

Application Type New
 Facility Type Non-Municipal
 Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0276731
 APS ID 1093408
 Authorization ID 1448366

Applicant and Facility Information

Applicant Name	<u>Neil Bower</u>	Facility Name	<u>Neil Bower SRSTP</u>
Applicant Address	<u>6968 Bake Oven Road</u> <u>Germansville, PA 18053</u>	Facility Address	<u>6968 Bake Oven Road</u> <u>Germansville, PA 18053</u>
Applicant Contact	<u>Neil Bower</u>	Facility Contact	<u>Neil Bower</u>
Applicant Phone	<u>(610) 841-7775</u>	Facility Phone	<u>(610) 841-7775</u>
Client ID	<u>378804</u>	Site ID	<u>865225</u>
Ch 94 Load Status	<u>N/A</u>	Municipality	<u>Heidelberg Township</u>
Connection Status	<u>N/A</u>	County	<u>Lehigh</u>
Date Application Received	<u>June 29, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>June 29, 2023</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>New NPDES permit.</u>		

Summary of Review

The applicant is requesting a new SRSTP NPDES permit for discharge of 500 gpd (0.0005 MGD) of treated sewage to an unnamed tributary to Jordan Creek, a HQ-CWF/MF designated receiving stream in State Water Plan Basin 02-C (Lower Lehigh River). The unnamed tributary doesn't appear on DEP's eMapPA but is shown on the USGS StreamStats interactive map. 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 an existing malfunctioning on-lot disposal system.

Water quality modeling was not performed. All monitoring parameters from the PAG-04 general permit are included in this permit as well as E. Coli. BOD₅ and TSS both have annual average limitations of 10.0 mg/L and IMAX limitations of 20.0 mg/L and are to be sampled at least once per year. Fecal coliform has a year-round 200 No./100mL annual average limitation and is to be sampled once per year. A note is added under the Part A effluent limitation table requiring the samples for Fecal Coliform to be taken between June 1 and August 31 each year. pH must be between 6.0 S.U. and 9.0 S.U. at all times and is to be sampled for once per year. The treatment plant will utilize ultraviolet light for disinfection so the sampling frequency for TRC was updated to "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.). Standard technology-based limitations are included for TRC.

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 with the final permit.

The applicant applied for a Water Quality Management permit for the construction of the small flow treatment facility to serve the residence (WQM application WQG012232). The SRSTP will include a 1,250-gallon Roth MultiTank Model RMT-1250 septic tank with a gas deflector and an Orenco AdvanTex AX20-RTUV Combo Mode B with two compartments. An Orenco UV light will then disinfect the wastewater before discharge via ¾ HP 4-inch submersible pump through a 1" ball valve set to reduce the flow rate to 6 gpm or less. Flows then pass through a 1" to 4" coupling and then by gravity through 4" SCH40

Approve	Deny	Signatures	Date
X		<i>Brian Burden</i> Brian Burden, E.I.T. / Project Manager	August 30, 2023
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Program Manager	10-31-23

Summary of Review

PVC. The last 50-foot section of the discharge pipe will be perforated pipe wrapped by permeable geotextile fabric to act as an infiltration/mixing gallery before exiting to an endwall structure that is directed to the unnamed tributary.

Act 537 planning approval for the discharge was sent to the permittee in an emailed letter dated June 15, 2023.

Antidegradation Considerations

A functioning treatment system with a stream discharge is more environmentally sound than a malfunctioning on-lot system that discharges to the groundwater in the watershed. It was determined the 7.84-acre site contains soils that are unsuitable for a conventional or alternate sewage disposal system and there are no nearby sewage collection systems to convey wastewater from the residence. Provisions are included in the system design to minimize the impacts of the stream discharge.

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		<i>Brian Burden</i> Brian Burden, E.I.T. / Project Manager	August 30, 2023
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Program Manager	10-31-23