

Southcentral Regional Office CLEAN WATER PROGRAM

Application Type

Facility Type

Major / Minor

Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

 Application No.
 PA0084077

 APS ID
 278106

 Authorization ID
 1473078

		Applicant and Facility Information	
Applicant Name	Snake Spring Townshi Authority Bedford Cou	•	Snake Spring Township STP
Applicant Address	624 Pennknoll Road	Facility Address	624 Pennknoll Road
	Everett, PA 15537-6945		Everett, PA 15537-6945
Applicant Contact	Kristen Statler	Facility Contact	Kristen Statler
Applicant Phone	(814) 623-2627	Facility Phone	(814) 623-2627
Client ID	93166	Site ID	461708
Ch 94 Load Status	Not Overloaded	Municipality	Snake Spring Township
Connection Status	No Limitations	County	Bedford
Date Application Rece	ived February 13, 2	24 EPA Waived?	Yes
Date Application Acce	pted April 6, 2024	If No, Reason	

Approve	Deny	Signatures	Date
Х		Nicholas Hong, P.E. / Environmental Engineer Nick Hong (via electronic signature)	May 8, 2024
х		Daniel W. Martin, P.E. / Environmental Engineer Manager Maria D. Bebenek for	May 21, 2024
х		Maria D. Bebenek, P.E. / Environmental Program Manager Maria D. Bebenek	May 21, 2024

Summary of Review

The application submitted by the applicant requests a NPDES renewal permit for the Snake Spring Township STP located at 624 Pennknoll Road, Everett, PA 15537 in Bedford County, municipality of Snake Spring Township. The existing permit became effective on September 1, 2019 and expires(d) on August 31, 2024. The application for renewal was received by DEP Southcentral Regional Office (SCRO) on February 13, 2024.

The purpose of this Fact Sheet is to present the basis of information used for establishing the proposed NPDES permit effluent limitations. The Fact Sheet includes a description of the facility, a description of the facility's receiving waters, a description of the facility's receiving waters attainment/non-attainment assessment status, and a description of any changes to the proposed monitoring/sampling frequency. Section 6 provides the justification for the proposed NPDES effluent limits derived from technology based effluent limits (TBEL), water quality based effluent limits (WQBEL), total maximum daily loading (TMDL), antidegradation, anti-backsliding, and/or whole effluent toxicity (WET). A brief summary of the outlined descriptions has been included in the Summary of Review section.

The subject facility is a 0.19 MGD annual average design flow treatment facility. The hydraulic design flow rate for the facility is 0.28 MGD. The applicant does not anticipate any proposed upgrades to the treatment facility in the next five years. The NPDES application has been processed as a Minor Sewage Facility (Level 2) due to the type of sewage and the design flow rate for the facility. The applicant disclosed the Act 14 requirement to Bedford County Commissioners and Snake Spring Township Municipal Authority and the notice was received by the parties on July 14, 2023. A planning approval letter was not necessary as the facility is neither new or expanding.

Utilizing the DEP's web-based Emap-PA information system, the receiving waters has been determined to be the Raystown Juniata Branch River. The sequence of receiving streams that the Raystown Juniata Branch River discharges into is the Juniata River which eventually drains into the Chesapeake Bay. The subject site is subject to the Chesapeake Bay implementation requirements. The receiving water has protected water usage for trout stocking fish (TSF) and migratory fishes (MF). No Class A Wild Trout fisheries are impacted by this discharge. The absence of high quality and/or exceptional value surface waters removes the need for an additional evaluation of anti-degradation requirements.

The Raystown Juniata Branch River is a Category 2 stream listed in the 2024 Integrated List of All Waters (formerly 303d Listed Streams). This stream is an attaining stream that supports aquatic life. The receiving waters is not subject to a local total maximum daily load (TMDL) plan to improve water quality in the subject facility's watershed.

The existing permit and proposed permit differ as follows:

- . Monitoring shall be required for lead on a quarterly basis
- Due to the EPA triennial review, monitoring shall be required on a quarterly basis for E. Coli.
- Monitoring frequency for ammonia-nitrogen shall be at least 1x/week

Sludge use and disposal description and location(s): Biosolids/sewage sludge disposed at (a) Sandy Run Landfill, Hopewell Township, Bedford County. Disposed in landfill (b) Carl Egolf Farm, Napier Township in Bedford County as agricultural utilization

The proposed permit will expire five (5) years from the effective date.

Based on the review in this report, it is recommended that the permit be drafted. 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.

Any additional information or public review of documents associated with the discharge or facility may be available at PA DEP Southcentral Regional Office (SCRO), 909 Elmerton Avenue, Harrisburg, PA 17110. To make an appointment for file review, contact the SCRO File Review Coordinator at 717.705.4700.

1.0 Applicant

1.1 General Information

This fact sheet summarizes PA Department of Environmental Protection's review for the NPDES renewal for the following subject facility.

Facility Name: Snake Spring Township Municipal Authority WWTP

NPDES Permit # PA0084077

Physical Address: 624 Pennknoll Road

Everett, PA 15537

Mailing Address: 624 Pennknoll Road

Everett, PA 15537

Contact: Kristen Statler

Office Secretary (814) 623-2627

Sstma15537@outlook.com

Consultant: Amy Sipes

Environmental Scientist

Stiffler, McGraw and Associates, Inc.

1731 North Juniata Street Hollidaysburg, PA 16648 asipes@stiffler-mcgraw.com

1.2 Permit History

Permit submittal included the following information.

- NPDES Application
- Flow Diagrams
- Effluent Sample Data

2.0 Treatment Facility Summary

2.1.1 Site location

The physical address for the facility is 624 Pennknoll Road, Everett, PA 15537. A topographical and an aerial photograph of the facility are depicted as Figure 1 and Figure 2.

Figure 1: Topographical map of the subject facility

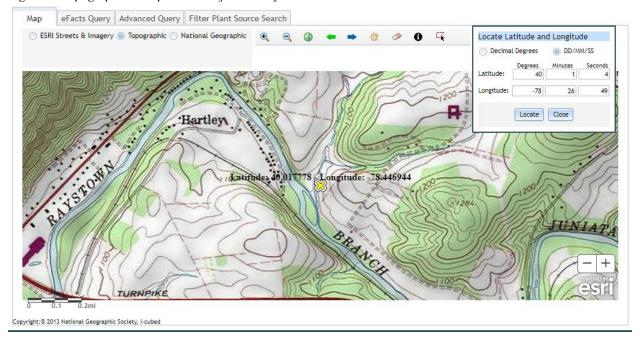
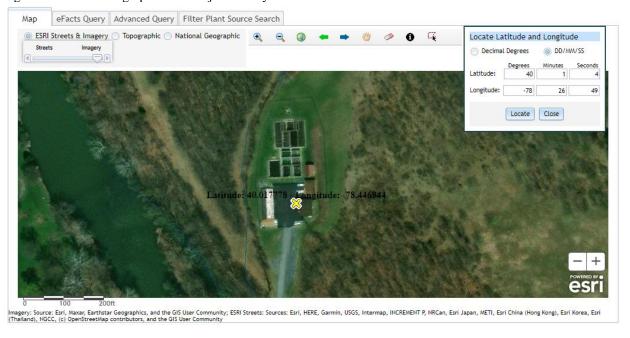


Figure 2: Aerial Photograph of the subject facility



2.1.2 Sources of Wastewater/Stormwater

The wastewater treatment plant receives 100% of their wastewater contributions from Snake Spring Township.

The facility receives industrial/commercial wastewater contributions. The facility reported 81 commercial/industrial users. See attachment for list of users.

The facility did not receive hauled in wastes in the last three years. The facility does not anticipate receiving hauled in wastes in the next five years.

