

Application Type Renewal  
Wastewater Type Sewage  
Facility Type SFTF

## NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0255157  
APS ID 1127969  
Authorization ID 1510579

### Applicant, Facility and Project Information

Applicant Name <u>Allegheny County Parks Department</u>	Facility Name <u>Deer Lakes Park</u>
Applicant Address <u>542 Forbes Avenue Suite 107</u>	Facility Address <u>1090 Bailey Run Road</u>
<u>Pittsburgh, PA 15219-2906</u>	<u>Pittsburgh, PA 15076</u>
Applicant Contact <u>Melissa Sweedish</u>	Facility Contact <u>Josh Sphar</u>
Applicant Phone <u>(412) 530-4636</u>	Facility Phone <u>412-582-9642</u>
Client ID <u>23985</u>	Site ID <u>562719</u>
SIC Code <u>8811</u>	Municipality <u>West Deer Township</u>
SIC Description <u>Services - Private Households</u>	County <u>Allegheny</u>
Date Application Received <u>December 24, 2024</u>	WQM Required <u>Yes</u>
Date Application Accepted <u>January 16, 2025</u>	WQM App. No. <u>0217403</u>
Project Description <u>NPDES Permit Renewal</u>	

### Summary of Review

The applicant has applied for a renewal of NPDES Permit No. PA0255157, which was previously issued by the Department on April 1, 2017 and expired on March 31, 2022.

The discharge is to UNT to Little Deer Creek, which is classified as a TSF located in State Watershed 18-A.

#### 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	February 25, 2025
X		Christopher Kriley, P.E. / Environmental Program Manager	March 3, 2025

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.002
Latitude	40° 37' 6.51"	Longitude	-79° 49' 48.53"
Quad Name		Quad Code	
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary to Little Deer Creek (TSF)	Stream Code	42298
NHD Com ID	123972726	RMI	0.2000
Drainage Area	0.62	Yield (cfs/mi²)	0.007
Q <sub>7-10</sub> Flow (cfs)	0.00439	Q <sub>7-10</sub> Basis	USGS Stream Stat
Elevation (ft)	1125	Slope (ft/ft)	
Watershed No.	18-A	Chapter 93 Class.	TSF
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	Final	Name	Little Deer Creek Watershed
Background/Ambient Data		Data Source	
pH (SU)			
Temperature (°F)			
Hardness (mg/L)			
Other:			
Nearest Downstream Public Water Supply Intake	WILKINSBURG-PENN JT WATER AUTH		
PWS Waters	Allegheny River (WWF)	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	12.7

Changes Since Last Permit Issuance: None

Other Comments: N/A

**Treatment Facility Summary**

**Treatment Facility Name:** Deer Lakes Park SFTF

WQM Permit No.	Issuance Date
0217403	02/14/2008

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Artificial Wetlands	Ultraviolet	0.002
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.002	3	Not Overloaded	Holding Tank	Other WWTP

Changes Since Last Permit Issuance: None

Other Comments: The Treatment facility currently consists of:

- A 2,000 GPD NEWT (Naturally Engineered Wetlands Treatment) sewage treatment plant
- UV Disinfection

Compliance History

Compliance History

DMR Data for Outfall 001 (from January 1, 2024 to December 31, 2024)

Parameter	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24
Flow (MGD) Average Monthly					0.00030 8	0.00003 1	0.00004	0.00009 1				
pH (S.U.) Minimum					6.8	6.9	6.8	6.9				
pH (S.U.) Maximum					6.8	6.9	6.8	6.9				
BOD5 (mg/L) Average Monthly					< 2.0	6.7	4.6	< 2.0				
TSS (mg/L) Average Monthly					< 5.0	< 5.0	< 5.0	< 5.0				
Fecal Coliform (No./100 ml) Geometric Mean					6	7	< 1	8				
Fecal Coliform (No./100 ml) Instantaneous Maximum					6	7	< 1	8				

**Development of Effluent Limitations**

<b>Outfall No.</b>	001	<b>Design Flow (MGD)</b>	0.002
<b>Latitude</b>	40° 37' 7.30"	<b>Longitude</b>	-79° 49' 48.80"
<b>Wastewater Description:</b>	Sewage Effluent		

**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 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:**

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

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

The receiving stream is not impaired for nutrients.

**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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/month	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/month	Grab

Compliance Sampling Location: Outfall 001

Other Comments: None

StreamStats Report

Region ID: PA  
Workspace ID: PA20250226144000262000  
Clicked Point (Latitude, Longitude): 40.61853, -79.83018  
Time: 2025-02-26 09:40:31 -0500



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.62	square miles
ELEV	Mean Basin Elevation	1125	feet

LowFlow Statistics

LowFlow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.62	square miles	2.26	1400
ELEV	Mean Basin Elevation	1125	feet	1050	2580

LowFlow Statistics Disclaimers [Low Flow Region 4]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

LowFlow Statistics Flow Report [Low Flow Region 4]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0154	ft^3/s
30 Day 2 Year Low Flow	0.0303	ft^3/s
7 Day 10 Year Low Flow	0.00439	ft^3/s
30 Day 10 Year Low Flow	0.0097	ft^3/s



Statistic	Value	Unit
90 Day 10 Year Low Flow	0.02	ft <sup>3</sup> /s
<i>Low-Flow Statistics Citations</i>		
<b>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. (<a href="http://pubs.usgs.gov/sir/2006/5130/">http://pubs.usgs.gov/sir/2006/5130/</a>)</b>		

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Application Version: 4.27.0

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1