pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northeast Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Application Type	**New**	Application No.	**PA0276847**
Facility Type	**Non-Municipal**	APS ID	**1106853**
Major / Minor	**Minor**	Authorization ID	**1472055**

Applicant and Facility Information

Applicant Name	**Porter Jeffrey A**	Facility Name	**820 Morvale Road**
Applicant Address	1400 Easton Road	Facility Address	820 Morvale Road
	Riegelsville, PA 18077-7227		Easton, PA 18042-6825
Applicant Contact	Jeffrey Porter	Facility Contact	Jeffrey Porter
Applicant Phone	(484) 544-0505	Facility Phone	(484) 544-0505
Client ID	383626	Site ID	867098
Ch 94 Load Status	Not Overloaded	Municipality	Williams Township
Connection Status	No Limitations	County	Northampton
Date Application Received	January 30, 2024	EPA Waived?	Yes
Date Application Accepted		If No, Reason	

Purpose of Application: New NPDES and WQM permit for SRSTP discharge.

Summary of Review

The applicant is requesting a new SRSTP NPDES permit for discharge of 400 gpd (0.0004 mgd) of treated sewage to Morgan Valley Run, a ~~h~~High Qquality – ~~and c~~Cold ~~-w~~Water Ffishes (HQ-CWF) receiving stream in state water plan basin 2-C (Lower Lehigh River)~~stream (HQ-CWF)~~. Morgan Valley Run is the ~~other~~ name for the unnamed tributary of Lehigh Canal/River, which the permittee has listed in the application as the receiving water. ~~Morgan Valley Run is in the Lower Lehigh River Watershed (2-C).~~ As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use. The SRSTP will replace the existing malfunctioning on-lot disposal system.

The proposed system will consist of primary treatment, followed by secondary treatment, and disinfection. Primary treatment will be through a 1500-gallon septic tank containing a PL-122 effluent filter. Discharge from this first tank will travel via gravity through a EC-7 500 C-P coco filter. A factory pump will discharge contents through a globe valve to adjust flow to 6gpm. flow will proceed via gravity through a 15' section of 4" SCHD 40 Pipe set at 0.01 ft/ft slope to a SALCOR 3G UV disinfection unit which will also be housed within a 24" ADS enclosure. From the UV unit flow will proceed via a 4" SCHD 40 pipe to an outfall discharging into the receiving stream.

Soils in the area consist of silt loam and gravelly loams.

The most stringent of the limitations in the PAG-04 general permit, water quality modeling, and antidegradation ABACT limitations are included in this permit (see table below). A note is added under the Part A effluent limitation table requiring the samples for Fecal Coliform and Ammonia-Nitrogen to be taken between June 1 and August 31 each year. The treatment plant will utilize ultraviolet light for disinfection so the sampling frequency for TRC is "daily when discharging". The permittee will have to sample for TRC only when using chlorine for cleaning the treatment system or if utilizing chlorine for back-up disinfection (see Part C.I.D.). As per ABACT standards, TRC must not be detected in the effluent. The maximum QL used

Approve	Deny	Signatures	Date
X		William Hon (signed) William Hon / Environmental Engineer Trainee	February 28, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager	3-6-24

Summary of Review

to analyze TRC must be 0.02 mg/L. Part C.II includes specific sampling requirements for TRC. Part C. III includes a requirement for monthly cleaning of the UV bulb contact surface. In addition to the annual average Fecal Coliform limitation below, an IMAX of 1,000 No./100mL is included in the permit.

Parameter	Monthly Average Limitations		
	ABACT (< 2,000 gpd)	Modeling	PAG-04 Permit
CBOD5 (5/1-10/31)	10.0	25.0	-
CBOD5 (11/1 – 4/30)	20.0	25.0	-
BOD5	-	-	**10.0**
Total Suspended Solids	20.0	30.0	**10.0**
NH3-N (5/1 – 10/31)	**5.0**	25.0	-
NH3-N (11/1 – 4/30)	15.0	Report	-
Total Residual Chlorine	**< 0.02 / ND**	0.5	Report
pH (standard units)	-	**6.0 – 9.0**	**6.0 – 9.0**
Fecal Coliform	-	200 / 2000	**200**

The default low flow yield (LFY) of 0.1 cfs/mi2 was used to model the discharge since there are no nearby representative stream gages and the drainage area is too small for USGS StreamStats to generate reliable flow assumptions in the delineated watershed. Drainage areas, RMIs and elevations were obtained using USGS StreamStats and DEP's eMapPA (see attached).

