.26	1400

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
ELEV	Mean Basin Elevation	1154	feet	1050	2580

Low-Flow Statistics Flow Report [100.0 Percent (17.5 square miles) Low Flow Region 4]

PIl: Prediction Interval-Lower, PIu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	SE	ASEp
7 Day 2 Year Low Flow	0.709	ft ³ /s	43	43
30 Day 2 Year Low Flow	1.19	ft ³ /s	38	38
7 Day 10 Year Low Flow	0.274	ft ³ /s	66	66
30 Day 10 Year Low Flow	0.472	ft ³ /s	54	54
90 Day 10 Year Low Flow	0.832	ft ³ /s	41	41

Low-Flow Statistics Citations

Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)

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Application Version: 4.8.1

StreamStats Services Version: 1.2.22

NSS Services Version: 2.1.2