pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0252778**
Wastewater Type	**Sewage**	APS ID	**1077357**
Facility Type	**SRSTP**	Authorization ID	**1420533**

NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP

Applicant, Facility and Project Information

Applicant Name	**Jenneice L & Thomas W Haddon**	Facility Name	**Haddon SRSTP**
Applicant Address	5821 Somerset Pike	Facility Address	5821 Somerset Pike
	Boswell, PA 15531-1805		Boswell, PA 15531-1805
Applicant Contact	Jenneice Haddon	Facility Contact	Same as applicant
Applicant Phone	(814) 525-0280	Facility Phone	Same as applicant
Client ID	365372	Site ID	632833
SIC Code	8811	Municipality	Jenner Township
SIC Description	Services - Private Households	County	Somerset
Date Application Received	December 1, 2022	WQM Required	
Date Application Accepted	December 15, 2022	WQM App. No.	

Project Description .Renewal of NPDES Permit for discharge of treated sewage.

Summary of Review

This application is for the renewal of Haddon SRSTP, which was previously issued to Darryl Stonecypher on April 3, 2017, and then transferred to Jenneice and Thomas Haddon in November 2021. The receiving stream, Tributary 45158 to South Fork Bens Creek, is classified as a high-quality cold-water fishery (HQ-CWF).

Tributary 45158 to South Branch Bens Creek is part of the Kiskiminetas-Conemaugh River Watersheds TMDL. No WLAs for this facility are listed in the TMDL. Because this facility has an average daily design flow of 0.0004 MGD, it can be excluded as a significant source that will not contribute to the impairment of the watershed. Based upon this information, no monitoring for Fe, Mn, and Al will be imposed on this facility and the EPA waiver is in effect.

WQM Permit No. 5604406 & 5604406-A1 authorized construction of the STP to treat an average design flow of 0.0004 MGD. The existing treatment process consists of septic tank, dosing tank, sand filtration, chlorination and effluent discharge pump.

The Social Economic Justification for discharge to high quality waters was submitted and approved by the Department, along with the Act 537 Plan Revision, on May 10, 2004. The SRSTP abated an existing malfunctioning on-lot facility.

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*

Approve	Deny	Signatures	Date
X		Jamie Ley Jamie Ley / Environmental Engineer Trainee	January 25, 2023
x		Mahbuba Iasmin Mahbuba Iasmin, Ph.D., P.E. / Environmental Engineer Manager	February 27, 2023

Summary of Review
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 and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.0004
Latitude	40º 13' 16"	Longitude	-79º 1' 30"
Quad Name	Boswell	Quad Code	1713
Wastewater Description:	Sewage Effluent		
Receiving Waters	Tributary 45158 to South Fork Bens Creek (HQ-CWF)	Stream Code	45158
NHD Com ID	123715738	RMI	0.28
Drainage Area	0.25	Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)	0.00996	Q_{7-10} Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No.	18-E	Chapter 93 Class.	HQ-CWF
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	Kiskiminetas-Conemaugh River Watersheds TMDL

Background/Ambient Data		Data Source
pH (SU)		
Temperature (°F)		
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake	Saltsburg Municipal Waterworks		
PWS Waters	Conemaugh River	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	~ 65

Changes Since Last Permit Issuance: **None.**

Other Comments: **None.**

Stream Stats Report

StreamStats Report

Region ID: PA
Workspace ID: PA20221230154405292000
Clicked Point (Latitude, Longitude): 40.22109, -79.02509
Time: 2022-12-30 10:44:37 -0500

Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.25	square miles
ELEV	Mean Basin Elevation	1810	feet

Low-Flow Statistics Flow Report [Low Flow Region 3]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0274	ft^3/s
30 Day 2 Year Low Flow	0.0412	ft^3/s
7 Day 10 Year Low Flow	0.00996	ft^3/s
30 Day 10 Year Low Flow	0.0146	ft^3/s
90 Day 10 Year Low Flow	0.0224	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/)

Treatment Facility Summary				
Treatment Facility Name: Haddon SRSTP				
WQM Permit No.	**Issuance Date**			
5604406	11/30/2004			
5604406 T-3	11/4/2021			
Waste Type	**Degree of Treatment**	**Process Type**	**Disinfection**	**Avg Annual Flow (MGD)**
Sewage	Tertiary	Septic Tank Sand Filter	Erosion Chlorinator	0.0004
Hydraulic Capacity (MGD)	**Organic Capacity (lbs/day)**	**Load Status**	**Biosolids Treatment**	**Biosolids Use/Disposal**
0.0004	0.433	Not Overloaded		

Changes Since Last Permit Issuance: **None.**

Other Comments: **None**

Compliance History

Facility: Haddon SRSTP

NPDES Permit No.: PA0252778

Compliance Review Period: 12/2017 – 12/2022

Inspection Summary:

INSP ID	INSPECTED DATE	INSP TYPE	AGENCY	INSPECTION RESULT DESC
3459255	11/07/2022	Compliance Evaluation	PA Dept of Environmental Protection	Violation(s) Noted
2748762	06/18/2018	Compliance Evaluation	PA Dept of Environmental Protection	No Violations Noted

Violation Summary:

VIOL ID	VIOLATION DATE	VIOLATION TYPE	VIOLATION TYPE DESC	RESOLVED DATE
975988	11/07/2022	92A.75(A)	92a - Failure to submit NPDES renewal application at least 180 days prior to expiration or later approved date	11/17/2022
975989	11/07/2022	92A.41(A)12B	NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports	11/17/2022

Open Violations by Client ID:

No open violations for client id 365372

Enforcement Summary:

ENF ID	ENF TYPE	ENF CREATION DATE	VIOLATIONS	ENF FINAL STATUS	ENF CLOSED DATE
409464	NOV	11/17/2022	92A.41(A)12B; 92A.75(A)	Administrative Close Out	12/29/2022

DMR Violation Summary:

No DMR exceedances

Compliance Status:

Permittee in compliance. Will follow up on future DMR and AMR submittals

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .0004
Latitude 40º 13' 16.00" **Longitude** -79º 1' 30.00"
Wastewater Description: Sewage Effluent

Technology-Based Limitations (TBELS)

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/month
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).

