pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southwest Regional Office
CLEAN WATER PROGRAM

Application Type	**New**	Application No.	**PA0284939**
Wastewater Type	**Sewage**	APS ID	**1066380**
Facility Type	**SRSTP**	Authorization ID	**1401291**

NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP

Applicant, Facility and Project Information

Applicant Name	**Teresa L Waltl**	Facility Name	**Waltl Properties SRSTP**
Applicant Address	999 Eldersville Road	Facility Address	999 Eldersville Road
	Burgettstown, PA 15021-2531		Burgettstown, PA 15021-2531
Applicant Contact	Teresa Waltl	Facility Contact	Teresa Waltl
Applicant Phone	(724) 554-1431	Facility Phone	(724) 554-1431
Client ID	370884	Site ID	858232
SIC Code	8800	Municipality	Jefferson Township
SIC Description	Private Households	County	Washington
Date Application Received	June 28, 2022	WQM Required	Yes
Date Application Accepted	June 29, 2022	WQM App. No.	6322403

Project Description: Application for a new NPDES permit authorize a discharge of a treated Sewage.

Summary of Review

The applicant proposes to construct a 400 GPD single residence sewage treatment plant to replace a malfunctioning on-lot system at an existing 3-bedroom home in Jefferson Township, Washington County.

The Engineer stated in his cover letter that this is an application for an existing four-bedroom single family dwelling, DEP called the applicant (Mrs. Waltl) which she corrected that information and confirmed that this application is to approve a treatment plant system for an existing three-bedroom home.

Any additional flow to this dwelling (e.g., addition of 100 GPD to the treatment system capacity)will have to go through DEP permit amendment process.

WQM Permit 6322403 will be issued concurrently with the final issuance of the NPDES Permit. The discharge is to an existing storm sewer inlet which flows through buried storm sewer pipe to UNT of Cross Creek, which is classified as WWF located in State Watershed 20-D.

The treatment plant that will be constructed on site consists of a Premier Tech EC7-500-P-P-PACK, which contains a concrete integrated septic tank, coco filter, DiUV disinfection unit of 500 GPD and effluent pump. The Premier Tech treatment unit has a rated capacity of 500 GPD and it's NSF Certified for the treatment of Residential Wastewater.

The Site Plan and the zoom in section on the plan (see page 7) shows an average of 234 feet of 2 in schedule 40 pipe that will deliver the effluent to the point of discharge (storm sewer inlet), which is located on the applicant's property and eventually discharges through an existing cross pipe to Tributary 33057.

Approve	Deny	Signatures	Date
X		Hazim Aldalli / Environmental Engineering Specialist	July 26, 2022
x		Mahbuba Iasmin / Mahbuba Iasmin, Ph.D., P.E. / Environmental Engineer Manager	August 5, 2022

Summary of Review

Checking on the effluent pump specs and operation, the CPEH5 pump will generate a 65 inch of head that can travel a 100 ft of horizontal distance max. using a 11/2 Ø pipe. The pipe diameter listed on the Site plan is 2 inches and it is consistent with the DEP Small Facilities Manual, Dec. 2006.

The grade of ¼ inch per 1 foot listed on the Site Plan under General Notes, number 17 would be applicable to the discharge pipe to ensure gravity for the pumped effluent.

The pump will deliver the produced head to the discharge point about 234 ft of distance.

Sampling should be grabbed after disinfection. Sampling point is prescribed under -F- on page 1 of the Owner's Manual (see page 16 of the WQM application).

Current policy does not require eDMR to be used for SRSTPs.

Act 537 Planning was approved for this project on June 24, 2022.

The applicant has no open, or unresolved violations.

The Act – 14 PL 834 Municipal Notifications were provided by the March 12, 2022 letters attached to the application, and no comments were noticed.