Act 537 planning approval was granted in a letter from the DEP, dated January 4, 2023. Water Quality Management (WQM) ~~general~~ permit application ~~WQG~~4824401 was submitted for construction of the treatment system.

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The Annual Maintenance Report (AMR) that's to be issued with the final permit shall be used to record the monitoring results. Discharge Monitoring Reports (DMRs) will not be sent will the final permit. EPA wavier is in effect.

Antidegradation guidance states that land application includes the installation of a treatment system providing a minimum of secondary treatment prior to release of the effluent onto the land. Project includes secondary treatment.

Public Participation

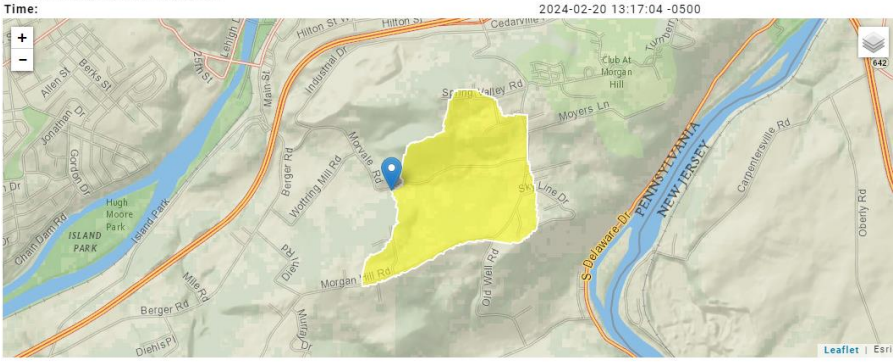
DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested 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 following data was used for modeling inputs:

@ Outfall 001 on Morgan Valley Run (stream code 3336)
RMI = 1.09
Drainage Area: 0.54 mi^2

Summary of Review

Clicked Point (Latitude, Longitude): 40.65684, -75.22281
Time: 2024-02-20 13:17:04 -0500



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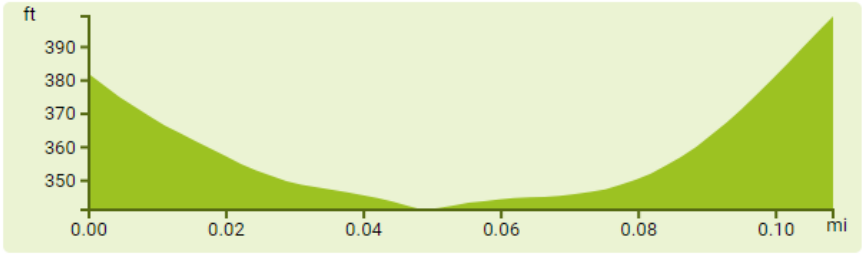
Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	100	percent
DRNAREA	Area that drains to a point on a stream	0.54	square miles

Elevation: 341 ft



@ confluence with Lehigh River
RMI = 0.01
Drainage Area: 1360 mi^2

Summary of Review

Clicked Point (Latitude, Longitude): 40.66285, -75.24088
Time: 2024-02-20 13:28:20 -0500

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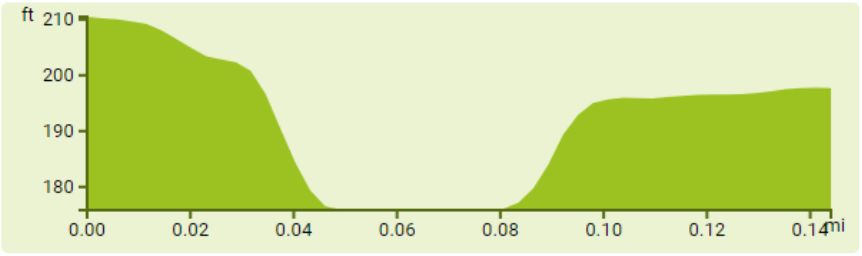
Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	17.03	percent
DRNAREA	Area that drains to a point on a stream	1360	square miles

Elevation: 175 ft



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