

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0255220
 APS ID 1057392
 Authorization ID 1386121

Applicant and Facility Information

Applicant Name	<u>Albert Daisley III and Brittany Daisley</u>	Facility Name	<u>Daisley SRSTP</u>
Applicant Address	<u>3945 Sardis Road</u> <u>Pittsburgh, PA 15239-1234</u>	Facility Address	<u>3945 Sardis Road</u> <u>Pittsburgh, PA 15239-1234</u>
Applicant Contact	<u>albert.daisley@gmail.com</u>	Facility Contact	<u>Same as applicant</u>
Applicant Phone	<u>724-554-0704</u>	Facility Phone	<u>Same as applicant</u>
Client ID	<u>332243</u>	Site ID	<u>819683</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>November 23, 2021</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>March 10, 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. PA0255220, which was previously issued by the Department on April 07, 2017 and will expire on April 30, 2022.



The existing plant consists of:

- Norweco model 960 (pretreatment, aeration, final clarification)
- HK Bio-film reactor
- AT 1500 UV light

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.

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		 Grace Polakoski, E.I.T. / Environmental Engineering Specialist	March 23, 2022
X		 Mahbuba Iasmin, Ph.D., P.E. / Environmental Engineer Manager	March 25, 2022

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.0004
Latitude	40° 30' 27"	Longitude	-79° 42' 33"
Quad Name	New Kensington East	Quad Code	40079E6
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary of Little Plum Creek (WWF)	Stream Code	42274
NHD Com ID	123972495	RMI	0.77
Drainage Area	0.042	Yield (cfs/mi ²)	0.00402
Q ₇₋₁₀ Flow (cfs)	0.000169	Q ₇₋₁₀ Basis	USGS StreamStats
Elevation (ft)	1211	Slope (ft/ft)	
Watershed No.	18-A	Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	METALS, PH		
Source(s) of Impairment	ACID MINE DRAINAGE, PETROLEUM/NATURAL GAS ACTIVITIES		
TMDL Status	Final	Name	Plum 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 Authority		
PWS Waters	Allegheny River	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	13.87

Changes Since Last Permit Issuance: N/A

Plum Creek Watershed TMDL

A TMDL for the Plum Creek Watershed was approved on April 9, 2003 for the control of abandoned mine drainage pollutants (iron, manganese, and aluminum, and pH. The TMDL does not apply to this particular segment, therefore the Daisley SRSTP was not assigned wasteload allocations for abandoned mine drainage pollutants or pH.

Treatment Facility Summary				
Treatment Facility Name: Daisley SRSTP				
WQM Permit No.		Issuance Date		
0216409		04/07/2017		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Ultraviolet	0.0004
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0004	0.8	Not Overloaded		Combination of methods

Changes Since Last Permit Issuance: N/A

Other Comments: N/A

Compliance History

Facility: Daisley SRSTP

NPDES Permit No.: PA0255220

Compliance Review Period: 3/2017 – 3/2022

Inspection Summary:

INSP ID	INSPECTED DATE	INSP TYPE	AGENCY	INSPECTION RESULT DESC
3256660	09/24/2021	Compliance Evaluation	County Health Dept	No Violations Noted

Violation Summary: No violations

Open Violations by Client ID: No open violations for Client ID 332243

Enforcement Summary: No enforcements

DMR Violation Summary: No DMR violations

Compliance Status: Permittee in compliance

Completed by: John Murphy

Completed date: 3/14/2022

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>0.0004</u>
Latitude <u>40° 30' 27.00"</u>	Longitude <u>-79° 42' 33.00"</u>
Wastewater Description: <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 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 (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	9.0 IMAX	XXX	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	XXX	1000	1/year	Grab

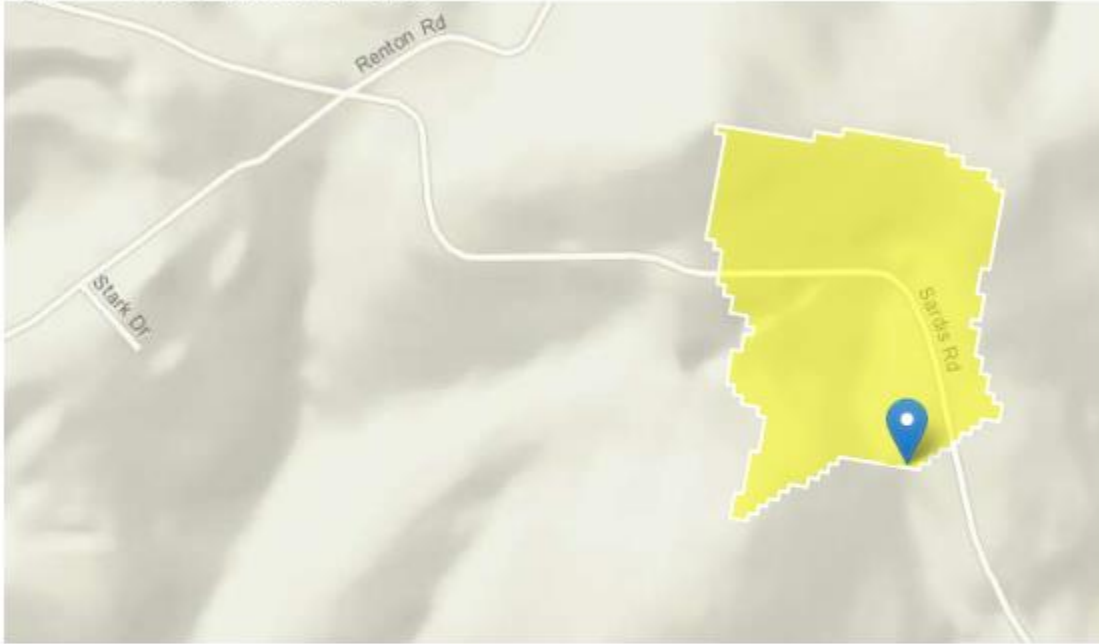
Compliance Sampling Location: Outfall 001

Other Comments:

APPENDIX A:
USGS StreamStats Report

StreamStats Report

Region ID: PA
 Workspace ID: PA20220314135046876000
 Clicked Point (Latitude, Longitude): 40.50662, -79.70828
 Time: 2022-03-14 09:51:07 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.042	square miles
ELEV	Mean Basin Elevation	1257	feet

Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.042	square miles	2.26	1400

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
ELEV	Mean Basin Elevation	1257	feet	1050	2580

Low-Flow Statistics Disclaimers [Low Flow Region 4]

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

Low-Flow Statistics Flow Report [Low Flow Region 4]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.000788	ft ³ /s
30 Day 2 Year Low Flow	0.00177	ft ³ /s
7 Day 10 Year Low Flow	0.000169	ft ³ /s
30 Day 10 Year Low Flow	0.000462	ft ³ /s
90 Day 10 Year Low Flow	0.00111	ft ³ /s

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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