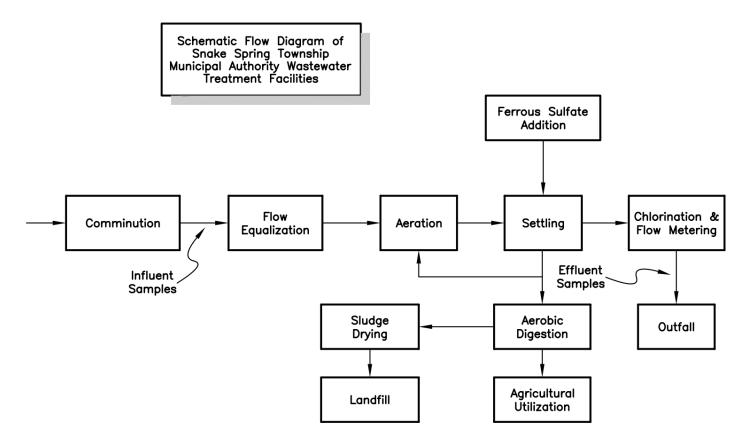
2.2 Description of Wastewater Treatment Process

The subject facility is a 0.19 MGD average annual design flow facility. The subject facility treats wastewater using an equalization tank, an aeration tank(s), two (2) ClarAtor clarifier unit(s), a chlorine contact tank, a sludge digester(s), and a sludge drying bed(s). The facility is being evaluated for flow, pH, dissolved oxygen, TRC, CBOD, TSS, TRC, fecal coliform, nitrogen species, and phosphorus. The existing permits limits for the facility is summarized in Section 2.4.

The treatment process is summarized in the table.

	Tre	eatment Facility Summa	ry	
Treatment Facility Na	me: Snake Spring Townsh	ip STP		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Activated Sludge	Gas Chlorine	0.19
Hydraulic Capacity	Organic Capacity			Biosolids
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposal
0.28	820	Not Overloaded	Combination	Land Application

The treatment process is depicted in the figure.



2.3 Facility Outfall Information

The facility has the following outfall information for wastewater.

Outfall No.	001		Design Flow (MGD)	.19
Latitude	40° 1' 1.00"	,	Longitude	-78° 26' 54.00"
Wastewater D	escription:	Sewage Effluent		

2.3.1 Operational Considerations- Chemical Additives

Chemical additives are chemical products introduced into a waste stream that is used for cleaning, disinfecting, or maintenance and which may be detected in effluent discharged to waters of the Commonwealth. Chemicals excluded are those used for neutralization of waste streams, the production of goods, and treatment of wastewater.

The subject facility utilizes the following chemicals as part of their treatment process.

Ferrous sulfate

2.4 Existing NPDES Permits Limits

The existing NPDES permit limits are summarized in the table.

PART	A - EFFLUENT LIMITA	TIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS
I. A.	For Outfall 001	, Latitude <u>40° 1' 1.00"</u> , Longitude <u>78° 26' 54.00"</u> , River Mile Index <u>86</u> , Stream Code <u>13349</u>
	Receiving Waters:	Raystown Branch Juniata River (TSF, MF)
	Type of Effluent:	Sewage Effluent

^{2.} Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

			Effluent L	imitations			Monitoring Re	quirements
Parameter	Mass Units	(lbs/day) (1)		Concentrat	Minimum (2)	Required		
Parameter	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
Dissolved Oxygen	XXX	XXX	5.0 Inst Min	XXX	XXX	xxx	1/day	Grab
Total Residual Chlorine (TRC)	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	39	63	XXX	25	40	50	1/week	24-Hr Composite
Biochemical Oxygen Demand (BOD5) Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Total Suspended Solids Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	xxx	1/week	24-Hr Composite
Total Suspended Solids	47	71	XXX	30	45	60	1/week	24-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab

^{1.} The permittee is authorized to discharge during the period from September 1, 2019 through August 31, 2024.

Outfall001, Continued (from Permit Effective Date through Permit Expiration Date)

			Effluent L	imitations			Monitoring Re	quirements
Parameter	Mass Units	(lbs/day) (1)		Concentrat	Minimum (2)	Required		
Parameter	Average	Weekly		Average	Weekly	Instant.	Measurement	Sample
	Monthly	Average	Minimum	Monthly	Average	Maximum	Frequency	Type
				Report				24-Hr
Nitrate-Nitrite as N	XXX	XXX	XXX	Annl Avg	XXX	XXX	2/year	Composite
Nitrate-Nitrite as N (Total Load,	Report							
lbs) (lbs)	Annl Avg	XXX	XXX	XXX	XXX	XXX	2/year	Calculation
				Report				
Total Nitrogen	XXX	XXX	XXX	Anni Avg	XXX	XXX	2/year	Calculation
Total Nitrogen (Total Load, Ibs)	Report							
(lbs)	Anni Avg	XXX	XXX	XXX	XXX	XXX	2/year	Calculation
Ammonia-Nitrogen (Total	Report							
Load, lbs) (lbs)	Anni Avg	XXX	XXX	XXX	XXX	XXX	2/year	Calculation
	·			Report				24-Hr
Total Kjeldahl Nitrogen	XXX	XXX	XXX	Anni Avg	XXX	XXX	2/year	Composite
Total Kjeldahl Nitrogen (Total	Report							
Load, lbs) (lbs)	Anni Avg	XXX	XXX	XXX	XXX	XXX	2/year	Calculation
	_							24-Hr
Total Phosphorus	3.17	XXX	XXX	2.0	XXX	4	1/week	Composite
Total Phosphorus (Total Load,	Report							
lbs) (lbs)	Anni Avq	XXX	XXX	XXX	XXX	XXX	2/year	Calculation

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 001

3.0 Facility NPDES Compliance History

3.1 Summary of Inspections

A summary of the most recent inspections during the existing permit review cycle is as follows.

The DEP inspector noted the following during the inspection.

06/25/2020:

• A review of the facility's discharge monitoring reports (DMRs) showed that a No Data Indicator (NODI) code was used in place of a value on the 2019 Annual DMR. Specifically, the NODI code "E" was used to report the average annual loading for ammonia. DEP advised the operator to use the code since the recently renewed NPDES permit did not have a sampling requirement for ammonia concentration. The permit asks for a calculation of the average annual loading for ammonia only. The Department's permitting engineer for this facility was made aware of the issue and recently updated part A of the NDPES permit to include twice yearly sampling and reporting of the ammonia concentration, as well as the loading. A copy of the updated permit will be sent to the township. The electronic DMR should also reflect these changes.

03/10/2021:

On March 9, 2021 Josh Baker, operator at the Snake Spring Township STP, contacted DEP and said that a property owner informed the township of a possible sewer line leak on his property. The property is the Hartley RV campground at 924 Hartley Road, Bedford PA. Josh said he investigated and found a small area of black slimy mud in the grass close to a township sewage pump station. The operator said that the wet well near the leak was pumped down to prevent any further discharge. The location of the leak was between the pump station and the Raystown Branch. The area is also across the river from the township's wastewater treatment plant. There did not appear to be any other breakouts of sewage in the area. Lang septic was onsite earlier in the day and had pumped down the wet well again.

01/12/2022:

• Since last inspection one blower was replaced and a valve in the digester tank was replaced. The operator was looking into a problem with one of the chlorine feed pumps and may replace the unit. The Authority had arranged to replace the back-up generator. The current unit is old, but still operable. It no longer switches on automatically for routine exercising.

On June 7, 2019 the Authority reported a sanitary sewer overflow in a field at a nearby campground. The overflow
was due to a broken pipe. No sewage entered a waterway and the pipe was repaired. A review of paperwork
shows the operator is submitting an older version of the Chesapeake Bay Annual Spreadsheet.

02/17/2023:

There was nothing significant to report.

03/01/2024:

- Since last inspection one valve actuator was replaced, one sludge wasting pump was replaced, and one EQ pump was replaced.
- Both pumps at the Hartley pump station were rebuilt.
- The authority recently switched to CSM Environmental for their wastewater testing. Sludge was last removed from the plant in January 2024

03/28/2024:

• There was nothing significant to report.

3.2 Summary of DMR Data

A review of approximately 1-year of DMR data shows that the monthly average flow data for the facility below the design capacity of the treatment system. The maximum average flow data for the DMR reviewed was 0.068 MGD in January 2024. The design capacity of the treatment system is 0.28 MGD.

The off-site laboratory used for the analysis of the parameters was Pace Analytical located at 2019 9th Avenue, Altoona, PA 16602.

