

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0245305  
APS ID 1044966  
Authorization ID 1364392

**Applicant, Facility and Project Information**

Applicant Name	<u>Stephen J Eldgredge &amp; Melissa Novak Eldgredge</u>	Facility Name	<u>2261 S Valley Rd Repair STP</u>
Applicant Address	<u>2261 S Valley Road Berwyn, PA 19312</u>	Facility Address	<u>2261 S Valley Road Berwyn, PA 19312</u>
Applicant Contact	<u>Stephen &amp; Melissa Eldgredge</u>	Facility Contact	<u>Stephen &amp; Melissa Eldgredge</u>
Applicant Phone	<u>(610) 476-2803</u>	Facility Phone	<u>(610) 476-2803</u>
Client ID	<u>364675</u>	Site ID	<u>850755</u>
SIC Code	<u>4952</u>	Municipality	<u>Easttown Township</u>
SIC Description	<u>Trans. &amp; Utilities - Sewerage Systems</u>	County	<u>Chester</u>
Date Application Received	<u>July 22, 2021</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>July 22, 2021</u>	WQM App. No.	<u>1521405</u>
Project Description	<u>Single family residence STP on 2+/- acres</u>		

**Summary of Review**

The applicant requests approval for NPDES Permit to discharge treated sewage from a small flow package treatment plant serving single the residence located at 2261 S Valley Road located in Berwyn, Easttown Township, Chester County. This system is to replace a failing on-lot system.

This single residence is a 4-bedroom home expected to generate 500 gpd that will discharge to an unnamed tributary to Crum Creek, Outfall No. 001. The treatment plant will consist of a 1500- gallon dual chamber septic tank, Orenco Bio-Filter & Recirculating pump to dose textile filter, Advantex AX20RTUV processing pod with denitrification and a UV disinfection. The treated effluent flows via gravity over a rip rap spreader for discharge to the stream edge via outfall #001.

Since the discharge is to High Quality receiving stream, effluent limitations and monitoring requirements are proposed based on the Antidegradation Best Available Control Technology (391-0300-002), and Standard Operating Practices.

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
x		<i>Vasantha</i> Vasantha Palakurti / Environmental Engineering Specialist	August 20, 2021
		Pravin C. Patel, P.E. / Environmental Engineer Manager	

Discharge and Stream Data – 2 - Receiving Waters

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.0005
Latitude	40° 1' 7.67"	Longitude	-75° 28' 4.22"
Quad Name		Quad Code	
Wastewater Description: Treated Sewage Effluent			
Receiving Waters	Unnamed Tributary to Crum Creek (HQ-CWF, MF)	Stream Code	00735
NHD Com ID	25620410	RMI	0.1700
Drainage Area	1.33	Yield (cfs/mi <sup>2</sup> )	0.1
Q <sub>7-10</sub> Flow (cfs)	0.163	Q <sub>7-10</sub> Basis	PA StreamStats
Elevation (ft)	118.63	Slope (ft/ft)	
Watershed No.	3-G	Chapter 93 Class.	HQ-CWF, MF
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	CAUSE UNKNOWN, FLOW REGIME MODIFICATION		
Source(s) of Impairment	URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS		

**Development of Effluent Limits:**

The SRSTP discharges into the Crum Creek which is designated as High Quality – Cold Water Fishes (HQ-CWF), Migratory Fishes (MF).

**CBOD<sub>5</sub> & NH<sub>3</sub>-N:**

Since the receiving stream is designated as HQ, DEP's Antidegradation Policy is applicable to this site. Therefore, effluent limitations of CBOD<sub>5</sub> (10 mg/l) and NH<sub>3</sub>-N (5mg/l) are added to the permit. Minimum measuring frequency for all permit parameters, will be required once per year.

**Flow, TSS and Fecal Coliform:**

Limits for above mentioned parameters 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 will be required once per year in accordance with the SOP.

**Total Suspended Solids:**

The average monthly effluent limit for TSS is 20 mg/l per ABACT. The DEP's SOP (SOP No. BCW-PMT-003) limitations are more stringent than the ABACT, therefore TSS of 10 mg/l is added to the permit.

**pH:**

pH (6 – 9 STD units) is added to 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" (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	9.0	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/year	Grab
Ammonia	XXX	XXX	XXX	5.0	XXX	10	1/year	Grab

Compliance Sampling Location: Outfall 001

