

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP

Application No. PA0232360
APS ID 1097000
Authorization ID 1455169

Applicant, Facility and Project Information

Applicant Name	Gordon R. Hall & Carmella. M Hill	Facility Name	Hall-Hill SFTF
Applicant Address	1255 Industrial Park Road Milton, PA 17847-8552	Facility Address	1255 Industrial Park Road Milton, PA 17847-8552
Applicant Contact	Gordon Hall	Facility Contact	Gordon Hall
Applicant Phone	570-394-0588	Facility Phone	570-394-0588
Client ID	357264	Site ID	762483
SIC Code	8811	Municipality	West Chillisquaque Township
SIC Description	Services - Private Households	County	Northumberland
Date Application Received	September 18, 2023	WQM Required	No
Date Application Accepted	February 02, 2024	WQM No.	4913403-T1
Project Description	Renewal of NPDES permit		

Summary of Review

INTRODUCTION

Gordon Hall and Carmella Hill (Hall-Hill), owners, have applied for the renewal of their existing NPDES permit authorizing the discharge from their small flow treatment facility (SFTF) in West Chillisquaque Township, Northumberland County.

APPLICATION

Hall-Hill submitted the NPDES Application for Individual Permit to Discharge Sewage Effluent from Small Flow Treatment Facilities (DEP #3800-PM-BCW0018b). The application was first submitted on September 18, 2023, and considered administratively complete on February 02, 2024. Additional contact information for Hill-Hall is (email) gordo7676@gmail.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	Return	Deny	Signatures	Date
X			Jeffrey J. Gocek, EIT Project Manager 	05/02/2025
X			Nicholas W. Hartranft, PE Environmental Engineer Manager 	05/02/2025

FACILITY DESCRIPTION

Flow from the residence is first conveyed to a 1,000 gallon two-compartment septic tank. The septic tank includes a solids retainer between the compartments as well as an effluent filter in the second compartment. Flow moves by gravity to the Ecoflo (peat) biofilter manufactured by Premier Tech (model STB-650BR-H2). Flow is then pumped to the Premier Tech ultraviolet (UV) disinfection unit (model DiUV-025). This unit is self-cleaning, contains two UV lamps and an alarm for bulb failure. Treated effluent is discharged into a ditch which flows south along Industrial Park Road until discharge to a wetland. This system has a design flow of 0.0004 MGD (400 gallons per day).

The design, construction, and operation of this SFTF was authorized by Water Quality Management (WQM) permit #4913403, issued June 10, 2013. This permit was issued to the first permittees, Paul and Sarah Eberly. Both permits were transferred to Hall-Hill in 2020. The design engineer, Daniel W. Martin, PE then with Mid-Penn Engineering of Lewisburg, PA, certified the construction of this SFTF on a form dated October 25, 2013.

See Attachment 01 for a map and Attachment 02 for site schematic.

COMPLIANCE HISTORY

The WMS Query Open Violations for Client revealed no unresolved violations for Hall-Hill.

The most recent Department compliance evaluation inspection (CEI) was conducted September 14, 2023. Assistance was provided to the permittee for completion of the NPDES renewal application. Violations noted in the inspection report include 1. failure to collect representative samples (once per year) and 2. failure to submit the renewal application at least 180 days prior to the permit expiration (January 31, 2024).

An Annual Maintenance Report (AMR) for 2024 has not been received to date.

Recent sample result data is presented in the table below.

Year	Flow Estimate (GPD)	UV Cleaned	Fecal Coliforms (MPN/100mL)	BOD5 (mg/L)	TSS (mg/L)
2024	NA	NA	1.0	2.0	< 3

OUTFALL

Outfall 001 is located at latitude 40°58'59.77" and longitude -76°50'05.42".

EXISTING LIMITATIONS

The following limitations were established at the permit issuance on January 22, 2019.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass (lb/day)		Concentration (mg/L, unless noted)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Maximum Daily	Minimum	Average Monthly	Maximum Daily	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/Year	Estimate
BOD ₅	XXX	XXX	XXX	10	XXX	20	1/Year	Grab
Total Suspended Solids	XXX	XXX	XXX	10	XXX	20	1/Year	Grab
Fecal Coliform (#/100mL)	XXX	XXX	XXX	200	XXX	1,000	1/Year	Grab

DEVELOPMENT 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 (MGD)	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./100mL)	200 (Annual Average)		Grab	1/Year

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Water Quality-Based Limitations

In accordance with Department policy, water quality modeling using the PENTOXSD, the WQM 7.0 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 of the previous permit. None are proposed.

Additional Parameters

In accordance with the above referenced SOP, the monitoring of pH and the UV disinfection system (UV Intensity or Transmittance) is not required for SFTFs.

RECEIVING STREAMStream Characteristics

The receiving stream is an Unnamed Tributary (UNT) to Chillisquaque Creek. This UNT to Chillisquaque Creek, 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*, which 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 UNT to Chillisquaque Creek is identified by stream code 18717. This stream is in (Chapter 93) drainage list L and State Water Plan watershed 10D (Chillisquaque and Muncy Creeks).

Impairment/TMDL

According to Department water quality data, the UNT to Chillisquaque Creek is not attaining its designated uses with respect to aquatic life and recreation. The stream is impaired by siltation due to agriculture (aquatic life) and by pathogens due to an unknown source (recreation). The UNT to Chillisquaque Creek is attaining its designated uses for fish consumption.

No Total Maximum Daily Load (TMDL) has been calculated for this stream or watershed.

ANNUAL MAINTENANCE REPORTS

For this permit, the Annual Maintenance Report (AMR), which is to be submitted annually, will remain the operative compliance mechanism. No Discharge Monitoring Reports (DMRs) will be utilized. The AMR will also be used to document maintenance activities. The results for the required 1/Year sampling of Flow, BOD5, Total Suspended Solids and Fecal Coliforms is to be reported on the AMR.

SUPPLEMENTAL DISCHARGE MONITORING REPORTS

Annual Maintenance Report
Non-Compliance Report Form
Laboratory Accreditation Sheet

CONTINUED on the next page.

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
 Ultraviolet Disinfection Cleaning

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 (lb/day)		Concentration (mg/L, unless noted)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Maximum Daily	Minimum	Average Monthly	Maximum Daily	Instant. Maximum		
Flow (MGD)	Report Annual Average	XXX	XXX	XXX	XXX	XXX	1/Year	Estimate
BOD ₅	XXX	XXX	XXX	10	XXX	20	1/Year	Grab
Total Suspended Solids	XXX	XXX	XXX	10	XXX	20	1/Year	Grab
Fecal Coliform (#/100mL)	XXX	XXX	XXX	200	XXX	XXX	1/Year	Grab

END of Fact Sheet.

ATTACHMENT 01