DMR Data for Outfall 001 (from April 1, 2023 to March 31, 2024)

Parameter	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23	OCT-23	SEP-23	AUG-23	JUL-23	JUN-23	MAY-23	APR-23
Flow (MGD)												
Average Monthly	0.066	0.062	0.068	0.052	0.051	0.048	0.050	0.053	0.061	0.052	0.059	0.053
Flow (MGD)												
Daily Maximum	0.127	0.097	0.190	0.099	0.125	0.068	0.090	0.090	0.108	0.085	0.113	0.098
pH (S.U.)												
Instantaneous												
Minimum	7.08	6.95	6.71	7.1	7.06	7.10	7.00	6.99	7.01	7.05	6.89	6.99
pH (S.U.)												
Instantaneous												
Maximum	7.53	8.26	7.65	7.76	7.6	7.54	7.50	7.38	7.53	7.39	7.34	7.24
DO (mg/L)												
Instantaneous												
Minimum	7.01	6.35	6.81	6.71	5.98	5.55	5.11	5.85	5.00	5.02	5.22	5.91
TRC (mg/L)												
Average Monthly	0.37	0.36	0.35	0.37	0.36	0.31	0.23	0.33	0.28	0.35	0.27	0.36
TRC (mg/L)												
Instantaneous												
Maximum	0.68	0.70	0.65	0.65	0.51	0.57	0.52	0.60	0.51	0.59	0.45	0.61
CBOD5 (lbs/day)												
Average Monthly	< 2	< 2	< 2	< 2	< 2	< 1	< 3	< 1	< 2	< 1	< 2	< 2
CBOD5 (lbs/day)												
Weekly Average	< 2	< 2	< 5	< 2	< 3	< 1	< 3	< 2	< 2	< 2	< 2	< 2
CBOD5 (mg/L)												
Average Monthly	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 3	< 3	< 3	< 3	< 3
CBOD5 (mg/L)												
Weekly Average	< 3	3	3	< 3	< 3	< 3	< 2	< 3	< 3	< 3	3	< 3
BOD5 (lbs/day)												
Raw Sewage Influent												
 br/> Average												
Monthly	103	106	129	159	136	122	132	110	166	115	124	133
BOD5 (lbs/day)												
Raw Sewage Influent												
 br/> Daily Maximum	110	137	254	194	209	126	179	127	323	131	154	161
BOD5 (mg/L)												
Raw Sewage Influent												
 br/> Average	4.5.5	000	4.5.5	0.5-	0	0.55	0=-	96.	ac.			255
Monthly	189	202	180	297	240	269	278	231	291	247	244	253
TSS (lbs/day)			_	_		_	_				1	_
Average Monthly	< 2	< 2	< 2	< 1	< 1	< 5	< 4	< 1	< 0.9	< 1	< 1	< 2

_	,	ı	ı	1		1	1	,	1	T	1	1
TSS (lbs/day)												
Raw Sewage Influent												
 Average												
Monthly	34	37	63	39	27	29	29	24	53	22	39	34
TSS (lbs/day)												
Raw Sewage Influent												
 br/> Daily Maximum	39	49	174	44	40	60	35	34	158	36	125	53
TSS (lbs/day)												
Weekly Average	< 2	< 2	< 5	2	3	18	6	2	< 1	2	2	3
TSS (mg/L)												
Average Monthly	< 3	< 3	< 3	< 3	< 2	< 11	< 2	2	< 2	< 2	< 3	< 4
TSS (mg/L)												
Raw Sewage Influent												
 br/> Average												
Monthly	64	70	76	74	48	64	61	49	90	49	64	64
TSS (mg/L)												
Weekly Average	< 3	< 3	4	4	3	37	2	3	< 2	4	3	6
Fecal Coliform			-	-						-		
(No./100 ml)												
Geometric Mean	2	< 1	< 4	< 1	< 4	< 3	< 3	< 2	< 6	< 1	2	5
Fecal Coliform	_					10	10	7 -			_	
(No./100 ml)												
Instantaneous												
Maximum	10	1	48	2	167	17.3	10.9	4.1	35.9	1	7.4	10.9
Nitrate-Nitrite (mg/L)	10		10		107	17.0	10.0		00.0		1	10.0
Annual Average				< 20.215								
Nitrate-Nitrite (lbs)				V 20.210								
Annual Average				< 10.9								
Total Nitrogen (mg/L)				V 10.5								
Annual Average				< 21.053								
Total Nitrogen (lbs)				< 21.000								
Annual Average				< 11.5								
Ammonia (mg/L)				V 11.5								
Annual Average				< 0.276								
Ammonia (lbs)	1			< 0.270				1			+	
Annual Average				< 0.200								
TKN (mg/L)	-			< 0.200				-				
				< 0.84								
Annual Average	 			< ∪.04				 			 	
TKN (lbs)				.05								
Annual Average	1			< 0.5				1				
Total Phosphorus												
(lbs/day)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.400	0.00-	0.000
Average Monthly	0.200	0.300	0.300	0.200	0.200	0.200	0.300	0.500	0.300	0.400	0.627	0.300

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Total Phosphorus (mg/L)												
Average Monthly	0.380	0.490	0.340	0.413	0.401	0.514	0.582	1.005	0.618	0.876	0.300	0.573
Total Phosphorus (lbs)												
Annual Average				0.300								

3.3 Non-Compliance

3.3.1 Non-Compliance- NPDES Effluent

A summary of the non-compliance to the permit limits for the existing permit cycle is as follows.

From the DMR data beginning in September 1, 2019 to May 6, 2024, the following were observed effluent non-compliances.

					Summary of Non-Comp	iance w/ NPDES	Permit Limits	
					Beginning September 1	, 2019 and Endin	g May 6, 2024	
NON_COMPL_CATE GORY_DESC	PARAMETER	SAMPLE_V ALUE	VIOLATION_ CONDITION	_	UNIT_OF_MEASURE	STAT_BASE_CO DE	DISCHARGE_COMMENTS	FACILITY_COMMENTS
Effluent	Total Suspended Solids	46	>	45	mg/L	Weekly Average		
Effluent	Fecal Coliform	2419.8	>	1000	No./100 ml	Instantaneous Maximum		Flows were extremely elevated during Hurricane Ida. We have never had issue with fecal counts otherwise. Flows returned to normal as well as the sample results.
Effluent	Fecal Coliform	11199	>	10000	No./100 ml	Instantaneous Maximum		
Unauthorized Discharges							Bedford County VoTech school notified Josh Baker there was sewage on the ground. After inspection it was determined that the property had a broken/seperated pipe connected to an outbuildings grinder pump resulting in an approx 8ft area of spilled sewage. Josh advised discontinued use of outbuilding sewer system. Josh then returned to the property and applied lime to the affected area.	

3.3.2 Non-Compliance- Enforcement Actions

A summary of the non-compliance enforcement actions for the current permit cycle is as follows:

Beginning in September 1, 2018 and Ending May 6, 2024, the following were observed enforcement actions.

Summary of Enforcement Actions Beginning September 1, 2018 and Ending May 6, 2024

			ENF CREATION				ENF CLOSED
ENF ID	ENF TYPE	ENF TYPE DESC	DATE	EXECUTED DATE	VIOLATIONS	ENF FINALSTATUS	DATE
<u>389899</u>	NOV	Notice of Violation	11/06/2020	11/03/2020	92A.62	Comply/Closed	11/30/2020
379477	NOV	Notice of Violation	10/08/2019	10/08/2019	302.202		

3.4 Summary of Biosolids Disposal

A summary of the biosolids disposed of from the facility is as follows.

			202	23		
		Sewage Slud	lge / Biosolids	Production Informat	ion	
			Hauled C	Off-Site		
Lic	quid Sewage S	Sludge/Biosoli	ds	Dewatered	Sewage Sludge,	/Biosolids
Date (YEAR)	Gallons	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons
January						
February						
March						
April	144,000	1.66	9.725			
May						
June				2.46	88.4	2.17
July						
August				3.06	84.6	2.59
September						
October				4.37	70.8	3.09
November						
December						
Notes:						
Biosolids/sewa	age sludge dis	sposed at (a) Sa	andy Run Land	fill, Hopewell Towns	hip, Bedford Co	unty. Disposed

Biosolids/sewage sludge disposed at (a) Sandy Run Landfill, Hopewell Township, Bedford County. Disposed in landfill (b) Carl Egolf Farm, Napier Township in Bedford County as agricultural utilization

3.5 Open Violations

No open violations existed as of May 2024.

