

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0245127
APS ID 999195
Authorization ID 1284742

Applicant, Facility and Project Information

Applicant Name	<u>Wolfington, Katherine & Schindler, Thomas</u>	Facility Name	<u>Wolfington & Schindler SRSTP</u>
Applicant Address	<u>910 Stargazers Road Coatesville, PA 19320</u>	Facility Address	<u>910 Stargazers Road Coatesville, PA 19320</u>
Applicant Contact	<u>Thomas Schindler</u>	Facility Contact	<u>Thomas Schindler</u>
Applicant Phone	<u>(610) 444-6216</u>	Facility Phone	<u>(610) 444-6216</u>
Client ID	<u>351729</u>	Site ID	<u>835829</u>
SIC Code	<u>4952</u>	Municipality	<u>Newlin Township</u>
SIC Description	<u>Trans. & Utilities - Sewerage Systems</u>	County	<u>Chester</u>
Date Application Received	<u>July 29, 2019</u>	WQM Required	<u></u>
Date Application Accepted	<u></u>	WQM App. No.	<u>1519406</u>
Project Description	<u>Single residence small flow treatment plant</u>		

Summary of Review

The design flow is 500 gallons per day (gpd) of residential sewage. The treatment plant consists of one 1,500 gallon dual-chambered septic tank with a Biotube effluent filter and pump. The septic tank/filter effluent is sent to an Orenco AX20NS pod which contains a textile filter and will recirculate a portion of the pod effluent back to the septic tank. The remainder of the flow goes from the pod to a 48-inch diameter tank equipped with an Orenco ultraviolet (UV) disinfection unit, followed by a lift pump, with an operational point of 44 gpm at 17 feet of head, to transport the water via a discharge pipe to the outfall (stream discharge). The proposed SRSTP does not meet the design standards of the Small Flow Treatment Facilities Manual (Technical Guidance Number 362-0300-002) due to the use of a textile filter and as such does not qualify for a General Permit and an Individual Permit is required.

The discharge is into Tributary 00117 to West Branch Brandywine Creek with a designated use of Warm Water Fishes (WWF) and Migratory Fishes (MF). The permit limitations and citations are shown on the following pages.

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
		Harmonie Hawley, PhD, PE / Environmental Engineering Specialist	September 27, 2019
		Pravin C. Patel, P.E. / Environmental Engineer Manager	October 1, 2019

Summary of Review

Act 14 Notifications:

Newlin Township – July 9, 2019

Chester County – July 9, 2019

Proposed Part C Conditions:

- A. AMR to DEP
- B. DMR to DEP if Attached
- C. 1/year Measure Depth of Septage and Scum
- D. Septic Tanks Pumped Once Every Three Years
- E. Total Residual Chlorine Requirement
- F. No Stormwater
- G. Necessary Property Rights
- H. Proper Sludge Disposal
- I. Abandon STP when Municipal Sewers Available

Compliance History	
Summary of DMRs:	Not Applicable
Summary of Inspections:	Not Applicable

Other Comments: This is a new permit so there is no compliance history.

The discharge is into Tributary 00117 to West Branch Brandywine Creek with a designated use of Warm Water Fishes (WWF) and Migratory Fishes (MF), and is a perennial tributary. This is part of the Brandywine Basin and thus the larger Christina River Basin. The effluent limits and monitoring requirements are based on the Standard Operating Procedure (SOP) for Clean Water Program New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications (SOP No. BCW-PMT-003), Final November 9, 2012; Revised May 17, 2019, Version 1.8. Monitoring frequency is once per year for each parameter. The Flow shall be reported in GPD. Grab samples for BOD₅, TSS and Fecal Coliform shall be analyzed. The limits are noted in the following table. As the facility uses UV light for disinfection, TRC will not be required.

This facility is located in the Christina River Basin for which a Total Maximum Daily Load (TMDL) exists; however, the facility is not listed for a Waste Load Allocation (WLA) for high flow (document: EPA, Revisions to Total Maximum Daily Loads for Nutrient and Low Dissolved Oxygen Under High Flow Conditions Christina River Basin, Pennsylvania, Delaware, and Maryland, September 2006) or for low flow (EPA, Total Maximum Daily Loads of Nutrients and Dissolved Oxygen Under Low-Flow Conditions in the Christina River Basin, Pennsylvania, Delaware and Maryland, January 19, 2001; Revised October 2002; revised April 2006) . As the facility is located in this basin, Total Nitrogen (TN) and Total Phosphorus (TP) monitoring once per year shall be required for the facility to determine baseline conditions.

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 Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001

Other Comments: See previous page. This facility uses UV for disinfection.