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.	001	Design Flow (MGD)	0.0004
Latitude	40º 21' 28.26"	Longitude	-80º 26' 29.89"
Quad Name	Avella	Quad Code	40080C4
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary of Cross Creek (WWF)	Stream Code	33057
NHD Com ID	99691142	RMI	1.630
Drainage Area	0.24	Yield (cfs/mi^2)	0.006
Q_{7-10} Flow (cfs)	0.00147	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	1282	Slope (ft/ft)	0.0014
Watershed No.	20-D	Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use	None.	Exceptions to Criteria	None.
Assessment Status	Attaining Use(s): Aquatic Life.		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	

Background/Ambient Data		Data Source
pH (SU)		
Temperature (°F)		
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake		Independence TWP Muni Auth	
PWS Waters	Cross Creek	Flow at Intake (cfs)	0.473
PWS RMI	7.7	Distance from Outfall (mi)	>9.0

Changes Since Last Permit Issuance: N/A (New Facility).

Other Comments: None.

Treatment Facility Summary				
Treatment Facility Name: Waltl Properties SRSTP.				
WQM Permit No.	**Issuance Date**			
6322403	Processing			
Waste Type	**Degree of Treatment**	**Process Type**	**Disinfection**	**Avg Annual Flow (MGD)**
Sewage	Tertiary	Septic Tank, Sand Filter	Ultraviolet	0.0004
Hydraulic Capacity (MGD)	**Organic Capacity (lbs/day)**	**Load Status**	**Biosolids Treatment**	**Biosolids Use/Disposal**
0.0004	---	Not Overloaded	Septic Tank	-----

Changes Since Last Permit Issuance: N/A (New Facility).

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.0004
Latitude 40º 21' 28.26" **Longitude** -80º 26' 29.89"

Wastewater Description: Treated Sewage Effluent

Technology-Based Limitations (TBELs)

The following effluent limitations and monitoring requirements, at a minimum, will be established in all new and renewed SRSTP permits based on the requirements of DEP's "Standard Operating Procedure (SOP) for Clean Water Program New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Application" (SOP No. BCW-PMT-003, Version 1.8, Final, November 9, 2012, Revised May 17, 2019).

Parameter	Avg	IMAX	Sample Type	Frequency: SFTFs	Frequency: SRSTPs
Flow (GPD)	Report	XXX	Estimate (SRSTPs) Measured (SFTFs)	1/month	1/year
BOD5 (mg/L)	10	20	Grab	1/month	1/year
TSS (mg/L)	10	20	Grab	1/month	1/year
pH*	6.0 S.U. Inst. Min.	9.0 S.U.	Grab	1/month	1/year
TRC (mg/L)	Report for SRSTPs; Use TRC Spreadsheet to determine WQBELs or 0.02 mg/L for SFTFs		Grab	1/month	1/year
Fecal Coliform (No./100 ml)	200 Geometric Mean (SFTFs) / Average (SRSTPs)		Grab	1/month	1/year

***** Technology-Based effluent limits for pH will be imposed based upon Federal Regulation 133.102(c) and State Regulation 95.2(1).
** Use the Geometric Mean if the Sampling Frequency is at least 1/month. Use Annual Average, Semi-Annual Average or Quarterly Average if the Sampling Frequency is less than 1/month.

Additional Considerations:

After checking on the proposed treatment plant (Premier Tech EC7-500-P-P-PACK) technical specs, this treatment unit can achieve the stringent limits imposed since it is included in the facility's design manual, and it is NSF approved.

Special application for the Dry condition for the proposed treatment system was set in the Engineers Report & Project Narrative document attached to the WQM application.

BOD_5 limitations were imposed instead of $CBOD_5$ which reflect the most stringent limitation amongst the Technology-Based Effluent Limitations and based upon the Department's SOP – New and Reissuance Individual SRSTP NPDES Permits, and per DEP Small Flow Treatment Facilities Manual (Dec. 2006).

Technology-based effluent limits for pH will be imposed based upon State Regulation 95.2(1).

For SFTFs / SRSTPs with UV disinfection systems, it is not necessary to require UV intensity or transmittance monitoring in the permit.

Sewage discharges with design flows < 2,000 gpd do not require monitoring for Total Nitrogen and Total Phosphorus in new and reissued permits.

Sampling frequency for all parameters is 1/year which is consistent with the Department's SOP - New and Reissuance of SFTF Individual NPDES Permit Applications.