4.0 Receiving Waters and Water Supply Information Detail Summary

4.1 Receiving Waters

The receiving waters has been determined to be the Raystown Juniata Branch River. The sequence of receiving streams that the Raystown Juniata Branch River discharges into is the Juniata River which eventually drains into the Chesapeake Bay.

4.2 Public Water Supply (PWS) Intake

The closest PWS to the subject facility is Saxton Municipal Water Authority (PWS ID # 4050021) located approximately 47 miles downstream of the subject facility on the Juniata River. Based upon the distance and the flow rate of the facility, the PWS should not be impacted.

4.3 Class A Wild Trout Streams

Class A Wild Trout Streams are waters that support a population of naturally produced trout of sufficient size and abundance to support long-term and rewarding sport fishery. DEP classifies these waters as high-quality coldwater fisheries.

The information obtained from EMAP suggests that no Class A Wild Trout Fishery will be impacted by this discharge.

4.4 2024 Integrated List of All Waters (303d Listed Streams)

Section 303(d) of the Clean Water Act requires States to list all impaired surface waters not supporting uses even after appropriate and required water pollution control technologies have been applied. The 303(d) list includes the reason for impairment which may be one or more point sources (i.e. industrial or sewage discharges) or non-point sources (i.e. abandoned mine lands or agricultural runoff and the pollutant causing the impairment such as metals, pH, mercury or siltation).

States or the U.S. Environmental Protection Agency (EPA) must determine the conditions that would return the water to a condition that meets water quality standards. As a follow-up to listing, the state or EPA must develop a Total Maximum Daily Load (TMDL) for each waterbody on the list. A TMDL identifies allowable pollutant loads to a waterbody from both point and non-point sources that will prevent a violation of water quality standards. A TMDL also includes a margin of safety to ensure protection of the water.

The water quality status of Pennsylvania's waters uses a five-part categorization (lists) of waters per their attainment use status. The categories represent varying levels of attainment, ranging from Category 1, where all designated water uses are met to Category 5 where impairment by pollutants requires a TMDL for water quality protection.

The receiving waters is listed in the 2024 Pennsylvania Integrated Water Quality Monitoring and Assessment Report as a Category 2 waterbody. The surface waters is an attaining stream that supports aquatic life. The designated use has been classified as protected waters for trout stocking fishes (TSF) and migratory fishes (MF).

4.5 Low Flow Stream Conditions

Water quality modeling estimates are based upon conservative data inputs. The data are typically estimated using either a stream gauge or through USGS web based StreamStats program. The NPDES effluent limits are based upon the combined flows from both the stream and the facility discharge.

A conservative approach to estimate the impact of the facility discharge using values which minimize the total combined volume of the stream and the facility discharge. The volumetric flow rate for the stream is based upon the seven-day, 10-year low flow (Q710) which is the lowest estimated flow rate of the stream during a 7 consecutive day period that occurs once in 10 -year time period. The facility discharge is based upon a known design capacity of the subject facility.

The closest WQN station to the subject facility is the Raystown Branch Juniata (WQN223). This WQN station is located approximately 48 miles downstream of the subject facility.

The closest gauge station to the subject facility is the Raystown Branch Juniata River at Saxton, PA (USGS station number 1562000). This gauge station is located approximately 48 miles downstream of the subject facility.

For WQM modeling, pH and stream water temperature data from the water quality network station was used. pH was estimated to be 8.0 and the stream water temperature was estimated to be 23.3 C.

The hardness of the stream was estimated from the water quality network to be 96 mg/l CaCO₃.

The low flow yield and the Q710 for the subject facility was estimated as shown below.

	Gauge Station Data		
USGS Station Number			
Station Name	Raystown Branch Juniata Ri	ver at Saxton, PA	
Q710	67.1	ft ³ /sec	
Drainage Area (DA)	756	mi ²	
Calculations			
The low flow yield of th	ne gauge station is:		
Low Flow Yield (LFY) = 0			
LFY =	(67.1 ft³/sec / 756 mi²)		
LFY =	0.0888	ft ³ /sec/mi ²	
The low flow at the sub	ject site is based upon the DA of	366	mi ²
Q710 = (LFY@gauge stat			
$Q710 = (0.0888 \text{ ft}^3/\text{sec/r})$			
Q710 =	32.485	ft³/sec	

.6 Summary of Disc	charge, Receiving Waters and	Water Supply Information			
Outfall No. 001		Design Flow (MGD)	.19		
Latitude 40°	1' 1.97"	Longitude	-78º 26' 52.01"		
Quad Name		Quad Code			
Wastewater Descr	iption: Sewage Effluent				
	Raystown Branch Juniata Rive	er			
Receiving Waters	(TŚF, MF)	Stream Code	13349		
NHD Com ID	65847495	RMI	88.6		
Drainage Area	366	Yield (cfs/mi²)	0.0888		
Q ₇₋₁₀ Flow (cfs)	32.485	Q ₇₋₁₀ Basis	Streamstats/streamgauge		
Elevation (ft)	312	Slope (ft/ft)			
Watershed No.	11-C	Chapter 93 Class.	TSF, MF		
Existing Use		Existing Use Qualifier			
Exceptions to Use		Exceptions to Criteria			
Assessment Status	s Attaining Use(s) suppo	rts aquatic life			
Cause(s) of Impair	ment Not appl.				
Source(s) of Impai	rment Not appl.				
TMDL Status	Not appl.	Name			
Background/Ambie	ent Data	Data Source			
pH (SU)	8.00	WQN223; Median July to Oct			
Temperature (°C)	23.3	WQN223; Median July to Oct			
Hardness (mg/L)	96	WQN; historical median			
Other:					
Nearest Downstrea	am Public Water Supply Intake	Saxton Municipal Water Autho	ority		
	Juniata River	Flow at Intake (cfs)	oing .		
-	41	Distance from Outfall (mi)	48		
		Sistance nom Sadaii (m)			

5.0: Overview of Presiding Water Quality Standards

5.1 General

There are at least six (6) different policies which determines the effluent performance limits for the NPDES permit. The policies are technology based effluent limits (TBEL), water quality based effluent limits (WQBEL), antidegradation, total maximum daily loading (TMDL), anti-backsliding, and whole effluent toxicity (WET) The effluent performance limitations enforced are the selected permit limits that is most protective to the designated use of the receiving waters. An overview of each of the policies that are applicable to the subject facility has been presented in Section 6.

5.2.1 Technology-Based Limitations

TBEL treatment requirements under section 301(b) of the Act represent the minimum level of control that must be imposed in a permit issued under section 402 of the Act (40 CFR 125.3). Available TBEL requirements for the state of Pennsylvania are itemized in PA Code 25, Chapter 92a.47.

The presiding sources for the basis for the effluent limitations are governed by either federal or state regulation. The reference sources for each of the parameters is itemized in the tables. The following technology-based limitations apply, subject to water quality analysis and best professional judgement (BPJ) where applicable:

Parameter	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD₅	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
CBOD5	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Solids	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pН	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform				
(5/1 - 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform				
(5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform				
(10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform				
(10/1 - 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

5.2.2 Mass Based Limits

For publicly owned treatment works (POTW), mass loadings are calculated based upon design flow rate of the facility and the permit limit concentration. The generalized calculation for mass loadings is shown below:

Quantity
$$\left(\frac{lb}{day}\right) = (MGD)(Concentration)(8.34)$$

5.3 Water Quality-Based Limitations

WQBEL are based on the need to attain or maintain the water quality criteria and to assure protection of designated and existing uses (PA Code 25, Chapter 92a.2). The subject facility that is typically enforced is the more stringent limit of either the TBEL or the WQBEL.

Determination of WQBEL is calculated by spreadsheet analysis or by a computer modeling program developed by DEP. DEP permit engineers utilize the following computing programs for WQBEL permit limitations: (1) MS Excel worksheet for Total Residual Chorine (TRC); (2) WQM 7.0 for Windows Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen Version 1.1 (WQM Model) and (3) Toxics using DEP Toxics Management Spreadsheet for Toxics pollutants.

