

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0273104
APS ID 1021956
Authorization ID 1324278

Applicant, Facility and Project Information

Applicant Name	<u>Wayne W. Bowersox, Jr.</u>	Facility Name	<u>Wayne Bowersox SRSTP</u>
Applicant Address	<u>7750 Bargain Road</u> <u>Erie, PA 16509</u>	Facility Address	<u>7750 Bargain Road</u> <u>Erie, PA 16509</u>
Applicant Contact	<u>Wayne W. Bowersox, Jr.</u>	Facility Contact	<u>Wayne W. Bowersox, Jr.</u>
Applicant Phone	<u>(814) 566-4891</u>	Facility Phone	<u>(814) 566-4891</u>
Client ID	<u>358053</u>	Site ID	<u>790919</u>
SIC Code	<u>8800</u>	Municipality	<u>McKean Township</u>
SIC Description	<u>Private Households</u>	County	<u>Erie County</u>
Date Application Received	<u>August 11, 2020</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>August 24, 2020</u>	WQM App. No.	<u>2515403 will be transferred concurrently</u>
Project Description	<u>Renewal of an existing NPDES Permit for an existing Single Residence Sewage Treatment Plant (SRSTP). Ownership will be transferred with this application from Lucinda M. Smith to Wayne W. Bowersox, Jr.</u>		

Summary of Review

Act 14 - Proof of Notification was submitted and received.

The applicant should be able to meet the limits of this permit, which will protect the uses of the receiving stream.

I. OTHER REQUIREMENTS:

- | | |
|--|---------------------------------|
| A. AMRs | F. Stormwater into sewers |
| B. DMRs | G. Right of way |
| C. Depth of Septage and Scum Measurement | H. Solids handling |
| D. Septic Tank Pumping | I. Public Sewerage Availability |
| E. Effluent Chlorine Optimization and Minimization | |

SPECIAL CONDITIONS: None.

Proposed treatment will consist of: A Norweco Singular Model 960 aerobic unit consisting of a pretreatment chamber, an aeration chamber, and a final clarification chamber with a Salcor, Inc. Model 3G Ultraviolet (UV) light disinfection unit, all in series with a Bio-Film reactor.

There are no open violations in efacts for Client ID 358053 as of 11/18/2020.

Approve	Deny	Signatures	Date
X		Stephen A. McCauley Stephen A. McCauley, E.I.T. / Environmental Engineering Specialist	11/18/2020
X		Justin C. Dickey Justin C. Dickey, P.E. / Environmental Engineer Manager	11/19/2020

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.0004
Latitude	42° 01' 50.33"	Longitude	80° 08' 07.90"
Quad Name	-	Quad Code	-
Wastewater Description:		Sewage Effluent	
Receiving Waters	Unnamed Tributary to the Walnut Creek (HQ-CWF, MF)	Stream Code	N/A
NHD Com ID	123925701	RMI	N/A
Drainage Area	-	Yield (cfs/mi ²)	-
Q ₇₋₁₀ Flow (cfs)	-	Q ₇₋₁₀ Basis	-
Elevation (ft)	-	Slope (ft/ft)	-
Watershed No.	15-A	Chapter 93 Class.	HQ-CWF, MF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired*		
Cause(s) of Impairment	Flow Regime Modification, Habitat Alterations, Siltation		
Source(s) of Impairment	Site Clearance (Land Development or Redevelopment), Urban Runoff/Storm Sewers		
TMDL Status	Pending	Name	-
Background/Ambient Data		Data Source	
pH (SU)	-		-
Temperature (°F)	-		-
Hardness (mg/L)	-		-
Other:	-		-
Nearest Downstream Public Water Supply Intake	Pennsylvania - Canada International border		
PWS Waters	Lake Erie	Flow at Intake (cfs)	N/A
PWS RMI	N/A	Distance from Outfall (mi)	20

* - This discharge is not expected to add to any of the impairments of the stream.

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.

This SFTF was designed where possible in accordance with the SFTF Manual, but it does not qualify for the PAG-04 General Permit due to the use of a Norweco Singlair Model 960, and because the receiving stream is designated as High-Quality.

Limits were added for pH with this renewal/transfer and were set as 1/Month since the receiving stream is designated for High-Quality (HQ) waters.

No modeling was performed for this NPDES Permit as the Norweco Singlair Model 960 is capable of meeting CBOD5 and TSS limits of 10 mg/l, which is less than the inputs of the WQ model.

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/month	Grab
BOD5	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

Compliance Sampling Location: Outfall 001, after Ultraviolet (UV) light disinfection.

Flow is monitor only based on Chapter 92a.61. The limits for pH are technology-based on Chapter 93.7. The limits for BOD5, Total Suspended Solids, and Fecal Coliform are technology-based on Chapter 92a.47.