The applicant does not use eDMR and current policy does not require eDMR to be used for SRSTPs.

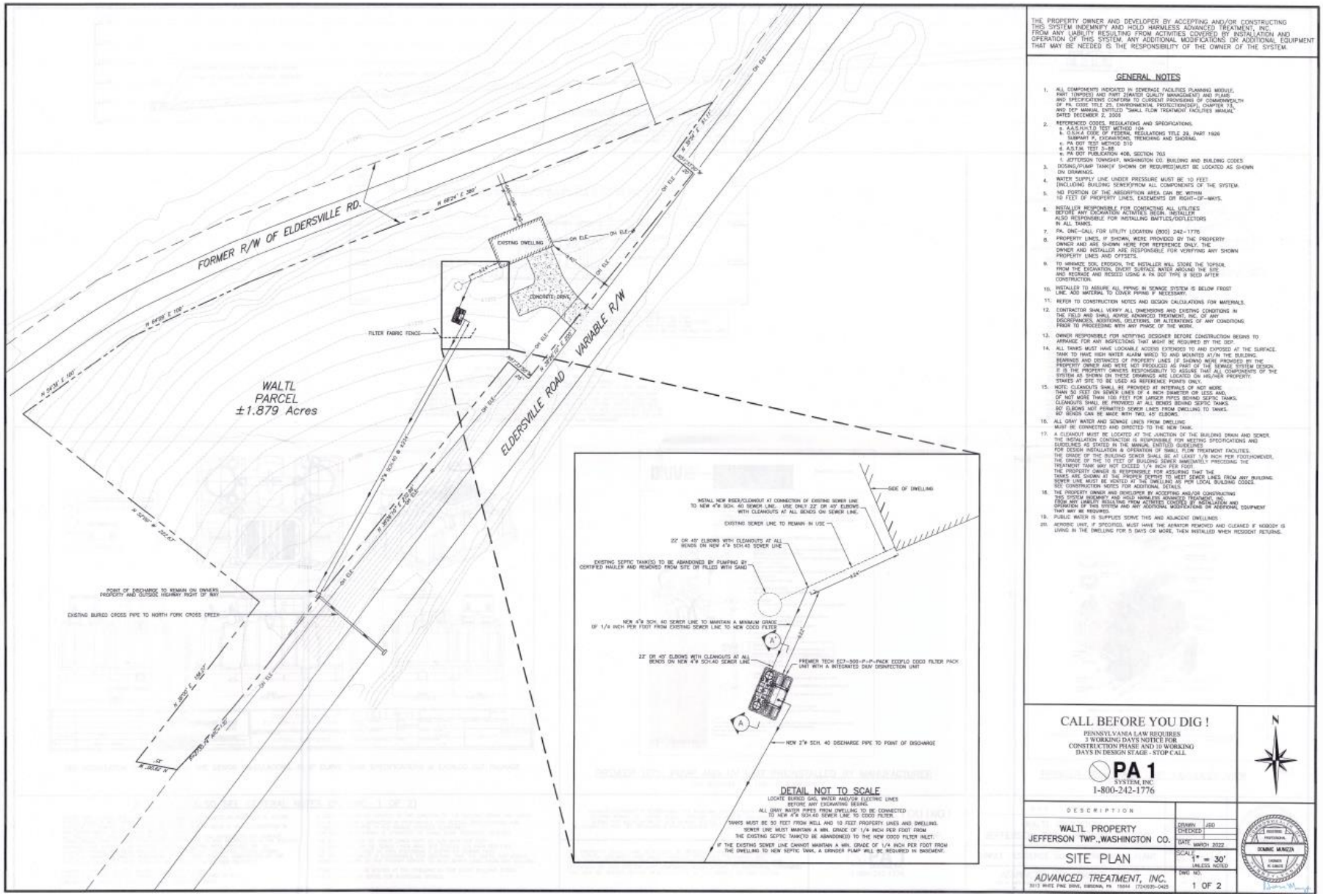
Proposed Effluent Limitations and Monitoring Requirements

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)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Annual Average	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst. Min	XXX	9.0 Inst. Max	XXX	1/year	Grab
BOD5	XXX	XXX	XXX	10	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	10	XXX	20	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001.



THE PROPERTY OWNER AND DEVELOPER BY ACCEPTING AND/OR CONSTRUCTING THIS SYSTEM INDEMNIFY AND HOLD HARMLESS ADVANCED TREATMENT, INC. FROM ANY LIABILITY RESULTING FROM ACTIVITIES COVERED BY INSTALLATION AND OPERATION OF THIS SYSTEM. ANY ADDITIONAL MODIFICATIONS OR ADDITIONAL EQUIPMENT THAT MAY BE NEEDED IS THE RESPONSIBILITY OF THE OWNER OF THE SYSTEM.

GENERAL NOTES

1. ALL COMPONENTS INDICATED IN SEWERAGE FACILITIES PLANNING MODULE, PART 1(WP801) AND PART 2(WATER QUALITY MANAGEMENT) AND PLANS AND SPECIFICATIONS CONFORM TO CURRENT PROVISIONS OF COMMONWEALTH OF PA. CODE TITLE 25, ENVIRONMENTAL PROTECTION(DEP), CHAPTER 73, AND DEP MANUAL ENTITLED "SMALL FLOW TREATMENT FACILITIES MANUAL" DATED DECEMBER 2, 2006
2. REFERENCED CODES, REGULATIONS AND SPECIFICATIONS:
   a. AASHTO T2 TEST METHOD 10A
   b. OSHA CODE OF FEDERAL REGULATIONS TITLE 29, PART 1926 SUBPART P, EXCAVATIONS, TRENCHING AND SHORING.
   c. PA DOT TEST METHOD 510
   d. ASTM, TEST D-88
   e. PA DOT PUBLICATION 408, SECTION 703
   f. JEFFERSON TOWNSHIP, WASHINGTON CO. BUILDING AND BUILDING CODES
3. DOSING/PUMP TANK(S) SHOWN OR REQUIRED MUST BE LOCATED AS SHOWN ON DRAWINGS.
4. WATER SUPPLY LINE UNDER PRESSURE MUST BE 10 FEET (INCLUDING BUILDING SEWER)FROM ALL COMPONENTS OF THE SYSTEM.
5. NO PORTION OF THE ABSORPTION AREA CAN BE WITHIN 10 FEET OF PROPERTY LINES, EASEMENTS OR RIGHT-OF-WAYS.
6. INSTALLER RESPONSIBLE FOR CONTACTING ALL UTILITIES BEFORE ANY EXCAVATION ACTIVITIES BEGIN. INSTALLER ALSO RESPONSIBLE FOR INSTALLING BAFFLES/DEFLECTORS IN ALL TANKS.
7. PA. ONE-CALL FOR UTILITY LOCATION (800) 242-1776
8. PROPERTY LINES, IF SHOWN, WERE PROVIDED BY THE PROPERTY OWNER AND ARE SHOWN HERE FOR REFERENCE ONLY. THE OWNER AND INSTALLER ARE RESPONSIBLE FOR VERIFYING ANY SHOWN PROPERTY LINES AND OFFSETS.
9. TO MINIMIZE SOIL EROSION, THE INSTALLER WILL STORE THE TOPSOIL FROM THE EXCAVATION, DIVERT SURFACE WATER AROUND THE SITE AND REGRADE AND RESEED USING A PA DOT TYPE III SEED AFTER CONSTRUCTION.
10. INSTALLER TO ASSURE ALL PIPING IN SEWAGE SYSTEM IS BELOW FROST LINE. ADD MATERIAL TO COVER PIPING IF NECESSARY.
11. REFER TO CONSTRUCTION NOTES AND DESIGN CALCULATIONS FOR MATERIALS.
12. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD AND SHALL ADVISE ADVANCED TREATMENT, INC. OF ANY DISCREPANCIES, ADDITIONS, DELETIONS, OR ALTERATIONS OF ANY CONDITIONS PRIOR TO PROCEEDING WITH ANY PHASE OF THE WORK.