The modeling point nodes utilized for this facility are summarized below.

General Data 1	(Modeling Point #1)	(Modeling Point #2)	Units
Stream Code	13349	13349	
River Mile Index	88.6	86.68	miles
Elevation	312	309	feet
Latitude	40.017778	40.014656	
Longitude	-78.446944	-78.425594	
Drainage Area	366	367	sq miles
Low Flow Yield	0.0888	0.0888	cfs/sq mile

5.3.1 Water Quality Modeling 7.0

The WQM Model is a computer model that is used to determine NPDES discharge effluent limitations for Carbonaceous BOD (CBOD5), Ammonia Nitrogen (NH3-N), and Dissolved Oxygen (DO) for single and multiple point source discharges scenarios. WQM Model is a complete-mix model which means that the discharge flow and the stream flow are assumed to instantly and completely mixed at the discharge node.

WQM recommends effluent limits for DO, CBOD5, and NH₃-N in mg/l for the discharge(s) in the simulation.

Four types of limits may be recommended. The limits are

- (a) a minimum concentration for DO in the discharge as 30-day average;
- (b) a 30-day average concentration for CBOD5 in the discharge;
- (c) a 30-day average concentration for the NH₃-N in the discharge;
- (d) 24-hour average concentration for NH₃-N in the discharge.

The WQM Model requires several input values for calculating output values. The source of data originates from either EMAP, the National Map, or Stream Stats. Data for stream gauge information, if any, was abstracted from USGS Low-Flow, Base-Flow, and Mean-Flow Regression Equations for Pennsylvania Streams authored by Marla H. Stuckey (Scientific Investigations Report 2006-5130).

The applicable WQM Effluent Limit Type are discussed in Section 6 under the corresponding parameter which is either DO, CBOD, or ammonia-nitrogen.

5.3.2 Toxics Modeling

The Toxics Management Spreadsheet model is a computer model that is used to determine effluent limitations for toxics (and other substances) for single discharge wasteload allocations. This computer model uses a mass-balance water quality analysis that includes consideration for mixing, first-order decay, and other factors used to determine recommended water quality-based effluent limits. Toxics Management Spreadsheet does not assume that all discharges completely mix with the stream. The point of compliance with water quality criteria are established using criteria compliance times (CCTs). The available CCTs are either acute fish criterion (AFC), chronic fish criterion (CFC), or human health criteria (THH & CRL).

Acute Fish Criterion (AFC) measures the criteria compliance time as either the maximum criteria compliance time (i.e.15 minutes travel time downstream of the current discharge) or the complete mix time whichever comes first. AFC is evaluated at Q710 conditions.

Chronic Fish Criterion (CFC) measures the criteria compliance time as either the maximum criteria compliance time (i.e. 12 hours travel time downstream of the current discharge) or the complete mix time whichever comes first. CFC is evaluated at Q710 conditions.

Threshold Human Health (THH) measures the criteria compliance time as either the maximum criteria compliance time (i.e. 12 hours travel time downstream of the current discharge) or the estimated travel time downstream to the nearest potable water supply intake whichever comes first. THH is evaluated at Q710 conditions.

Cancer Risk Level (CRL) measures the criteria compliance time as either the maximum criteria compliance time (i.e. 12 hours travel time downstream of the current discharge) or the complete mix time whichever comes first. CRL is evaluated at Qh (harmonic mean or normal flow) conditions.

The Toxics Model requires several input values for calculating output values. The source of data originates from either EMAP, the National Map, or Stream Stats. Data for stream gauge information, if any, was abstracted from USGS Low-Flow, Base-Flow, and Mean-Flow Regression Equations for Pennsylvania Streams authored by Marla H. Stuckey (Scientific Investigations Report 2006-5130).

5.3.2.1 Determining if NPDES Permit Will Require Monitoring/Limits in the Proposed Permit for Toxic Pollutants

To determine if Toxics modeling is necessary, DEP has developed a Toxics Management Spreadsheet to identify toxics of concern. Toxic pollutants whose maximum concentrations as reported in the permit application or on DMRs are greater than the most stringent applicable water quality criterion are pollutants of concern. A Reasonable Potential Analysis was utilized to determine (a) if the toxic parameters modeled would require monitoring or (b) if permit limitations would be required for the parameters. The toxics reviewed for reasonable potential were the pollutants in TDS, chloride, bromide, sulfate, total copper, total lead, and total zinc.

Based upon the SOP- Establishing Water Quality-Based Effluent Limitations (WQBELs) and Permit Conditions for Toxic Pollutants (Revised January 10, 2019), monitoring and/or limits will be established as follows.

- (a) When reasonable potential is demonstrated, establish limits where the maximum reported concentration equals or exceeds 50% of the WQBEL.
- (b) For non-conservative pollutants, establish monitoring requirements where the maximum reported concentration is between 25% 50% of the WQBEL.
- (c) For conservative pollutants, establish monitoring requirements where the maximum reported concentration is between 10% 50% of the WQBEL.

Applicable monitoring or permit limits for toxics are summarized in Section 6.

The Toxics Management Spreadsheet output has been included in Attachment B.

5.3.3 Whole Effluent Toxicity (WET)

The facility is not subject to WET.

5.4 Total Maximum Daily Loading (TMDL)

5.4.1 TMDL

The goal of the Clean Water Act (CWA), which governs water pollution, is to ensure that all of the Nation's waters are clean and healthy enough to support aquatic life and recreation. To achieve this goal, the CWA created programs designed to regulate and reduce the amount of pollution entering United States waters. Section 303(d) of the CWA requires states to assess their waterbodies to identify those not meeting water quality standards. If a waterbody is not meeting standards, it is listed as impaired and reported to the U.S. Environmental Protection Agency. The state then develops a plan to clean up the impaired waterbody. This plan includes the development of a Total Maximum Daily Load (TMDL) for the pollutant(s) that were found to be the cause of the water quality violations. A Total Maximum Daily Load (TMDL) calculates the maximum amount of a specific pollutant that a waterbody can receive and still meet water quality standards.

A TMDL for a given pollutant and waterbody is composed of the sum of individual wasteload allocations (WLAs) for point sources and load allocations (LAs) for nonpoint sources and natural background levels. In addition, the TMDL must include an implicit or explicit margin of safety (MOS) to account for the uncertainty in the relationship between pollutant loads and the quality of the receiving waterbody. The TMDL components are illustrated using the following equation:

TMDL =
$$\Sigma WLAs + \Sigma LAs + MOS$$

Pennsylvania has committed to restoring all impaired waters by developing TMDLs and TMDL alternatives for all impaired waterbodies. The TMDL serves as the starting point or planning tool for restoring water quality.

5.4.1.1 Local TMDL

The subject facility does not discharge into a local TMDL.

5.4.1.2 Chesapeake Bay TMDL Requirement

The Chesapeake Bay Watershed is a large ecosystem that encompasses approximately 64,000 square miles in Maryland, Delaware, Virginia, West Virginia, Pennsylvania, New York and the District of Columbia. An ecosystem is composed of interrelated parts that interact with each other to form a whole. All of the plants and animals in an ecosystem depend on each other in some way. Every living thing needs a healthy ecosystem to survive. Human activities affect the Chesapeake Bay ecosystem by adding pollution, using resources and changing the character of the land.

Most of the Chesapeake Bay and many of its tidal tributaries have been listed as impaired under Section 303(d) of the federal Water Pollution Control Act ("Clean Water Act"), 33 U.S.C. § 1313(d). While the Chesapeake Bay is outside the boundaries of Pennsylvania, more than half of the State lies within the watershed. Two major rivers in Pennsylvania are part of the Chesapeake Bay Watershed. They are (a) the Susquehanna River and (b) the Potomac River. These two rivers total 40 percent of the entire Chesapeake Bay watershed.

The overall management approach needed for reducing nitrogen, phosphorus and sediment are provided in the Bay TMDL document and the Phase I, II, and III WIPs which is described in the Bay TMDL document and Executive Order 13508.

The Bay TMDL is a comprehensive pollution reduction effort in the Chesapeake Bay watershed identifying the necessary pollution reductions of nitrogen, phosphorus and sediment across the seven Bay watershed jurisdictions of Delaware, Maryland, New York, Pennsylvania, Virginia, West Virginia and the District of Columbia to meet applicable water quality standards in the Bay and its tidal waters.

The Watershed Implementation Plans (WIPs) provides objectives for how the jurisdictions in partnership with federal and local governments will achieve the Bay TMDL's nutrient and sediment allocations.

Phase 3 WIP provides an update on Chesapeake Bay TMDL implementation activities for point sources and DEP's current implementation strategy for wastewater. The latest revision of the supplement was September 13, 2021.

The Chesapeake Bay TMDL (Appendix Q) categorizes point sources into four sectors:

- Sector A- significant sewage dischargers;
- Sector B- significant industrial waste (IW) dischargers;
- Sector C- non-significant dischargers (both sewage and IW facilities); and
- Sector D- combined sewer overflows (CSOs).

All sectors contain a listing of individual facilities with NPDES permits that were believed to be discharging at the time the TMDL was published (2010). All sectors with the exception of the non-significant dischargers have individual wasteload allocations (WLAs) for TN and TP assigned to specific facilities. Non-significant dischargers have a bulk or aggregate allocation for TN and TP based on the facilities in that sector that were believed to be discharging at that time and their estimated nutrient loads.

Cap Loads will be established in permits as Net Annual TN and TP loads (lbs/yr) that apply during the period of October 1 – September 30. For facilities that have received Cap Loads in any other form, the Cap Loads will be modified accordingly when the permits are renewed.

Offsets have been incorporated into Cap Loads in several permits issued to date. From this point forward, permits will be issued with the WLAs as Cap Loads and will identify Offsets separately to facilitate nutrient trading activities and compliance with the TMDL.

Based upon the supplement the subject facility has been categorized as a Sector C discharger. The supplement defines Sector C as a non-significant dischargers include sewage facilities (Phase 4 facilities: ≥ 0.2 MGD and < 0.4 MGD and Phase 5 facilities: > 0.002 MGD and < 0.2 MGD), small flow/single residence sewage treatment facilities (≤ 0.002 MGD), and non-significant IW facilities, all of which may be covered by statewide General Permits or may have individual NPDES permits.

At this time, there are approximately 850 Phase 4 and 5 sewage facilities, approximately 715 small flow sewage treatment facilities covered by a statewide General Permit, and approximately 300 non-significant IW facilities.

For Phase 5 sewage facilities with individual permits (average annual design flow on August 29, 2005 > 0.002 MGD and < 0.2 MGD), DEP will issue individual permits with monitoring and reporting for TN and TP throughout the permit term at a frequency no less than annually, unless 1) the facility has already conducted at least two years of nutrient monitoring and 2) a summary of the monitoring results are included in the next permit's fact sheet. If, however, Phase 5 facilities choose to expand, the renewed or amended permits will contain Cap Loads based on the lesser of a) existing TN/TP concentrations at current design average annual flow or b) 7,306 lbs/yr TN and 974 lbs/yr TP.

If no data are available to determine existing concentrations for expanding Phase 4 or 5 facilities, default concentrations of 25 mg/l TN and 4 mg/l TP may be used (these are the average estimated concentrations of all non-significant sewage facilities).

DEP will not issue permits to existing Phase 4 and 5 facilities containing Cap Loads unless it is done on a broad scale or unless the facilities are expanding.

For new Phase 4 and 5 sewage discharges, in general DEP will issue new permits containing Cap Loads of "0" and new facilities will be expected to purchase credits and/or apply offsets to achieve compliance, with the exception of small flow and single residence facilities.

Due to the Chesapeake Bay WIP, this facility is subject to Sector C monitoring requirements. Monitoring for nitrogen species and phosphorus shall be 2x/yr.

5.5 Anti-Degradation Requirement

Chapter 93.4a of the PA regulations requires that surface water of the Commonwealth of Pennsylvania may not be degraded below levels that protect the existing uses. The regulations specifically state that *Existing instream water uses and the level of water quality necessary to protect the existing uses shall be maintained and protected.* Antidegradation requirements are implemented through DEP's guidance manual entitled Water Quality Antidegradation Implementation Guidance (Document #391-0300-02).

The policy requires DEP to protect the existing uses of all surface waters and the existing quality of High Quality (HQ) and Exceptional Value (EV) Waters. Existing uses are protected when DEP makes a final decision on any permit or approval for an activity that may affect a protected use. Existing uses are protected based upon DEP's evaluation of the best available information (which satisfies DEP protocols and Quality Assurance/Quality Control (QA/QC) procedures) that indicates the protected use of the waterbody.

For a new, additional, or increased point source discharge to an HQ or EV water, the person proposing the discharge is required to utilize a nondischarge alternative that is cost-effective and environmentally sound when compared with the cost of the proposed discharge. If a nondischarge alternative is not cost-effective and environmentally sound, the person must use the best available combination of treatment, pollution prevention, and wastewater reuse technologies and assure that any discharge is nondegrading. In the case of HQ waters, DEP may find that after satisfaction of intergovernmental coordination and public participation requirements lower water quality is necessary to accommodate important economic or social development in the area in which the waters are located. In addition, DEP will assure that cost-effective and reasonable best management practices for nonpoint source control in HQ and EV waters are achieved.

The subject facility's discharge will be to a non-special protection waters and the permit conditions are imposed to protect existing instream water quality and uses. Neither HQ waters or EV waters is impacted by this discharge.

5.6 Anti-Backsliding

Anti-backsliding is a federal regulation which prohibits a permit from being renewed, reissued, or modified containing effluent limitations which are less stringent than the comparable effluent limitations in the previous permit (40 CFR 122.I.1 and 40 CFR 122.I.2). A review of the existing permit limitations with the proposed permit limitations confirm that the facility is consistent with anti-backsliding requirements. The facility has proposed effluent limitations that are as stringent as the existing permit.

6.0 NPDES Parameter Details

The basis for the proposed sampling and their monitoring frequency that will appear in the permit for each individual parameter are itemized in this Section. The final limits are the more stringent of technology based effluent treatment (TBEL) requirements, water quality based (WQBEL) limits, TMDL, antidegradation, anti-degradation, or WET.

The reader will find in this section:

- a) a justification of recommended permit monitoring requirements and limitations for each parameter in the proposed NPDES permit;
- b) a summary of changes from the existing NPDES permit to the proposed permit; and
- c) a summary of the proposed NPDES effluent limits.

6.1 Recommended Monitoring Requirements and Effluent Limitations

A summary of the recommended monitoring requirements and effluent limitations are itemized in the tables. The tables are categorized by (a) Conventional Pollutants and Disinfection, (b) Nitrogen Species and Phosphorus, (c) Toxics, and (d) Non-Conventional Pollutants, and (e) Chapter 92a.61 targeted parameters

