

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0254126
APS ID 835985
Authorization ID 1281906

Applicant, Facility and Project Information

Applicant Name	<u>Charles & Sarah Hensel</u>	Facility Name	<u>Hensel Community SFSTF</u>
Applicant Address	<u>115 Hamel Lane</u> <u>Johnstown, PA 15905</u>	Facility Address	<u>115 Hamel Lane</u> <u>Johnstown, PA 15905</u>
Applicant Contact	<u>Chas Hensel</u>	Facility Contact	<u>Same</u>
Applicant Phone	<u>(814) 255-2876</u>	Facility Phone	<u></u>
Client ID	<u>273005</u>	Site ID	<u>718341</u>
SIC Code	<u>8800</u>	Municipality	<u>Upper Yoder Township</u>
SIC Description	<u>Private Households</u>	County	<u>Cambria</u>
Date Application Received	<u>July 25, 2019</u>	WQM Required	<u></u>
Date Application Accepted	<u>July 29, 2019</u>	WQM App. No.	<u></u>
Project Description	<u>Renew NPDES permit.</u>		

Summary of Review

NPDES Permit PA0254126 was previously issued by DEP on October 3, 2014. That permit's expiration date is October 31, 2019.

An individual permit is required for this facility because the discharge is to high quality designated waters.

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		David R. Ponchione / Project Manager /s/	August 21, 2019
x		Chris Kriley for Donald J. Leone, P.E. / Environmental Engineer Manager /s/	August 21, 2019

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0009</u>
Latitude	<u>40° 17' 29"</u>	Longitude	<u>-78° 59' 11"</u>
Quad Name	<u>Johnstown</u>	Quad Code	<u>1614</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Dalton Run (HQ-CWF)</u>	Stream Code	<u>45125-U</u>
NHD Com ID	<u>123720283</u>	RMI	<u>0.076</u>
Drainage Area	<u>0.0397</u>	Yield (cfs/mi ²)	<u>0.0235</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.0009</u>	Q ₇₋₁₀ Basis	<u>Dark Shade Creek at Central City, PA (Bulletin 12, page 370, station no. 03039700)</u>
Slope (ft/ft)	<u>0.045</u>		
Watershed No.	<u>18E</u>	Chapter 93 Class.	<u>High Quality Waters - Cold Water Fishes</u>
Exceptions to Use	<u>None</u>	Exceptions to Criteria	<u>None</u>
Assessment Status	<u>Attaining Use(s)</u>		
TMDL Status	<u>Final, 01/29/2010</u>	Name	<u>Kiskiminetas-Conemaugh River Watersheds TMDL</u>
Nearest Downstream Public Water Supply Intake	<u>Blairsville Municipal Authority located on the Conemaugh River</u>		

Changes Since Last Permit Issuance: None

Comments: Reference is made to the fact sheet dated 6/2/2009 that is contained in the pollution report which explains why it was apparent the receiving stream should be considered full flowing and has a use to protect.

Operations Compliance Check Summary Report

Facility: Hensel Community STP

NPDES Permit No.: PA0254126

Compliance Review Period: 8/2014 – 8/2019

Inspection Summary:

INSP ID	INSPECTED DATE	INSP TYPE	AGENCY	INSPECTION RESULT DESC
2509719	08/09/2016	Compliance Evaluation	PA Dept of Environmental Protection	No Violations Noted

Violation Summary:

No violations noted.

Open Violations by Client ID:

No open violations for Client ID 273005

Enforcement Summary:

No enforcements.

DMR Violation Summary:

No DMR exceedances.

Compliance Status:

Permittee is in compliance.

Completed by: John Murphy

Completed date: 8/20/2019

Treatment Facility Summary

Treatment Facility Name: Hensel Comm STP

WQM Permit No.	Issuance Date
1109402	Aug 21, 2009

Changes Since Last Permit Issuance: None

Waste Type – Domestic Sewage

Degree of Treatment - Tertiary

Process Type and Disinfection- 1250-gallon septic tank, a 1,000-gallon septic tank with a Ploylok-625 effluent filter, a distribution box and 2-ECOFLO STB-650 biofilters. WQM Permit No. 1109402 approved a 500-gallon chlorine contact tank with tablet chlorinator. The permit application indicates UV disinfection is now provided. Reference is made to the draft cover letter which requests that the permittee provide justification a UV unit exists.

Hydraulic Capacity (MGD) – 900 GPD

Organic capacity is 0.0756 lbs./day and was taken from WQM Part II application.