13. OWNER RESPONSIBLE FOR NOTIFYING DESIGNER BEFORE CONSTRUCTION BEGINS TO ARRANGE FOR ANY INSPECTIONS THAT MIGHT BE REQUIRED BY THE DEP.
14. ALL TANKS MUST HAVE LOCKABLE ACCESS EXTENDED TO AND EXPOSED AT THE SURFACE. TANK TO HAVE HIGH WATER ALARM WIRED TO AND MOUNTED AT/IN THE BUILDING. BEARINGS AND DISTANCES OF PROPERTY LINES (IF SHOWN) WERE PROVIDED BY THE PROPERTY OWNER AND WERE NOT PRODUCED AS PART OF THE SEWAGE SYSTEM DESIGN. IT IS THE PROPERTY OWNERS RESPONSIBILITY TO ASSURE THAT ALL COMPONENTS OF THE SYSTEM AS SHOWN ON THESE DRAWINGS ARE LOCATED ON HIS/HER PROPERTY. STAKES AT SITE TO BE USED AS REFERENCE POINTS ONLY.
15. NOTE: CLEANOUTS SHALL BE PROVIDED AT INTERVALS OF NOT MORE THAN 50 FEET ON SEWER LINES OF 4 INCH DIAMETER OR LESS AND, OF NOT MORE THAN 100 FEET FOR LARGER PIPES BEHIND SEPTIC TANKS. CLEANOUTS SHALL BE PROVIDED AT ALL BENDS BEHIND SEPTIC TANKS. 90° ELBOWS NOT PERMITTED SEWER LINES FROM DWELLING TO TANKS. 90° BENDS CAN BE MADE WITH TWO 45° ELBOWS.
16. ALL GRAY WATER AND SEWAGE LINES FROM DWELLING MUST BE CONNECTED AND DIRECTED TO THE NEW TANK.
17. A CLEANOUT MUST BE LOCATED AT THE JUNCTION OF THE BUILDING DRAIN AND SEWER. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR MEETING SPECIFICATIONS AND GUIDELINES AS STATED IN THE MANUAL ENTITLED GUIDELINES FOR DESIGN INSTALLATION & OPERATION OF SMALL FLOW TREATMENT FACILITIES. THE GRADE OF THE BUILDING SEWER SHALL BE AT LEAST 1/8 INCH PER FOOT.HOWEVER, THE GRADE OF THE 10 FEET OF BUILDING SEWER IMMEDIATELY PROCEEDING THE TREATMENT TANK MAY NOT EXCEED 1/4 INCH PER FOOT. THE PROPERTY OWNER IS RESPONSIBLE FOR ASSURING THAT THE TANKS ARE SHOWN AT THE PROPER DEPTH TO MEET SEWER LINES FROM ANY BUILDING. SEWER LINE MUST BE VENTED AT THE DWELLING AS PER LOCAL BUILDING CODES. SEE CONSTRUCTION NOTES FOR ADDITIONAL DETAILS.
18. THE PROPERTY OWNER AND DEVELOPER BY ACCEPTING AND/OR CONSTRUCTING THIS SYSTEM INDEMNIFY AND HOLD HARMLESS ADVANCED TREATMENT, INC. FROM ANY LIABILITY RESULTING FROM ACTIVITIES COVERED BY INSTALLATION AND OPERATION OF THIS SYSTEM AND ANY ADDITIONAL MODIFICATIONS OR ADDITIONAL EQUIPMENT THAT MAY BE REQUIRED.
19. PUBLIC WATER IS SUPPLIED SOME THIS AND ADJACENT DWELLINGS.
20. AEROBIC UNIT, IF SPECIFIED, MUST HAVE THE AERATOR REMOVED AND CLEANED IF NOBODY IS LIVING IN THE DWELLING FOR 5 DAYS OR MORE, THEN INSTALLED WHEN RESIDENT RETURNS.

