

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SFTF/SRSTP**

Application No. PA0284831  
APS ID 1058675  
Authorization ID 1388237

**Applicant, Facility and Project Information**

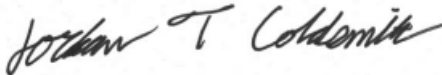

Applicant Name	<u>Shaun Lacey</u>	Facility Name	<u>Lacey Properties SRSTP</u>
Applicant Address	<u>1527 Peninsula Drive</u> <u>Central City, PA 15926-9123</u>	Facility Address	<u>1527 Peninsula Drive</u> <u>Central City, PA 15926-9123</u>
Applicant Contact	<u>Shaun Lacey</u>	Facility Contact	<u>Shaun Lacey</u>
Applicant Phone	<u>(412) 953-0273</u>	Facility Phone	<u>(412) 953-0273</u>
Client ID	<u>368683</u>	Site ID	<u>855822</u>
SIC Code	<u>4952</u>	Municipality	<u>Indian Lake Borough</u>
SIC Description	<u>Sewerage Systems</u>	County	<u>Somerset</u>
Date Application Received	<u>February 28, 2022</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>March 17, 2022</u>	WQM App. No.	<u>5622400</u>
Project Description	<u>Application of a new NPDES Permit for discharge of treated sewer.</u>		

**Summary of Review**

The applicant is proposed to construct a 0.0007 MGD Single Residence Sewage Treatment Plant (SRSTP).  
The Discharge is to UNT 45757 to Rhoads Creek, which is classified as Cold-Water Fishes (CWF), located in watershed 18E  
Act 537 was approved for this project on December 6, 2021

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.

Approve	Deny	Signatures	Date
X		 Jordan Coldsmith / Environmental Engineering Specialist	May 4, 2022
X		 Christopher Kriley, P.E. / Environmental Program Manager	June 6, 2022

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0007</u>
Latitude	<u>40° 2' 16"</u>	Longitude	<u>-78° 51' 58"</u>
Quad Name	<u>Central City</u>	Quad Code	<u>40078A7</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Rhoads Creek (CWF)</u>	Stream Code	<u>45757</u>
NHD Com ID	<u>123716708</u>	RMI	<u>0.55</u>
Drainage Area	<u>5.81</u>	Yield (cfs/mi <sup>2</sup> )	<u>0.06747</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.392</u>	Q <sub>7-10</sub> Basis	<u>USGS StreamStat</u>
Elevation (ft)	<u>2583</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>18-E</u>	Chapter 93 Class.	<u>CWF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Not Assessed</u>		
Cause(s) of Impairment	<u></u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u>Final</u>	Name	<u>Kiskiminetas-Conemaugh River Watersheds TMDL</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>Hooversville Muni Auth</u>		
PWS Waters	<u>Stoneycreek River (TSF)</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u>15.65</u>

Changes Since Last Permit Issuance: N/A

Other Comments: None

Treatment Facility Summary				
<b>Treatment Facility Name:</b> Lacey Properties SRSTP				
<b>WQM Permit No.</b>		<b>Issuance Date</b>		
5622400		Under Department Review		
<b>Waste Type</b>	<b>Degree of Treatment</b>	<b>Process Type</b>	<b>Disinfection</b>	<b>Avg Annual Flow (MGD)</b>
Sewage	Tertiary	Aerobic Tank	UV	0.0007
<b>Hydraulic Capacity (MGD)</b>	<b>Organic Capacity (lbs/day)</b>	<b>Load Status</b>	<b>Biosolids Treatment</b>	<b>Biosolids Use/Disposal</b>
0.0007		Not Overloaded		Other WWTP

Changes Since Last Permit Issuance: N/A. New Issuance.

Other Comments: WQM permit No. 5622400 currently under department review; approves construction of a STP with a rated annual average design flow of 0.0007 MGD. The treatment process consists of:

- 1000 gallon 1-piece 2 compartment septic tank
- Singulair Bio-Kinetic Model 960-1000 Treatment Tank
- Hydro-kinetic Bio-film Reactor
- AT 1500 UV Disinfection System

Act 537 was approved for this project on December 6, 2021

**Development of Effluent Limitations**

<b>Outfall No.</b> <u>001</u>	<b>Design Flow (MGD)</b> <u>0.0007</u>
<b>Latitude</b> <u>40° 2' 16.00"</u>	<b>Longitude</b> <u>-78° 51' 58.00"</u>
<b>Wastewater Description:</b> <u>Sewage Effluent</u>	

**Technology-Based Limitations**

The following effluent limitations and monitoring requirements, at a minimum, will be established in all new and renewed SFTF 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 QBELs 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).

**TMDL**

This facility discharges to the Kiskiminetas-Conemaugh River Watershed. This Watershed has a TMDL that was finalized on January 29, 2010 and is impaired by metals and pH. Abandoned mine drainage is a source of such impairment. The sewage discharge from the Lacey SRSTP is not expected to contribute to the stream impairment. No WLAs have been developed for this sewage discharge, and they are not expected to contribute to the stream impairment for these pollutants. No monitoring requirements for Total Iron, Total Manganese and Total Aluminum will be imposed on this facility.

