

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0205338
 APS ID 1064681
 Authorization ID 1398439

Applicant and Facility Information

Applicant Name	<u>Alyssa Boyd</u>	Facility Name	<u>Boyd Properties SRSTP</u>
Applicant Address	<u>204 Brallier Drive</u> <u>Ligonier, PA 15658-9268</u>	Facility Address	<u>204 Brallier Drive</u> <u>Ligonier, PA 15658-9268</u>
Applicant Contact	<u>Alyssa Boyd</u>	Facility Contact	<u>Same as Applicant</u>
Applicant Phone	<u>(724) 433-4900</u>	Facility Phone	<u>Same as Applicant</u>
Client ID	<u>358832</u>	Site ID	<u>109</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Ligonier Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Westmoreland</u>
Date Application Received	<u>June 1, 2022</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u></u>	WQM App. No.	<u>6591403</u>

Purpose of Application Application for the renewal of an NPDES permit for the discharge of treated Sewage.

Summary of Review

The applicant has applied for a renewal of an existing NPDES Permit, PA0205338, which was previously issued by the Department on November 2, 2017 & later transferred on December 14, 2020. That permit expires on November 30, 2022.

WQM Permit No. 6591403 authorized construction of a SRSTP to treat an annual average design flow of 0.0004 MGD from an existing 3 bedroom home. The facility consists of an aerobic treatment unit, an upflow filter, and chlorination.

The receiving stream, UNT of Loyalhanna Creek, is currently classified as a CWF, located in State Watershed No. 18-C.



The applicant has complied with Act 14 Notifications and no comments were received.

The applicant does not use eDMR and current policy does not require eDMR to be used for SRSTPs.

Sludge use and disposal description and location(s): The Septic tank was pumped, and sludge was hauled off-site by AA Septic Tank Service on April 1, 2022.

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-

Approve	Deny	Signatures	Date
X		 William C. Mitchell, E.I.T. / Project Manager	September 9, 2022
X		 Mahbuba Iasmin, Ph.D., P.E. / Environmental Engineer Manager	September 12, 2022

Summary of Review

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>0.0004</u>
Latitude	<u>40° 14' 05.00"</u>	Longitude	<u>-79° 12' 46.00"</u>
Quad Name	<u>Ligonier</u>	Quad Code	<u></u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Loyalhanna Creek (CWF)</u>	Stream Code	<u>43761</u>
NHD Com ID	<u>125294147</u>	RMI	<u>0.71</u>
Drainage Area	<u>0.15</u>	Yield (cfs/mi ²)	<u>0.0331</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.00497</u>	Q ₇₋₁₀ Basis	<u>USGS StreamStats</u>
Elevation (ft)	<u>1361</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>18-C</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>Attaining Use(s)</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>Latrobe Municipal Authority</u>		
PWS Waters	<u>Loyalhanna Creek</u>	Flow at Intake (cfs)	<u></u>
PWS RMI		Distance from Outfall (mi)	<u></u>

Changes Since Last Permit Issuance: None

Other Comments: This discharge is tributary to the Kiskiminetas-Conemaugh River Watersheds that has a Final TMDL and is impaired by metals and pH. This sewage discharge is not expected to contribute to the stream impairment for which abandoned mine drainage is source of such 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 limitations or monitoring requirements for iron, manganese, or aluminum will be placed on this SRSTP, as flows from SFTF are considered insignificant.

Treatment Facility Summary				
Treatment Facility Name: Boyd Properties SRSTP				
WQM Permit No.		Issuance Date		
6591403		08/16/1991		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Aerobic Treatment Unit, and Upflow Filter	Chlorination	0.0004
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0004		Not Overloaded	Septic Hauler	Other WWTP

Changes Since Last Permit Issuance: None

Compliance History

Operations Compliance Check Summary Report

Facility: Boyd SRSTP

NPDES Permit No.: PA0205338

Compliance Review Period: 9/2017 – 9/2022

Inspection Summary:

INSP ID	INSPECTED DATE	INSP TYPE	AGENCY	INSPECTION RESULT DESC
3082850	09/16/2020	Compliance Evaluation	PA Dept of Environmental Protection	No Violations Noted

Violation Summary:

No violations

Open Violations by Client ID:

No open violations for client id 135834

Enforcement Summary:

No open enforcements

DMR Violation Summary:

No DMR violations

Compliance Status:

Permittee in compliance.

Completed by: John Murphy

Completed date: 9/13/2022

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>0.0004</u>
Latitude <u>40° 14' 5.00"</u>	Longitude <u>-79° 12' 46.00"</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 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).

Comments: This SRSTP was permitted prior to publication of the Department’s Small Flow Treatment Facilities Manual (362-0300-002) and has no documented compliance concerns. Application and DMR data indicate that this facility is not capable of meeting the above technology-based limitations.

