

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0233099
APS ID 1029836
Authorization ID 1338620

Applicant, Facility and Project Information

Applicant Name	<u> Jean Harris </u>	Facility Name	<u> Harris SFTF </u>
Applicant Address	<u> 4165 State Route 54 </u> <u> Turbotville, PA 17772-8703 </u>	Facility Address	<u> 4165 State Route 54 </u> <u> Turbotville, PA 17772-8703 </u>
Applicant Contact	<u> Jean Harris </u>	Facility Contact	<u> Jean Harris </u>
Applicant Phone	<u> 570-415-5925 </u>	Facility Phone	<u> 570-415-5925 </u>
Client ID	<u> 360301 </u>	Site ID	<u> 846943 </u>
SIC Code	<u> 4952 </u>	Municipality	<u> Lewis Township </u>
SIC Description	<u> Trans. & Utilities - Sewerage Systems </u>	County	<u> Northumberland </u>
Date Application Received	<u> January 05, 2021 </u>	WQM Required	<u> Yes </u>
Date Application Accepted	<u> February 01, 2021 </u>	WQM App. No.	<u> WQG01492101 </u>
Project Description	<u> Issuance of permit authorizing discharge from new SFTF </u>		

Summary of Review

INTRODUCTION

Jean Harris proposed the issuance of a National Pollution Discharge Elimination System (NPDES) permit to authorize the discharge of treated effluent from a proposed Small Flow Treatment Facility (SFTF) to serve the existing Harris residence in Lewis Township, Northumberland County.


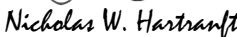
APPLICATION

Jean Harris, the application client contact, submitted the NPDES Application for Individual Permit to Discharge Sewage Effluent from Small Flow Treatment Facility (DEP #3800-PM-BCW0018b). This application was received by the Department on January 05, 2021 and considered administratively complete on February 01, 2021. The application consultant/design engineer is Randall K. Webster, PE, Project Engineer with RK Webster, LLC of Montoursville, PA. His contact information is (phone) 570-435-3489 and (email) rwebster@rkwebster.com.

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. The case file, permit application package and draft permit will be available for public review at Department's Northcentral Regional Office. The address for this office is 208 West Third Street, Suite 101, Williamsport, PA 17701. An appointment can be made to review these materials during the comment period by calling the file coordinator at 570-327-3636.

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Approve	Deny	Signatures		Date
X		Jeffrey J. Gocek, EIT	 Project Manager	04/29/2021
X		Nicholas W. Hartranft, PE	 Environmental Engineer Manager	04/29/2021

OUTFALL

The discharge of treated domestic wastewater from this SFTF occurs through Outfall 001. This outfall is located at latitude 41° 06' 21.38" and longitude -76° 45' 23.25". The design flow of this SFTF is 0.0004 MGD. The discharge will be to Beaver Run, via a drainage swale. This swale is contained within the PennDOT Right-of-Way of State Route 44/54. Effluent will flow approximately 440 feet through the swale to Beaver Run.

Q7.10 DETERMINATION

A Q7.10 flow for this discharge has not been calculated since water quality modeling is not performed for residential small flow treatment facilities.

FACILITY DESCRIPTION

See Attachment 01 for a map of the SFTF location.

The consultant has proposed an Ecoflo package plant to replace the malfunctioning on-lot sewage disposal system, since no suitable soils exist onsite for use in a replacement on-lot disposal system. The selected plant, model EC7-500-P-P-Pack, incorporates a treatment tank, a coco filter and ultraviolet disinfection into one unit. This system will serve an existing 3-bedroom ranch house. This unit has a hydraulic capacity of 500 gallons per day.

See Attachment 02 for the site schematic.

COMPLIANCE HISTORY

The WMS Query Open Violations by Client Report revealed no open violations for Ms. Harris.