**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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> 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
BOD5	XXX	XXX	XXX	10	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001

Other Comments:

Ultraviolet (UV) disinfection is used, and therefore, Total Residual Chlorine (TRC) limits are not applicable. Current policy does not require SRSTPs to monitor for UV Intensity.

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

The receiving stream is not impaired for nutrients.

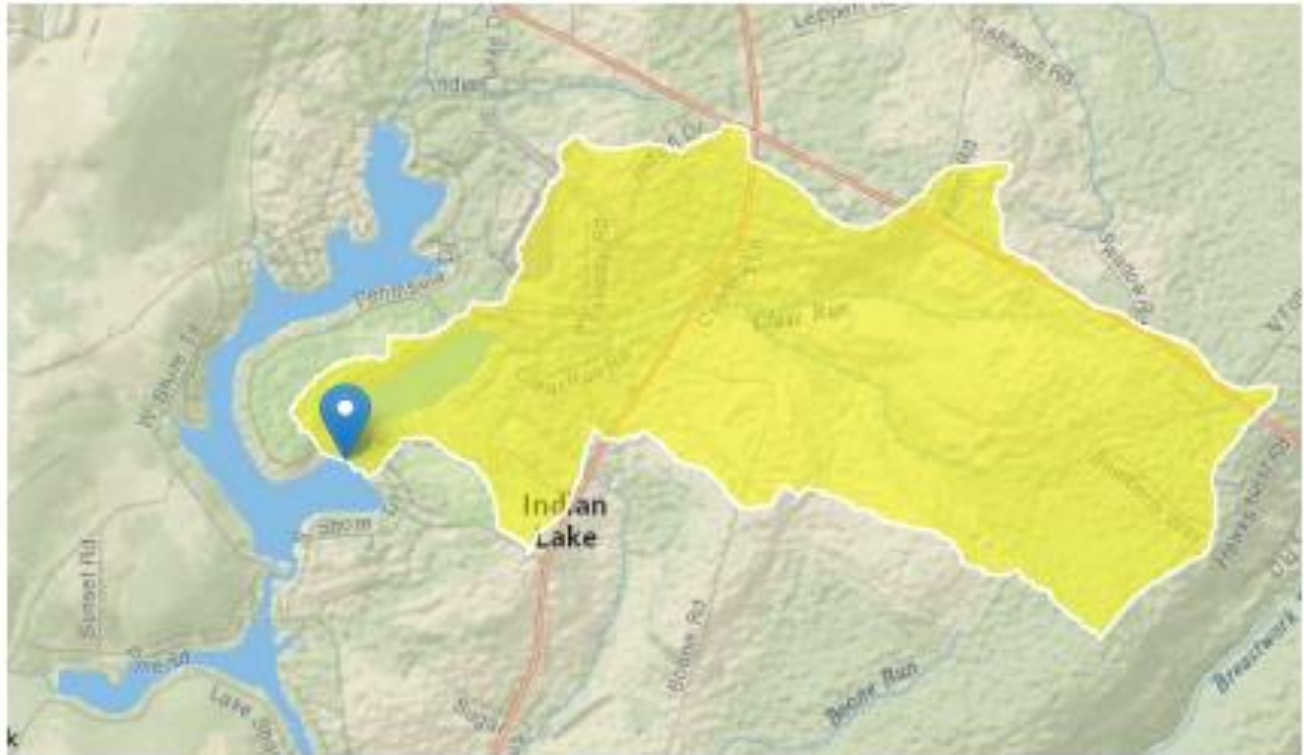
## StreamStats Report

Region ID: PA

Workspace ID: PA20220601153517926000

Clicked Point (Latitude, Longitude): 40.03565, -78.86579

Time: 2022-06-01 11:35:38 -0400



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### > Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	5.81	square miles
ELEV	Mean Basin Elevation	2583	feet
PRECIP	Mean Annual Precipitation	43	inches

### > Low-Flow Statistics

Low-Flow Statistics Parameters [100.0 Percent (5.8 square miles) Low Flow Region 3]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	5.81	square miles	2.33	1720
ELEV	Mean Basin Elevation	2583	feet	898	2700
PRECIP	Mean Annual Precipitation	43	inches	38.7	47.9

Low-Flow Statistics Flow Report [100.0 Percent (5.8 square miles) Low Flow Region 3]

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	0.89	ft <sup>3</sup> /s	43	43
30 Day 2 Year Low Flow	1.23	ft <sup>3</sup> /s	38	38
7 Day 10 Year Low Flow	0.392	ft <sup>3</sup> /s	54	54
30 Day 10 Year Low Flow	0.508	ft <sup>3</sup> /s	49	49
90 Day 10 Year Low Flow	0.748	ft <sup>3</sup> /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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