Antidegradation Best Available Combination of Technologies (ABACT)

Outfall 001 discharges to Tributary 45158 to South Fork Bens Creek, which is classified as a HQ-CWF.

The following Antidegradation Best Available Combination of Technologies (ABACT) effluent limits, at a minimum, will be established based on the requirements of DEP's "Water Quality Antidegradation Implementation Guidance" (Doc. No. 391-0300-002; November 29, 2003).

Parameter	Treatment Process Performance Expectations (mg/L)		
	<2,000 gpd	2,000-50,000 gpd	>50,000 gpd
$CBOD_5$ (May 1 – Oct. 31)	10	10	10
$CBOD_5$ (Nov. 1 – Apr. 30)	20	20	10
Suspended Solids	20	10	10
NH_3-N (May 1 – Oct. 31)	5.0	3.0	1.5
NH_3-N (Nov. 1 – Apr. 30)	15.0	9.0	4.5
Effective disinfection	Disinfection should be accomplished using a method that leaves no detectable residual. Disinfection using ultra-violet light or other non-chlorine based systems is encourage and must be considered.		
Other parameters, as needed	*Determined by the size and characteristics of the proposed discharge, may include – NO_2/NO_3-N, Total Phosphorus, Copper, Lead, Zinc*		

The limitations and monitoring requirements, specified on pages 10-12 of this Fact Sheet, reflect the most stringent limitation amongst the above Technology-Based Effluent Limitations.

Additional Considerations

Outfall 001 discharges to Tributary 45158 to South Fork Bens Creek, which is classified as a HQ-CWF.

Per PADEP's Water Quality Antidegradation Implementation Guidance (391-0300-002; November 29, 2003), all non-point source contributions and non-grandfathered point sources that occur after a waterbody is designated HQ or EV are subject to applicable provisions of the Antidegradation Program. At the time of original permit issuance, the receiving stream was designated as a HQ-CWF and a Social Economic Justification for discharge to High Quality Waters for Haddon SRSTP was submitted and approved by the Department along with the planning module on May 10, 2004. The NPDES and WQM permits were originally issued for this facility on November 30, 2004. The WQM permit was amended on July 20, 2005. At the time of original issuance, the NPDES permit stated only monitor and report requirements for TRC, instead of a non-detectable residual requirement, i.e., 0.02 mg/L ("non-detect") limit. Justification for this decision is unknown. Even though Haddon SRSTP is currently not expanding or modifying, under the original authority of 25 Pa. Code, Section 93.4c, a correction on the TRC limit has been made during the current renewal and 0.02 mg/L limit would apply.

Based on 2018-2022 sampling data, the Haddon SRSTP is expected to be unable to meet the 0.02 mg/L limit in its current condition A one-year compliance schedule to specifying the requirements has been included in Part C.II of the permit as shown below:

Action	Due Date
Submit a TRC Minimization Plan (including a Site-Specific Data Collection Plan if pursing studies pursuant to paragraph D below)	Six (6) Months following Permit Effective Date
Begin Implementation of Actions in TRC Minimization Plan (and Site-Specific Data Collection Plan (if applicable))	Six Months following Permit Effective Date
Submit Progress Report	Nine (9) Months Following Permit Effective Date
Submission of Water Quality Management (WQM) Part II Permit Application, if applicable	Nine (9) Months Following Permit Effective Date
Complete Implementation of Actions in TRC Minimization Plan/Meet Final Effluent Limitations	Twelve (12) Months Following Permit Effective Date

The compliance schedule dates in the draft permit are tentative and may change pending final permit issuance. The Part C language for TRC limits below method detection limits ("Part C 120") has also been added to the permit. At this time, installation of dechlorination unit or disinfection using ultra-violet light or other non-chlorine based systems is encouraged and must be considered.

A compliance period of one (1) year from the final permit effective date will therefore be established for TRC.

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 End of 12th Month following Permit Effective 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	Average Monthly	Maximum	Instant. Maximum		
TRC	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab

Compliance Sampling Location: **Outfall 001**

Other Comments:

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: Beginning of 13th Month following 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	Average Monthly	Maximum	Instant. Maximum		
TRC	XXX	XXX	XXX	0.02	XXX	0.02	1/month	Grab

Compliance Sampling Location: **Outfall 001**

Other Comments:

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	Semi-Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	0.0004 SEMI AVG	XXX	XXX	XXX	XXX	XXX	1/6 months	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/6 months	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/6 months	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/6 months	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000	XXX	10000	1/6 months	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200	XXX	1000	1/6 months	Grab
Ammonia Oct 1 - Apr 30	XXX	XXX	XXX	15.0	XXX	30.0	1/6 months	Grab
Ammonia May 1 - Sep 30	XXX	XXX	XXX	5.0	XXX	10.0	1/6 months	Grab

Compliance Sampling Location: **Outfall 001**

Other Comments: