

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0244619
APS ID 1076852
Authorization ID 1419609

Applicant, Facility and Project Information

Applicant Name	<u>Wachs Rachel A</u>	Facility Name	<u>Rachel Wachs Properties</u>
Applicant Address	<u>215 W Church Road</u> <u>King Of Prussia, PA 19406-3203</u>	Facility Address	<u>1107 Manor Road</u> <u>Coatesville, PA 19320</u>
Applicant Contact	<u>Rachel Wachs</u>	Facility Contact	<u>Rachel Wachs</u>
Applicant Phone	<u>(610) 942-3000</u>	Facility Phone	<u>(610) 942-3000</u>
Client ID	<u>88236</u>	Site ID	<u>726817</u>
SIC Code	<u>8811</u>	Municipality	<u>West Brandywine Township</u>
SIC Description	<u>Services - Private Households</u>	County	<u>Chester</u>
Date Application Received	<u>December 1, 2022</u>	WQM Required	<u></u>
Date Application Accepted	<u></u>	WQM App. No.	<u></u>
Project Description	<u>.</u>		

Summary of Review

The permittee request approval for the renewal of a National Pollutant Discharge Elimination System (NPDES) Individual permit to discharge 400 gallons per day (gpd) of treated sewage effluent from Wachs Single Residence Sewage Treatment Plant (SRSTP) to unnamed tributary to West Branch Brandywine Creek a designated High Quality – Trout Stocking Fishes (HQ-TSF) under Chapter 93 in watershed 3H.

The treatment process consists of influent flows into two zone Bio Barrier Membrane tank then into the Infiltrator Pump Tank, Ultraviolet Disinfection, then effluent is pumped via low pressure force main to stream discharge.

There are no changes in the flow, stream designation, and influent quality, therefor the previous effluent limitation are carried over to the new permit. The following limits will remain in this permit renewal:

Parameter	Limit	SBC
CBOD5 (5/1-10/31)	10 mg/l	Average Monthly
CBOD5 (11/1-4/30)	20 mg/l	Average Monthly
Total Suspended Solids	10 mg/l	Average Monthly
NH3-N (5/1-10/31)	1.5 mg/l	Average Monthly
NH3-N (11/1-4/30)	4.5 mg/l	Average Monthly
Fecal Coliform	200/100 ml, Geometric Mean	
Dissolved Oxygen	6 mg/l	Minimum
pH	6 – STD Units	
Total Nitrogen	Report	Average Monthly
Total Phosphorus	Report	Average Monthly

Approve	Deny	Signatures	Date
X		<i>Charley Yang</i> Charley Yang / Environmental Engineering Specialist	March 9, 2023
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	03/09/2023

Summary of Review

Ultraviolet light intensity reporting requirement was added in the previous permit renewal to make sure the ultraviolet disinfection is working as intended.

The watershed is part of the Christina River Basin TMDL for nutrients and DO. Septic systems were accounted for in the TMDL (background load allocation). A properly functioning treatment system with stream discharge is expected to result in reduced pollutant loadings to the watershed than the former failing septic system. Monitoring for total nitrogen and total phosphorus will remain in this permit renewal.

Proposed Part C Conditions:

- I. Other Requirements
 - A. AMR to DEP
 - B. DMR to DEP
 - C. Depth of Septage
 - D. Solids Removal from Septic Tanks
 - E. No Stormwater
 - F. Necessary Property Rights
 - G. Proper Sludge Disposal

Abandon STP when Municipal Sewers Available

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 and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0004</u>
Latitude	<u>40° 0' 25.30"</u>	Longitude	<u>-75° 49' 14.46"</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</u>	Stream Code	<u>00211</u>
NHD Com ID	<u>26105714</u>	RMI	<u>0.35</u>
Drainage Area	<u>1.85 mi²</u>	Yield (cfs/mi ²)	<u>0.112</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.207</u>	Q ₇₋₁₀ Basis	<u>Pennsylvania StreamStats</u>
Elevation (ft)	<u>535.9</u>	Slope (ft/ft)	<u>4.6</u>
Watershed No.	<u>3-H</u>	Chapter 93 Class.	<u></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>

Changes Since Last Permit Issuance: No Change

Other Comments:

3/8/2023 update:

Per the email from Hydraterra Professionals,

In 2012/2013 Rachel Wachs had contracted Hydraterra (HtP) to acquire a WQM, Joint Encroachment, and NPDES permit for a SFH in Chester County. The land was not suitable for onsite disposal. These three permits were obtained in 2013.

- WQM 1513402, issued May 7 2013, no expiration date
- Water Obstruction and Encroachment E15-836, issued Feb 14 2013, void date 12/31/2015
- NPDES PA0244619, effective June 1 2013, expire date May 31 2018

NPDES was renewed effective July 1 2018, Expired June 30 2023.

A new joint permit was issued on Dec 7, 2022 (E1501222-002) for the outfall structure.

A new WQM is necessary as the approved treatment equipment is no longer supported by the manufacturer. The applicant is working on submitting WQM permit soon.