6.1.1 Conventional Pollutants and Disinfection

			PDES Parameter Details for Conventional Pollutants and Disinfection Snake Spring Township STP; PA0084077
Parameter	Permit Limitation Required by ¹ :		Recommendation
	required by .	Monitoring:	The monitoring frequency shall be daily as a grab sample (Table 6-3).
nH (S II)	TBEL	Effluent Limit:	Effluent limits may range from pH = 6.0 to 9.0
pH (S.U.)	IDEL	Rationale:	The monitoring frequency has been assigned in accordance with Table 6-3 and the effluent limit assigned by Chapter 95.2(1).
		Monitoring:	The monitoring frequency shall be daily as a grab sample (Table 6-3).
Dissolved	BPJ	Effluent Limit:	Effluent limits shall be greater than 5.0 mg/l.
Oxygen	DFJ	Rationale:	The monitoring frequency has been assigned in accordance with Table 6-3 and the effluent limit assigned by best professional judgement.
		Monitoring:	The monitoring frequency shall be 1x/week as an 24-hr composite sample (Table 6-3).
		Effluent Limit:	Effluent limits shall not exceed 39 lbs/day and 25 mg/l as an average monthly.
CBOD	TBEL	Rationale:	The monitoring frequency has been assigned in accordance with Table 6-3 and the effluent limit assigned by Chapter 92a.47(a)(1). WQM modeling indicates that the TBEL is more stringent that the WQBEL. Thus, the permit limit is confined to TBEL.
		Monitoring:	The monitoring frequency shall be 1/week as a 24-hr composite sample (Table 6-3).
	TBEL	Effluent Limit:	Effluent limits shall not exceed 47 lbs/day and 30 mg/l as an average monthly.
TSS		Rationale:	The monitoring frequency has been assigned in accordance with Table 6-3 and the effluent limit assigned by Chapter 92a.47(a)(1). While there is no WQM modeling for this parameter, the permit limit for TSS is generally assigned similar effluent limits as CBOD or BOD.
		Monitoring:	The monitoring frequency shall be on a daily basis as a grab sample (Table 6-3).
		Effluent Limit:	The average monthly limit should not exceed 0.5 mg/l and/or 1.6 mg/l as an instantaneous maximum.
TRC	TBEL	forms of aqua imposed on a expressed in t (Implementation Based on the calculated by	orine in both combined (chloramine) and free form is extremely toxic to freshwater fish and other tic life (Implementation Guidance Total Residual Chlorine 1). The TRC effluent limitations to be discharger shall be the more stringent of either the WQBEL or TBEL requirements and shall be the NPDES permit as an average monthly and instantaneous maximum effluent concentration on Guidance Total Residual Chlorine 4). Stream flow rate (lowest 7-day flow rate in 10 years) and the design flow rate of the subject facilit the TRC Evaluation worksheet, the TBEL is more stringent than the WQBEL. If the grequency has been assigned in accordance with Table 6-3 and the effluent limits assigned by 18(b)(2)
Fecal Coliform		Monitoring:	The monitoring frequency shall be 1x/week as a grab sample (Table 6-3).
	TBEL	Effluent Limit:	Summer effluent limits shall not exceed 200 No./100 mL as a geometric mean. Winter effluent limits shall not exceed 2000 No./100 mL as a geometric mean.
3031111			The monitoring frequency has been assigned in accordance with Table 6-3 and the effluent limit

¹ The NPDES permit was limited by (a) anti-Backsliding, (b) Anti-Degradation, (c) SOP, (d) TBEL, (e) TMDL, (f) WQBEL, (g) WET, or (h) Other

² Monitoring frequency based on flow rate of 0.19 MGD.

³ Table 6-3 (Self Monitoring Requirements for Sewage Discharges) in Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits) (Document # 362-0400-001) Revised 10/97

⁴ Water Quality Antidegradation Implementaton Guidance (Document # 391-0300-002)

⁵ Chesapeake Bay Phase 3 Watershed Implementation Plan Wastewater Supplement, Revised September 13, 2021

6.1.2 Nitrogen Species and Phosphorus

Parameter	Snake Spring Township STP; PA0084077 Parameter						
		Monitoring:	The monitoring frequency shall be 2x/yr as a 24-hr composite sample				
Ammonia-	Chesapeake Bay	Effluent Limit:	No effluent requirements.				
Nitrogen	TMDL	Rationale:	Due to the Chesapeake Bay Implementation Plan, the facility is required to be monitored on a frequency at least 2x/yr.				
		Monitoring:	The monitoring frequency shall be 2x/yr as a 24-hr composite sample				
Nitrate-Nitrite	Chesapeake Bay	Effluent Limit:	No effluent requirements.				
as N	TMDL	Rationale:	Due to the Chesapeake Bay Implementation Plan, the facility is required to be monitored on a frequency at least 2x/yr.				
		Monitoring:	The monitoring frequency shall be 2x/yr as a calculation.				
Total	Chesapeake Bay	Effluent Limit:	No effluent requirements.				
Nitrogen	TMDL	Rationale:	Due to the Chesapeake Bay Implementation Plan, the facility is required to be monitored on a frequency at least 2x/yr.				
		Monitoring:	The monitoring frequency shall be 2x/yr as a 24-hr composite sample				

Summary of Proposed NPDES Parameter Details for Nitrogen Species and Phosphorus

Due to the Chesapeake Bay Implementation Plan, the facility is required to be monitored on a

Due to anti-backlsiding regulations, the current permit limit shall continue to the proposed permit.

The efflunet requirement originated for dischargers within 60 miles of Lake Raystown.

The monitoring frequency shall be 1x/wk as a 24-hr composite sample Effluent Limit: Effluent limits shall not exceed 3.17 lbs/day and 2.0 mg/l as an average monthly.

Chesapeake Bay

TMDL

Anti-backsliding

Rationale:

Monitoring:

Rationale:

Effluent Limit: No effluent requirements.

frequency at least 2x/yr.

6.1.3 Toxics

TKN

Total

Phosphorus

Notes:

¹ The NPDES permit was limited by (a) anti-Backsliding, (b) Anti-Degradation, (c) SOP, (d) TBEL, (e) TMDL, (f) WQBEL, (g) WET, or (h) Other

² Monitoring frequency based on flow rate of 0.19 MGD.

³ Table 6-3 (Self Monitoring Requirements for Sewage Discharges) in Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits) (Document # 362-0400-001) Revised 10/97

⁴ Water Quality Antidegradation Implementation Guidance (Document # 391-0300-002)

⁵ Chesapeake Bay Phase 3 Watershed Implementation Plan Wastewater Supplement, Revised September 13, 2021

Summary of Proposed NPDES Parameter Details for Toxics

Snake Spring Township STP; PA0084077 **Permit Limitation Parameter** Recommendation Required by1: Monitoring: The monitoring frequency shall be 1x/quarter as a 24-hr composite sample (Table 6-3). Effluent Limit: No monitoring requirement The NPDES application reported the parameter was sampled 3 times. The maximum result was a **Total Lead** WQBEL non-detect value of <0.0080 mg/l. The Toxics Management Spreadsheet recommends limits. Rationale: However, DEP recommends collection of more samples to clearly identify if there is a concern for the pollutant. Future renewals may enforce a limit or eliminate monitoring upon the monitoring results. Notes:

- 1 The NPDES permit was limited by (a) anti-Backsliding, (b) Anti-Degradation, (c) SOP, (d) TBEL, (e) TMDL, (f) WQBEL, (g) WET, or (h) Other 2 Monitoring frequency based on flow rate of 0.19 MGD.
- 3 Table 6-3 (Self Monitoring Requirements for Sewage Discharges) in Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits) (Document # 362-0400-001) Revised 10/97
- 4 Water Quality Antidegradation Implementaton Guidance (Document # 391-0300-002)
- 5 Chesapeake Bay Phase 3 Watershed Implementation Plan Wastewater Supplement, Revised September 13, 2021

6.1.3.1 Implementation of Regulation- Chapter 92a.61

Chapter 92a.61 provides provisions to DEP to monitor for pollutants that may have an impact on the quality of waters of the Commonwealth.

Based upon DEP policy directives the following pollutants shall be monitored:

Consistent with DEP Management directives issued on March 22, 2021 and in conjunction with EPA's 2017
 Triennial Review, monitoring for E. Coli shall be required. The monitoring frequency is based upon flow rate.

	Summary of Proposed NPDES Parameter Details for polluants monitored under Chapter 92a.61							
	Snake Spring Township STP; PA0084077							
Parameter	Permit Limitation		Recommendation					
Parameter	Required by ¹ :							
		Monitoring:	The monitoring frequency shall be 1x/quarter as a grab sample (SOP).					
	SOP; Chapter 92a.61	Effluent Limit:	No effluent requirements.					
E. Coli			Consistent with the SOP- Establishing Effluent Limitations for Individual Sewage Permits (Revised					
		Rationale:	February 5, 2024) and under the authority of Chapter 92a.61, the facility will be required to					
			monitor for E.Coli.					
Notes:								

- 1 The NPDES permit was limited by (a) anti-Backsliding, (b) Anti-Degradation, (c) SOP, (d) TBEL, (e) TMDL, (f) WQBEL, (g) WET, or (h) Other 2 Monitoring frequency based on flow rate of 0.19 MGD.
- 3 Table 6-3 (Self Monitoring Requirements for Sewage Discharges) in Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits) (Document # 362-0400-001) Revised 10/97
- 4 Water Quality Antidegradation Implementation Guidance (Document # 391-0300-002)
- 5 Chesapeake Bay Phase 3 Watershed Implementation Plan Wastewater Supplement, Revised September 13, 2021

6.2 Summary of Changes From Existing Permit to Proposed Permit

A summary of how the proposed NPDES permit differs from the existing NPDES permit is summarized as follows.