DEVELOPMENT OF EFFLUENT LIMITATIONSTechnology-Based Limitations

The following technology-based limitations apply to single residence sewage treatment plants (SRSTPs), subject to water quality analysis and BPJ where applicable:

Parameter	Average	IMAX	Sample Type	Frequency
Flow (GPD)	Report	XXX	Estimate	1/Year
BOD5 (mg/L)	10	20	Grab	1/Year
TSS (mg/L)	10	20	Grab	1/Year
TRC (mg/L)	Report	XXX	Grab	1/Month
Fecal Coliform (No./100 mL)	200 (Annual Average)		Grab	1/Year

NOTE – Since Ultraviolet Disinfection is proposed for this facility, no limit for Total Residual Chlorine (TRC) will be assigned.

Water Quality-Based Limitations

In accordance with Department policy, water quality modeling using the PENTOXSD, the WQM and TRC Spreadsheet models is not performed for SRSTPs.

None are proposed.

Best Professional Judgment (BPJ) Limitations

In the absence of applicable effluent guidelines for the discharge or pollutant, permit writers must identify and/or develop needed technology-based effluent limitations (TBELs) TBELs on a case-by-case basis, in accordance with the statutory factors specified in the Clean Water Act.

None are proposed.

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RECEIVING STREAMCharacteristics

The receiving stream is Beaver Run. This stream, according to 25 PA § 93.9L, is protected for Warm Water Fishes (WWF) and Migratory Fishes (MF). These are the streams Designated Uses, which is defined in 25 PA § 93.1 as “those uses specified in §§ 93.9a – 93.9z for each waterbody or segment whether or not the use is being attained”. Designated uses are regulations promulgated by the Environmental Quality Board (EQB) throughout the rulemaking process. This stream currently has no Existing Use. Existing Use is defined in 25 PA § 93.1 as “those uses actually attained in the waterbody on or after November 28, 1975 whether or not they are included in the water quality standards”.

This tributary to County Line Branch is identified by Department stream code 18831. The stream is located in (Chapter 93) drainage list L and State Water Plan 10D (Muncy Creek).

Impairment

While Beaver Run is attaining its designated uses for recreation, it is not attaining designated uses with respect to aquatic life. It is impaired by 1. Organic Enrichment/Low Dissolved Oxygen caused by Agriculture and 2. Siltation caused by Agriculture.

A Total Maximum Daily Load (TMDL) was calculated for the West Branch Chillisquaque Creek Watershed. This TMDL was finalized in 2012 and calculated necessary sediment and phosphorus loading reductions for each land use within the watershed, based on an unimpaired reference watershed. The discharge of TSS is from treatment system should not contribute to the existing impairment.

CHESAPEAKE BAY TMDL

Nutrient monitoring requirements associated with the Chesapeake Bay TMDL do not apply since the hydraulic design flow of this SFTF is less than 2,000 gallons per day.

SPECIAL PERMIT CONDITIONS

Annual Maintenance Form
 Discharge Monitoring Report Form
 Tank Monitoring
 Pumping Requirement
 Stormwater Prohibition
 Approval Contingencies
 Proper Waste Disposal
 Municipal Treatment Availability

SUPPLEMENTAL DISCHARGE MONITORING REPORTS

Annual Maintenance Report
 Non-Compliance Report Form
 Laboratory Accreditation Sheet

ANNUAL MAINTENANCE REPORTS

For this permit, the operative compliance mechanism will be the Annual Maintenance Report (AMR), which is to be submitted annually. No Discharge Monitoring Reports (DMRs) will be utilized. The AMR will also be used to document maintenance activities which occur in the period between June 01 and May 31 of each year.

As mentioned above, the results for the required 1/Year sampling of Flow, BOD5, Total Suspended Solids and Fecal Coliforms are to be reported on the AMR.

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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) and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date

Discharge Parameter	Mass Limits (lb/day)		Concentration Limits (mg/L)				Monitoring Requirements	
	Monthly Average	Daily Maximum	Minimum	Monthly Average	Daily Maximum	IMAX	Minimum Measurement Frequency	Required Sample Type
Flow (GPD)	Report	XXX	XXX	XXX	XXX	XXX	1/Year	Estimate
BOD5	XXX	XXX	XXX	10	XXX	20	1/Year	Grab
Total Suspended Solids	XXX	XXX	XXX	10	XXX	20	1/Year	Grab
Fecal Coliform (No./100mL)	XXX	XXX	XXX	200 Annual Average	XXX	XXX	1/Year	Grab

END of Fact Sheet.

