

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

## NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0245232  
APS ID 1139873  
Authorization ID 1531424

### Applicant and Facility Information

Applicant Name	<u>George Short</u>	Facility Name	<u>George Short SRSTP</u>
Applicant Address	<u>1176 Timber Lane</u> <u>Chalfont, PA 18914-3451</u>	Facility Address	<u>1176 Timber Lane</u> <u>Chalfont, PA 18914-3451</u>
Applicant Contact	<u>George Short</u>	Facility Contact	<u>George Short</u>
Applicant Phone	<u>(215) 343-6724</u>	Facility Phone	<u>(215) 343-6724</u>
Client ID	<u>359313</u>	Site ID	<u>842480</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Warrington Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Bucks</u>
Date Application Received	<u>June 16, 2025</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u></u>	If No, Reason	<u></u>
Purpose of Application	<u>Permit Renewal</u>		

### Summary of Review

Applicant requests renewal of an NPDES permit to discharge treated sewage from George Short SRSTP to Unnamed Tributary to Mill Creek.

The site is an existing three-bedroom single-family residence on a 0.98 acres land previously served by an on-lot sewage disposal system.

The current treatment plant consists of 1500 gal 2-compartment septic tank with Polylok filter, followed by 276-gal lift pump tank, Premier Tech Aqua Ecoflo Biofilter Tank (EC7-500 series), Norweco AT 1500 UV disinfection unit, 4" Sch 40 PVC delivery pipe to riprap outfall at bank tributary.

The system has enough capacity to handle 400 GPD. The design for this facility is not in compliance with DEP's Small Flow Treatment Facilities Manual (Technical Guidance Number 362-0300-002) because of the use of biofilter, therefore, this facility doesn't qualify for coverage under general permit (PAG04.) The original permit was issued on 3/26/2021 for this system as an Individual NPDES permit.

No comments received from Operations Section.

Approve	Deny	Signatures	Date
X		<i>Sara Abraham</i> Sara Reji Abraham, E.I.T. / Project Manager	June 25, 2025
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	06/25/2025

### 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.

#### Act 14 notifications:

Warrington Township - May 23, 2025  
Bucks County - May 23, 2025

#### Permit Conditions:

- A. AMR to DEP
- B. DMR to DEP
- C. Septage and Scum Measurement
- D. Septic Tank Pumping
- E. Chlorine Optimization
- F. No Stormwater
- G. Acquire Necessary Property Rights
- H. Proper Sludge Disposal
- I. Abandon STP when Municipal Sewers Available
- J. UV System Cleaning

**Discharge, Receiving Waters and Water Supply Information**

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0004</u>
Latitude	<u>40° 16' 9.38"</u>	Longitude	<u>-75° 10' 22.47"</u>
Quad Name	<u>Doylestown</u>	Quad Code	<u>1644</u>
Wastewater Description: <u>Treated Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Mill Creek (TSF, MF)</u>	Stream Code	<u>02757</u>
NHD Com ID	<u>25479128</u>	RMI	<u>0.2700</u>
Drainage Area	<u>0.0378</u>		
Q <sub>7-10</sub> Flow (cfs)	<u>0.000337*</u>	Q <sub>7-10</sub> Basis	<u>StreamStats (from previous fact sheet)</u>
Watershed No.	<u>2-F</u>	Chapter 93 Class.	<u>TSF, MF</u>
Assessment Status	<u>Attaining Use(s)</u>		
TMDL Status	<u>Final</u>	Name	<u>Neshaminy Creek</u>

Changes Since Last Permit Issuance: None

\* Q<sub>7-10</sub> to Q<sub>d</sub> ratio is less than 3:1 and dry stream guidance is applicable. However, the facility is an SRSTP and an existing discharge, it is not necessary to apply the dry stream standard at this renewal.

Treatment Facility Summary				
Treatment Facility Name: George Short SRSTP				
WQM Permit No.		Issuance Date		
0920406		3/28/2021		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Primary	Septic Tank	Ultraviolet	0.0004
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
		Not Overloaded		

Changes Since Last Permit Issuance: None

**Development of Effluent Limitations**

<b>Outfall No.</b>	<u>001</u>	<b>Design Flow (MGD)</b>	<u>.0004</u>
<b>Latitude</b>	<u>40° 16' 9.00"</u>	<b>Longitude</b>	<u>-75° 10' 23.00"</u>
<b>Wastewater Description:</b> <u>Treated Sewage Effluent</u>			

The existing limits are derived from Standard Operating Procedure for New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications (SOP No. BCW-PMT-003). Minimum measuring frequency for all permit parameters is required once per year in accordance with the SOP.

The following limits are recommended for the draft permit:

Parameter	Limit (mg/l)	SBC	Basis
CBOD5	10	Avg Annual	SOP
	20	Imax	
TSS	10	Avg Annual	
	20	Imax	
Fecal Coliform	200	Avg Annual	
Flow	Report		
TRC *			
Total Phosphorus	Report		**
pH	6.0 to 9.0 Std Units		Chapter 93

\* UV system is for disinfection therefore no TRC limit is required. For SRSTPs, UV intensity /transmittance monitoring is not required to be included in the permit. Current monitoring for UV intensity is eliminated from the permit. A Part C condition requiring UV surface cleaning is included.

\*\*Due to the Neshaminy Creek TMDL, Phosphorus was included in the permit when it was originally issued in 2021.

\*\*\*BOD5 limit was included inadvertently in the original permit. More appropriate parameter, CBOD5 is included in the permit at this issuance.

pH limit is also included in the draft permit. This is a new parameter in the permit.

**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" (386-0400-001), 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	Instant. 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	XXX	XXX	9.0	1/year	Grab
CBOD5	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 Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab



Pennsylvania  
**Department of  
Environmental Protection**