Biosolids pumped by approved hauler.

Development of Effluent Limitations

Outfall No.	001	Design Flow (MGD)	0.0009
Latitude	40° 17' 29.00"	Longitude	-78° 59' 11.00"
Wastewater Description: Treated domestic sewage			

Small Flow Treatment Facility (SFTF)

The following effluent limitations and monitoring requirements, at a minimum, will be established in all new permits and in renewed permits for SFTF's unless a written justification is provided based on site-specific considerations such as TMDLs or anti-degradation, per the Standard Operating Procedure (SOP) for Clean Water Program - New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications, revised on May 17, 2019.

Parameter	Avg	IMAX	Sample Type	Frequency: SFTFs
Flow (GPD)	Report	XXX	Estimate / Measured	1/month
BOD5 (mg/L)	10	20	Grab	1/month
TSS (mg/L)	10	20	Grab	1/month
Fecal Coliform (No./100 ml)	200 Geometric Mean / Average		Grab	1/month

Comments: The renewal permit's proposed sampling frequency of 1/quarter is consistent with prior NPDES PA0254126 permits. The basis for the reduced sampling frequencies is contained in the attached pollution report. Reference is made to the Hensel's February 19, 2014 letter expressing their concern with the cost burdens to obtain permits, to install the system, to maintain the system, and to test the effluent. Attached to their letter is DEP's reasoning for reducing the sampling frequency to quarterly. Also, per current policy, if an existing facility has been well-maintained and monitoring frequencies in the existing permit are less stringent than shown above, the existing frequencies may be carried over to the renewal, but in no case may monitoring be "upon request."

Water Quality-Based Effluent Limitations (WQBEL's)

In addition to the above limitations, the following limitations were previously determined through water quality modeling (output files attached) and will be reapplied to comply with anti-backsliding regulations. Modeling was previously performed because the discharge was, and still is, to special protection waters. The below effluent limitations for this discharge were established using DEP's Water Quality Anti-Degradation Implementation Guidance. That guidance requires the most stringent effluent limitations from non-degrading, Anti-Degradation Best Available Combination of Technologies (ABACT), or WQBEL's be imposed. A Social and Economic Justification (SEJ) was previously approved, therefore non-degrading limits were not required. SEJ was granted because the STP was to replace an existing on-lot malfunction. The model WQAM63 confirmed ammonia-nitrogen WQBEL's governed over ABACT ammonia-nitrogen limits, and that a dissolved oxygen limitation is required to meet the dissolved oxygen criterion.

Parameter	Limit (mg/l)	SBC	Model
NH3-N	3.5	Average Monthly	WQAM63
Dissolved Oxygen	7.0	Average Monthly	WQAM63

Comments: Limits above were imposed in previous NPDES permit.

The previous permit contained the following limits and were ABACT based:

Parameter	Limit (mg/l)	SBC
CBOD5 (May 1 - Oct 31)	10	Average Monthly
CBOD5 (Nov 1 – Apr 30)	20	Average Monthly
TSS	20	Average Monthly

The previous permit also contained seasonal fecal coliform limitations and thus had a limit of 2000/100 ml limit for the period October 1 – April 30.

The above limits were replaced by the more current requirements contained in the SOP because they are more restrictive and expected to be achieved. Therefore, the seasonal CBOD5 limits were replaced with a year around BOD5 limit of 10 mg/l, the TSS limit of 20 mg/l was replaced with a limit of 10 mg/l, and the fecal coliform limit is now 200/100 ml year around. The previous permit also had a flow limitation of 0.0009 mgd which will be retained in lieu of the “Report” requirement. The fecal coliform limit is now to be measured in “No./100 ml” in lieu of “CFU/100 ml”.

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	Average Quarterly	Maximum	Instant. Maximum		
Flow (MGD)	0.0009 Avg Qrtly	XXX	XXX	XXX	XXX	XXX	1/quarter	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/quarter	Grab
Dissolved Oxygen	XXX	XXX	7.0 Inst Min	XXX	XXX	XXX	1/quarter	Grab
CBOD5 Nov 1 - Apr 30	XXX	XXX	XXX	20.0	XXX	40.0	1/quarter	Grab
CBOD5 May 1 - Oct 31	XXX	XXX	XXX	10.0	XXX	20.0	1/quarter	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/quarter	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	1000	1/quarter	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	10.5	XXX	21.0	1/quarter	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	3.5	XXX	7.0	1/quarter	Grab

Compliance Sampling Location: Outfall 001



PA0254126 Hensel
SFTF PR