

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0244511
APS ID 1100715
Authorization ID 1461447

Applicant, Facility and Project Information

Applicant Name	<u>Melissa & John Richardson</u>	Facility Name	<u>Richardson SRSTP</u>
Applicant Address	<u>177 Creamery Road</u> <u>Coatesville, PA 19320-1716</u>	Facility Address	<u>177 Creamery Road</u> <u>Coatesville, PA 19320-1716</u>
Applicant Contact	<u>Melissa & John Richardson</u>	Facility Contact	<u>Melissa & John Richardson</u>
Applicant Phone	<u>(609) 509-4367</u>	Facility Phone	<u>(609) 509-4367</u>
Client ID	<u>329500</u>	Site ID	<u>722124</u>
SIC Code	<u>8811</u>	Municipality	<u>West Caln Township</u>
SIC Description	<u>Services - Private Households</u>	County	<u>Chester</u>
Date Application Received	<u>November 1, 2023</u>	WQM Required	<u></u>
Date Application Accepted	<u>November 15, 2023</u>	WQM App. No.	<u></u>
Project Description	<u>Permit Renewal.</u>		

Summary of Review

The permittee has requested renewal of their NPDES permit for discharges from the single residential sewage treatment plant (facility) through Outfall 001 to UNT West Branch Brandywine Creek.

The facility consists of Dual and single chamber septic tanks with effluent filter in each tank, sand filter dosing pump, buried recirculating sand filter, tank with splitter box. A tank for UV disinfection also has an air compressor to provide 5 mg/L dissolved oxygen.

Ultraviolet disinfection is used at the facility.

According to the application the facility has been in use starting 2016.

Reviews of the effluent testing results in the application shows a high fecal coliform result. The UV bulb was replaced which led to fecal coliform results within permit limits by December 2022. The DO result was low in the DMR data, but the aerator tubing was replaced at the end of August.

Therefore, previously established effluent limits and monitoring requirements are being proposed in draft permit as listed in page 4.

Act 14 Notifications:

On October 25, 2023, the permittee sent West Caln Township notification regarding NPDES permit renewal to DEP.

On November 1, 2023, the permittee sent Chester County Board of Commissioners notification regarding NPDES permit renewal to DEP.

Approve	Deny	Signatures	Date
X		<i>Amy Boginsky</i> Amy Boginsky, MS, EIT / Environmental Engineering Specialist	May 24, 2024
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	05/24/2024

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.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0005</u>
Latitude	<u>40° 0' 59.95"</u>	Longitude	<u>-75° 52' 21.58"</u>
Quad Name	<u>Wagontown</u>	Quad Code	<u>1839</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to West Branch Brandywine Creek (HQ-CWF, MF)</u>	Stream Code	<u>00215</u>
NHD Com ID	<u>26105686</u>	RMI	<u>1.6</u>
Drainage Area	<u>0.5 mi²</u>	Yield (cfs/mi ²)	<u>0.0121</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.00605</u>	Q ₇₋₁₀ Basis	<u>StreamStats</u>
Elevation (ft)	<u>616.93</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>3-H</u>	Chapter 93 Class.	<u>HQ-CWF, MF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u></u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u>Final</u>	Name	<u>Christina River Basin</u>
Nearest Downstream Public Water Supply Intake	<u>None</u>		
PWS Waters	<u></u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u></u>

Changes Since Last Permit Issuance: None

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
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/year	Grab
DO	XXX	XXX	6.0 Inst Min	XXX	XXX	XXX	1/year	Grab
CBOD5	XXX	XXX	XXX	20.0	XXX	40	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
Ammonia	XXX	XXX	XXX	9.0	XXX	18	1/year	Grab

Compliance Sampling Location: Outfall 001