

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0245348  
APS ID 1052134  
Authorization ID 1376997

**Applicant, Facility and Project Information**

Applicant Name	<u>Wavrek Dorothy</u>	Facility Name	<u>518 Beechwood Dr SFTF</u>
Applicant Address	<u>518 Beechwood Drive</u> <u>Kennett Square, PA 19348-1804</u>	Facility Address	<u>518 Beechwood Drive</u> <u>Kennett Square, PA 19348-1804</u>
Applicant Contact	<u>Dorothy Wavrek</u>	Facility Contact	<u>Dorothy Wavrek</u>
Applicant Phone	<u>(610) 613-8730</u>	Facility Phone	<u>(610) 613-8730</u>
Client ID	<u>366900</u>	Site ID	<u>852418</u>
SIC Code	<u>4952</u>	Municipality	<u>East Marlborough Township</u>
SIC Description	<u>Trans. &amp; Utilities - Sewerage Systems</u>	County	<u>Chester</u>
Date Application Received	<u>November 23, 2021</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>Not Applicable</u>	WQM App. No.	<u>1521413</u>
Project Description	<u>SRSTP to replace failing on-lot system.</u>		

**Summary of Review**

This permit application was submitted for a National Pollutant Discharge Elimination System (NPDES) permit for a Single Residence Sewage Treatment Plant (SRSTP) to replace on a failing on-lot system. The discharge will be to an Un-Named Tributary to East Branch Red Clay Creek.

The treatment facility is a 1,500-gallon dual chambered septic tank, Orenco Bio-Filter and Recirculating pump to dose the textile filter, an Advantex AX20NS-UV pod with denitrification, UV disinfection, and discharge pump to the outfall. The design flow is 500 gallons per day (gpd).

The permit limits in this permit are consistent with the Standard Operating Procedures New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications, SOP No. BCW-PMT-003, Revised May 17, 2019, Version 1.8. The monitoring frequency are 1/year for all parameters except for monitoring of the UV system which is 1/month. The sample type is grab samples for all parameters except for flow which is "estimate". pH and ammonia are added to the permit limits as these are standard parameters in individual permits. Total Nitrogen and Total Phosphorous monitoring were added due the facility being located in the Christina River Basin which is has a Total Maximum Daily Load (TMDL) for those parameters. This facility is not directly listed in the TMDL, but the TMDL was evaluated for parameters and limits for permitted facilities which were similar to this facility (i.e. SRSTP).

Plan 537 approval was obtained October 12, 2021 (DEP Code No. 1-15920-300-3s) for 500 gpd.

An Open Violations report was run on December 6, 2021 and no open violations were found.

Act 14 Notifications:

Chester County Received October 13, 2021

East Marlborough Township Received October 13, 2021

Approve	Deny	Signatures	Date
X		Harmonie Hawley, PhD, PE / Environmental Engineering Specialist /s/	December 7, 2021
X		Pravin C. Patel, P.E. / Environmental Engineer Manager /s/	12/08/2021

### Summary of Review

#### 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.

#### 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

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0005</u>
Latitude	<u>39° 52' 3.33"</u>	Longitude	<u>-75° 40' 53.91"</u>
Quad Name	<u>East Marlborough Township</u>	Quad Code	<u>15920</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to East Branch Red Clay Creek (TSF, MF)</u>	Stream Code	<u>Unknown or 00418</u>
NHD Com ID	<u>26092176</u>	RMI	<u>0.0600</u>
Drainage Area	<u>0.3 square miles</u>	Yield (cfs/mi <sup>2</sup> )	<u>0.108</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.0323</u>	Q <sub>7-10</sub> Basis	<u>PA StreamStats</u>
Watershed No.	<u>3-I</u>	Chapter 93 Class.	<u>TSF, MF</u>
Existing Use	<u>TSF, MF</u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u>None</u>	Exceptions to Criteria	<u>None</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>Cause Unknown, Organic Enrichment, Siltation</u>		
Source(s) of Impairment	<u>Agriculture, Municipal Point Source Discharges</u>		
TMDL Status	<u>Final, Final</u>	Name	<u>Christina River Basin, Red Clay Creek Watershed</u>
Nearest Downstream Public Water Supply Intake	<u>None noted on the tributary</u>		

Changes Since Last Permit Issuance: None, new permit.

Other Comments: The water is also known as Tributary 00418 of East Branch Red Clay Creek. The RMI is from the outfall to the confluence with Tributary 00414 to East Branch Red Clay Creek. The stream code for East Branch Red Clay Creek is 00413.

There is no compliance history as this is a new facility.

**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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> 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
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/year	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab
UV Intensity (mW/cm <sup>2</sup> )	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Ammonia	XXX	XXX	XXX	10.0	XXX	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001

Other Comments: None