

Northwest Regional Office CLEAN WATER PROGRAM

Application Type	New
Wastewater Type	Sewage
Facility Type	SRSTP

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No.	PA0290441
APS ID	1057997
Authorization ID	1207066

Applicant, Facility and Project Information				
Applicant Name	Sandı	a & William Thornton	Facility Name	Sandra & William Thornton SRSTP 2
Applicant Address	262 R	ed Mills Road	Facility Address	16414 Route 226
	Pine E	Bush, NY 12566-6218		Albion, PA 16401
Applicant Contact	Williar	n Thornton	Facility Contact	
Applicant Phone	(814)	450-2298	Facility Phone	
Applicant E Mail			Facility E Mail	
Client ID	14255	7	Site ID	852145
Municipality	Conne	eaut Township	County	Erie
SIC Code	8800		SIC Code	4952
SIC Description	Privat	e Households	SIC Description	Trans. & Utilities - Sewerage Systems
Date Application Rece	eived	February 23, 2022	WQM Required	Concurrently pending
Date Application Acce	epted	March 24, 2022	WQM App. No.	2522405

Summary of Review

Being retained by the applicant are additional permitted facilities of the same size are 620 feet further east and across Route 226.

Design load is greater than the Planning approval. Discussed with Donna Ulan Smith on March 24, 2022 and the change approved as insignificant (1 bedroom addition to a single residence).

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
V		William H. Mentzer	
Λ		William H. Mentzer, P.E. Environmental Engineering Specialist	April 19, 2022
X		Justin C. Dickey Justin C. Dickey, P.E. Environmental Engineer Manager	April 25, 2022

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving	Waters and Water Supply Informa	tion		
Outfall No.	001	Design Flow (MGD)	0.0005	
Latitude DP	41° 52' 40.00"	Longitude DP	-80° 29' 31.30"	
Latitude NHD	41° 52' 46.45"	Longitude NHD	-80° 29' 33.69"	
Quad Name	East Springfield	Quad Code	0302	
Wastewater Descrip	otion: Treated single residence dor	mestic wastes		
Receiving Waters	Unnamed Tributary to Ashtabula Cr	eek Stream Code	unknown	
NHD Com ID	128582185	RMI	0.12	
Drainage Area	0.1	Yield (cfs/mi²)	0	
Q ₇₋₁₀ Flow (cfs)	0	Q ₇₋₁₀ Basis	Dry stream	
Elevation (ft)	946	Slope (ft/ft)	0.01	
Watershed No.	15-A	Chapter 93 Class.	CWF, MF	
Existing Use	statewide	Existing Use Qualifier	none	
Exceptions to Use	none	Exceptions to Criteria	none	
Comments	Dry stream discharge to a pond on	tributary 63614 0.04 mile abov	e the pond outlet at RMI 0.77	
	At .03-square mile drainage and 93	0.00-feet elevation.		
Assessment Status	Attaining Use(s)			
Cause(s) of Impairn	nent			
Source(s) of Impair	ment			
TMDL Status		Name		
Background/Ambier	nt Data	Data Source		
pH (SU)				
Temperature (°F)				
Hardness (mg/L)	<u></u>			
Other:				
Nearest Downstream	m Public Water Supply Intake	State of Ohio		
PWS Waters A	Ashtabula Creek	Flow at Intake (cfs)	NA	
PWS RMI 0)	Distance from Outfall (mi)	1.6	

Changes Since Last Permit Issuance: NA

Other Comments: Stream data starts at the Ohio Border

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.

	Effluent Limitations					Monitoring Requirements		
Parameter	Mass Units (lbs/day) (1)		Concentrations (mg/L)			Minimum (2)	Required	
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (GPD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	Upon Request	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 disinfection

Other Comments: See AMR for UV radiation requirements.

NPDES Permit Fact Sheet Sandra & William Thornton SRSTP 2

Phosphorus Comments

No phosphorus requirements are proposed as the design is for less than 1-MGD.

Upstream permitted and not installed sewage treatment facilities under General NPDES permit PAG048660 and Individual WQM permit 2500404 do not include any phosphorus restrictions even through the discharge is to an unnamed tributary to Ashtabula Creek in Lake Erie Watershed 15-A and Drainage Basin X. The Department's Water Quality Stream list refers to the Great Lakes Water Quality Agreement (GLWQA),

The Lake Erie Basin water quality is regulated through GLWQA and International Joint Commission (IJC). Municipal Facilities discharging at least 1-MGD are limited to 1-mg/L phosphorus. Non-municipal and industrial waste discharges do not have a phosphorus requirement.

Design Manual: Onsite Wastewater Treatment and Disposal Systems, EPA 625/1-80-012, October 1980

6.6.3 Phosphorus Removal

Segregation, chemical precipitation and sorption.

Precipitation will remove orthophosphates with reduced removal of polyphosphates and organic phosphorus.

Iron and aluminum and calcium salts are used. Calcium salts are used with pH adjustment, Chemicals are added in a mixing tank after a septic tank and before a intermittent sand filter.

Treated effluent quality is site specific dependent on orthophosphate concentration and polyphosphate and organic phosphorus septic tank conversion to orthophosphate. The manual does not address facility size and automation.