Current SOPs state that the above technology-based effluent limitations for BOD₅ and TSS do not need to be imposed if the existing SRSTP was permitted prior to publication of the Small Flow Treatment Facility Manual, as these types of facilities are not capable of meeting tertiary treatment limits. Secondary Treatment limitations for CBOD₅ and TSS will be reimposed based upon the previously approved Fact Sheet.

Additional Considerations:

Sewage discharges with design flows less than or equal to 2,000 gpd are not required to monitoring for Total Nitrogen and Total Phosphorus in new and reissued permits. The receiving stream is not impaired for nutrients.

The applicant does not use eDMR and current policy does not require eDMR to be used for SRSTPs.

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.

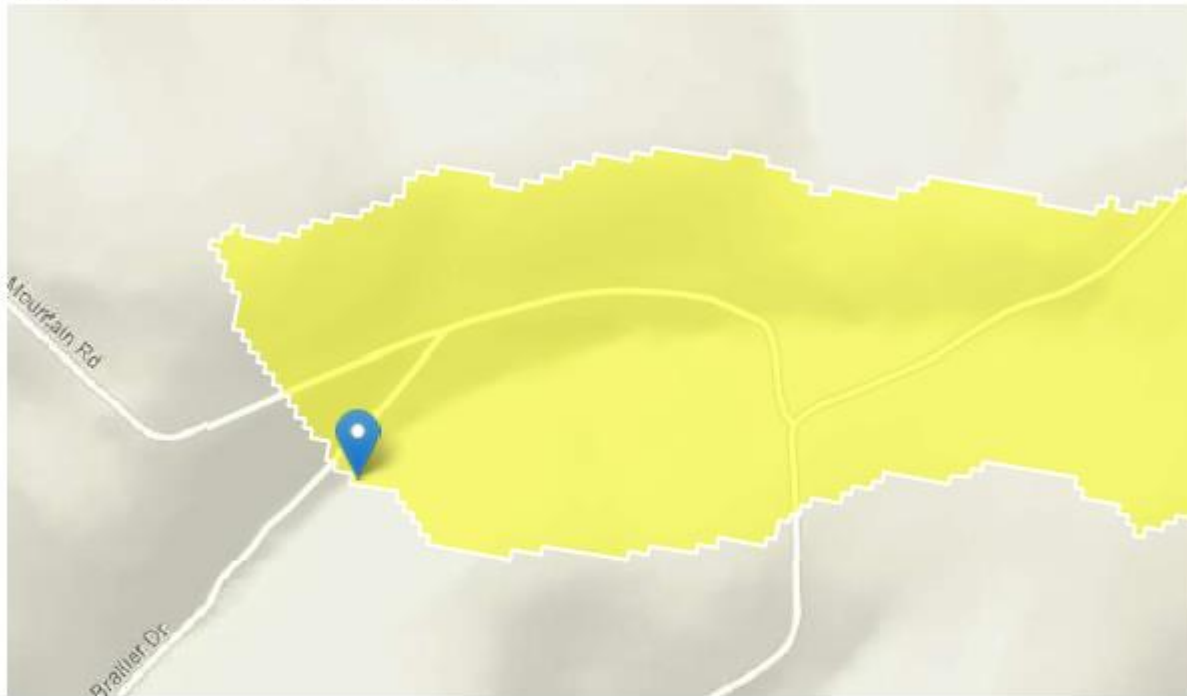
Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	0.0004 Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	9.0 Daily Max	XXX	1/year	Grab
TRC	XXX	XXX	XXX	Report Avg Mo	XXX	Report	1/month	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50.0	1/year	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001

Other Comments: N/A

StreamStats Report - PA0205338

Region ID: PA
Workspace ID: PA20220909182943852000
Clicked Point (Latitude, Longitude): 40.23439, -79.21308
Time: 2022-09-09 14:30:03 -0400



 Collapse All

> Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.15	square miles
ELEV	Mean Basin Elevation	1514	feet
PRECIP	Mean Annual Precipitation	43	inches

> Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 3]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.15	square miles	2.33	1720
ELEV	Mean Basin Elevation	1514	feet	898	2700
PRECIP	Mean Annual Precipitation	43	inches	38.7	47.9

Low-Flow Statistics Disclaimers [Low Flow Region 3]

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 3]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0142	ft ³ /s
30 Day 2 Year Low Flow	0.0218	ft ³ /s
7 Day 10 Year Low Flow	0.00497	ft ³ /s
30 Day 10 Year Low Flow	0.0076	ft ³ /s
90 Day 10 Year Low Flow	0.0117	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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Application Version: 4.10.1

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1