

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0209686
APS ID 1000928
Authorization ID 1286986

Applicant, Facility and Project Information

Applicant Name	<u>Thomas L. Harris</u>	Facility Name	<u>Harris Residence SFTF</u>
Applicant Address	<u>9855 Curwensville Tyrone Highway</u> <u>Curwensville, PA 16833-6501</u>	Facility Address	<u>9855 Curwensville Tyrone Highway</u> <u>Curwensville, PA 16833-6501</u>
Applicant Contact	<u>Thomas Harris</u>	Facility Contact	<u>Thomas Harris</u>
Applicant Phone	<u>814-236-3587</u>	Facility Phone	<u>814-236-3587</u>
Client ID	<u>115007</u>	Site ID	<u>487143</u>
SIC Code	<u>8800</u>	Municipality	<u>Pike Township</u>
SIC Description	<u>Private Households</u>	County	<u>Clearfield</u>
Date Application Received	<u>September 03, 2019</u>	WQM Required	<u>N/A</u>
Date Application Accepted	<u>September 09, 2019</u>	WQM No.	<u>1798405</u>
Project Description	<u>Renewal of NPDES Permit</u>		

Summary of Review

INTRODUCTION

Thomas L. Harris, owner, proposed the renewal of the existing National Pollution Discharge Elimination System (NPDES) permit authorizing the discharge of treated domestic wastewater from the small flow treatment facility (SFTF) serving his residence in Pike Township, Clearfield County.

See Attachment 01 for a map of the site location.

APPLICATION

Harris submitted the National Pollution Discharge Elimination System (NPDES) Application for Individual Permit to Discharge Sewage Effluent from Small Flow Treatment Facilities (DEP #3800-PM-BCW0018b). This application was received by the Department on September 03, 2019 and was considered administratively complete on September 09, 2019. The client and site contact is Thomas Harris.

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	<i>Jeffrey J. Gocek</i> Project Manager	08/27/2020
X		Nicholas W. Hartranft, PE	<i>Nicholas W. Hartranft</i> Environmental Engineer Manager	08/27/2020

OUTFALL

The discharge of treated domestic wastewater from this SFTF occurs through Outfall 001. This outfall is located at latitude 40° 55' 09.00" and longitude -78° 30' 48.00". The design flow of this SFTF is 0.0004 MGD. The discharge is to an Unnamed Tributary to Little Clearfield Creek.

The nearest downstream public water supply intake is the PA-American Water Company, located in Milton, PA. The receiving stream at the intake is the West Branch Susquehanna River. The river mile index at the intake is 10.66, while the flow at the intake is 680 CFS. This intake is approximately 175 river miles downstream from the discharge.

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

The SFTF consists of a 1,000-gallon septic tank, a 600-square foot subsurface sand filter, erosion chlorination and a 200-gallon chlorine contact tank.

This design was approved by Water Quality Management (WQM) permit #1798405, issued August 18, 1998.

See Attachment 02 for the treatment schematic.

COMPLIANCE HISTORY

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

The most recent Department inspection, a SFTF Compliance Inspection, was performed July 28, 2017. At the time of the inspection, all treatment units were online and operational. No violations were noted during the inspection.

At the last issuance (renewal) of this permit, the minimum measurements frequencies for Flow, CBOD5, Total Suspended Solids and Fecal Coliforms were changed from *Upon Request* to *1/Year*. Although the Annual Maintenance Report forms have been submitted annual with the monthly Total Residual Chlorine sample results, none of the annual samples for the above listed parameters have been received to date.

EXISTING PERMIT LIMITATIONS

The following limitations were established at the last renewal issuance, which occurred February 17, 2015.

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
Total Residual Chlorine	XXX	XXX	XXX	Report	XXX	Report	1/Month	Grab
CBOD ₅	XXX	XXX	XXX	10	XXX	20	1/Year	Grab
TSS	XXX	XXX	XXX	10	XXX	20	1/Year	Grab
Fecal Coliform (CFU/100 mL)	XXX	XXX	XXX	200 Geometric Mean	XXX	XXX	1/Year	Grab

DEVELOPMENT OF EFFLUENT LIMITATIONS

Technology-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
BOD ₅ (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

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.

Anti-Backsliding

In order to comply with 40 CFR § 122.44(l) (anti-backsliding requirements), the Department must issue a renewed permit with limitations as stringent as that the of the previous permit.

No less stringent limitations have been proposed.

RECEIVING STREAM

Stream Characteristics

The receiving stream is an Unnamed Tributary to Clearfield Creek. This stream, according to 25 PA § 93.9L, is protected for *High Quality – Cold Water Fishes (HQ-CWF)* 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 Unnamed Tributary to Clearfield Creek is identified by Department stream code 36131. The stream is located in (Chapter 93) drainage list L and State Water Plan 8C (Clearfield Creek).

Impairment

This Unnamed Tributary to Clearfield Creek is attaining its designated uses for *Aquatic Life*. The downstream Clearfield Creek is not meeting its designated uses. Because of that, a Total Maximum Daily Load (TMDL) was finalized for this waterbody in 2007. A TMDL sets a ceiling on the pollutant loads that can enter a waterbody so that the waterbody will meet water quality standards. This TMDL was approved by EPA in 2007. The cause of the impairment is Metals and Low pH, while the source of the impairment is Abandoned Mine Drainage.

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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
- Total Residual Chlorine Minimization
- 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 is to be reported on the AMR.

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
Total Residual Chlorine	XXX	XXX	XXX	Report	XXX	XXX	1/Month	Grab
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.