CALL BEFORE YOU DIG !
PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP CALL
PA 1 SYSTEM, INC.
1-800-242-1776

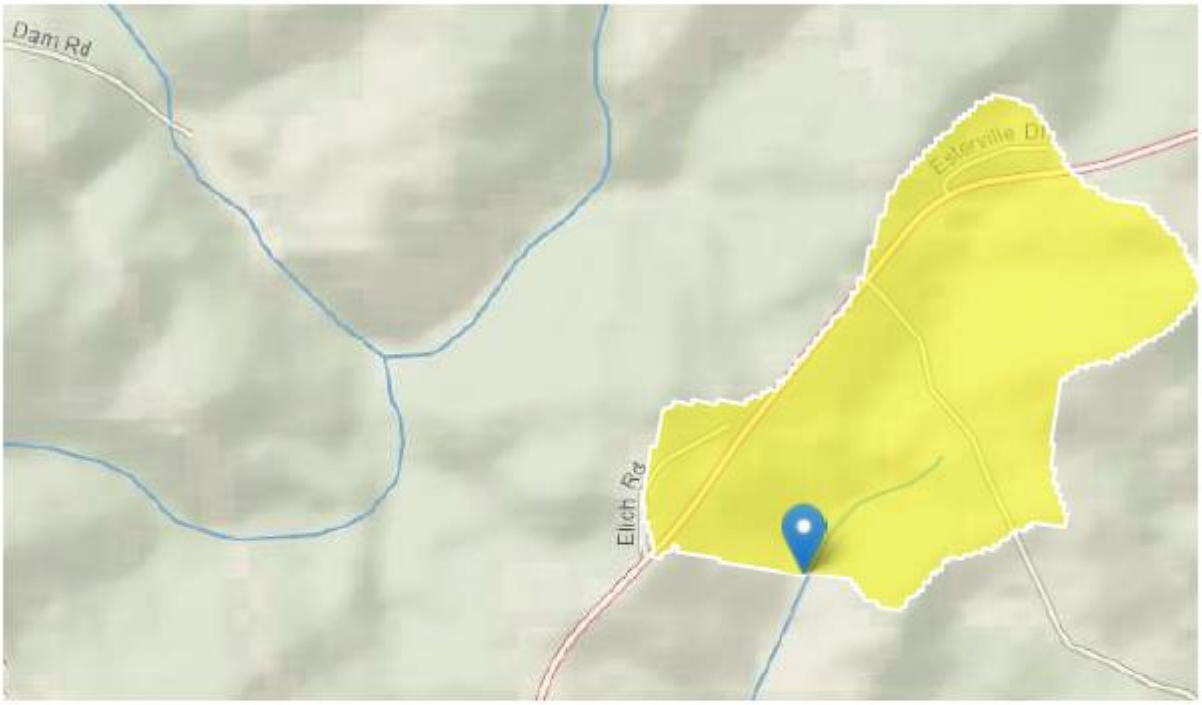
N

DESCRIPTION		
WALTL PROPERTY JEFFERSON TWP.,WASHINGTON CO.	DRAWN CHECKED	JBD
	DATE	MARCH 2022
SITE PLAN	SCALE UNLESS NOTED	1" = 30'
ADVANCED TREATMENT, INC. 3013 WHITE PINE BLVD, BURGETTE, PA 15644 (724)935-0405	DWG NO.	1 OF 2

DOMINIC MUNIZZA

StreamStats Report

Region ID: PA
Workspace ID: PA20220630233926722000
Clicked Point (Latitude, Longitude): 40.35735, -80.44196
Time: 2022-06-30 19:39:46 -0400



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.24	square miles
ELEV	Mean Basin Elevation	1282	feet

Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.24	square miles	2.26	1400
ELEV	Mean Basin Elevation	1282	feet	1050	2580

Low-Flow Statistics Disclaimers [Low Flow Region 4]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Low-Flow Statistics Flow Report [Low Flow Region 4]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.00584	ft^3/s
30 Day 2 Year Low Flow	0.0121	ft^3/s
7 Day 10 Year Low Flow	0.00147	ft^3/s
30 Day 10 Year Low Flow	0.00352	ft^3/s
90 Day 10 Year Low Flow	0.00783	ft^3/s

Low-Flow Statistics Citations

Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (http://pubs.usgs.gov/sir/2006/5130/)