- Monitoring shall be required for lead on a quarterly basis
- Due to the EPA triennial review, monitoring shall be required on a quarterly basis for E. Coli
- Monitoring frequency for ammonia-nitrogen shall be at least 1x/week

6.3.1 Summary of Proposed NPDES Effluent Limits

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.

The proposed NPDES effluent limitations are summarized in the table below.

PART	A - EFFLUENT LIMITA	TIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS
I. A.	For Outfall 001	_, Latitude _40° 1′ 1.00", Longitude _78° 26′ 54.00" _, River Mile Index _88.6, Stream Code _13349
	Receiving Waters:	Raystown Branch Juniata River (TSF, MF)
	Type of Effluent:	Sewage Effluent

^{1.} The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.

^{2.} Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

			Effluent L	imitations			Monitoring Re	quirements
Parameter	Mass Units (Ibs/day) (1)		Concentrations (mg/L)				Minimum (2)	Required
raiametei	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
Dissolved Oxygen	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	1/day	Grab
Total Residual Chlorine (TRC)	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	39	63	XXX	25.0	40.0	50	1/week	24-Hr Composite
Biochemical Oxygen Demand (BOD5) Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Total Suspended Solids	47	71	XXX	30.0	45.0	60	1/week	24-Hr Composite
Total Suspended Solids Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	xxx	1/week	24-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab

Outfall 001, Continued (from Permit Effective Date through Permit Expiration Date)

			Effluent L	imitations.			Monitoring Re	quirements
Parameter	Mass Units (Jbs/day) (1)		Concentrations (mg/L)				Minimum (2)	Required
Farameter	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum	Measurement Frequency	Sample Type
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/quarter	Grab
Nitrate-Nitrite as N	XXX	XXX	XXX	Report SEMI AVG	XXX	XXX	1/6 months	24-Hr Composite
Nitrate-Nitrite as N (Total Load, lbs) (lbs)	Report SEMI AVG	XXX	xxx	XXX	XXX	XXX	1/6 months	Calculation
Total Nitrogen	xxx	XXX	XXX	Report SEMI AVG	XXX	XXX	1/6 months	Calculation
Total Nitrogen (Total Load, lbs)	Report SEMI AVG	XXX	XXX	XXX	XXX	XXX	1/6 months	Calculation
Ammonia-Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Total Kjeldahl Nitrogen	xxx	XXX	XXX	Report SEMI AVG	XXX	XXX	1/6 months	8-Hr Composite
Total Kjeldahl Nitrogen (Total Load, lbs) (lbs)	Report SEMI AVG	XXX	xxx	XXX	XXX	XXX	1/6 months	Calculation
Total Phosphorus	3.17	XXX	xxx	2.0	XXX	XXX	1/week	24-Hr Composite
Lead, Total	Report Avg Qrtly	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 001

6.3.2 Summary of Proposed Permit Part C Conditions

The subject facility has the following Part C conditions.

- Chlorine Minimization
- Hauled-in Waste Restrictions
- Chesapeake Bay Nutrient Definitions
- Solids Management for Non-Lagoon Treatment Systems

Tools and References Used to Develop Permit
WQM for Windows Model (see Attachment)
Toxics Management Spreadsheet (see Attachment)
TRC Model Spreadsheet (see Attachment)
Temperature Model Spreadsheet (see Attachment)
Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.
Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
Pennsylvania CSO Policy, 386-2000-002, 9/08.
Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 386-2000-008, 4/97.
Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
Implementation Guidance Design Conditions, 386-2000-007, 9/97.
Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 386-2000-016, 6/2004.
Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.
Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 10/97.
Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 386-2000-020, 10/97.
Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 3/99.
Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 386-2000-010, 3/1999.
Design Stream Flows, 386-2000-003, 9/98.
Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 386-2000-006, 10/98.
Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.
Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
SOP:
Other:

Attachment A Stream Stats/Gauge Data

14 Selected Streamflow Statistics for Streamgage Locations in and near Pennsylvania

Table 1. List of U.S. Geological Survey streamgage locations in and near Pennsylvania with updated streamflow statistics.—Continued [Latitude and Longitude in decimal degrees; mi², square miles]

Streamgage number	Streamgage name	Latitude	Longitude	Drainage area (mi²)	Regulated
01561000	Brush Creek at Gapsville, Pa.	39.956	-78.254	36.8	N
01562000	Raystown Branch Juniata River at Saxton, Pa.	40.216	-78.265	756	N
01562500	Great Trough Creek near Marklesburg, Pa.	40.350	-78.130	84.6	N
01563200	Raystown Branch Juniata River below Rays Dam nr Huntingdon, Pa.	40.429	-77.991	960	Y
01563500	Juniata River at Mapleton Depot, Pa.	40.392	-77.935	2,030	Y
01564500	Aughwick Creek near Three Springs, Pa.	40.213	-77.925	205	N
01565000	Kishacoquillas Creek at Reedsville, Pa.	40.655	-77.583	164	N
01565700	Little Lost Creek at Oakland Mills, Pa.	40.605	-77.311	6.52	N
01566000	Tuscarora Creek near Port Royal, Pa.	40.515	-77.419	214	N
01566500	Cocolamus Creek near Millerstown, Pa.	40.566	-77.118	57.2	N
01567000	Juniata River at Newport, Pa.	40.478	-77.129	3,354	Y
01567500	Bixler Run near Loysville, Pa.	40.371	-77.402	15.0	N
01568000	Sherman Creek at Shermans Dale, Pa.	40.323	-77.169	207	N
01568500	Clark Creek near Carsonville, Pa.	40.460	-76.751	22.5	LF
01569000	Stony Creek nr Dauphin, Pa.	40.380	-76.907	33.2	N
01569800	Letort Spring Run near Carlisle, Pa.	40.235	-77.139	21.6	N
01570000	Conodoguinet Creek near Hogestown, Pa.	40.252	-77.021	470	LF
01570500	Susquehanna River at Harrisburg, Pa.	40.255	-76.886	24,100	Y
01571000	Paxton Creek near Penbrook, Pa.	40.308	-76.850	11.2	N
01571500	Yellow Breeches Creek near Camp Hill, Pa.	40.225	-76.898	213	N
01572000	Lower Little Swatara Creek at Pine Grove, Pa.	40.538	-76.377	34.3	N
01572025	Swatara Creek near Pine Grove, Pa.	40.533	-76.402	116	N
01572190	Swatara Creek near Inwood, Pa.	40.479	-76.531	167	N
01573000	Swatara Creek at Harper Tavern, Pa.	40.403	-76.577	337	N
01573086	Beck Creek near Cleona, Pa.	40.323	-76.483	7.87	N
01573160	Quittapahilla Creek near Bellegrove, Pa.	40.343	-76.562	74.2	N
01573500	Manada Creek at Manada Gap, Pa.	40.397	-76.709	13.5	N
01573560	Swatara Creek near Hershey, Pa.	40.298	-76.668	483	N
01574000	West Conewago Creek near Manchester, Pa.	40.082	-76.720	510	N
01574500	Codorus Creek at Spring Grove, Pa.	39.879	-76.853	75.5	Y
01575000	South Branch Codorus Creek near York, Pa.	39.921	-76.749	117	Y
01575500	Codorus Creek near York, Pa.	39.946	-76.755	222	Y
01576000	Susquehanna River at Marietta, Pa.	40.055	-76.531	25,990	Y
01576085	Little Conestoga Creek near Churchtown, Pa.	40.145	-75.989	5.82	N
01576500	Conestoga River at Lancaster, Pa.	40.050	-76.277	324	N
01576754	Conestoga River at Conestoga, Pa.	39.946	-76.368	470	N
01578310	Susquehanna River at Conowingo, Md.	39.658	-76.174	27,100	Y
01578400	Bowery Run near Quarryville, Pa.	39.895	-76.114	5.98	N
01580000	Deer Creek at Rocks, Md.	39.630	-76.403	94.4	N
01581500	Bynum Run at Bel Air, Md.	39.541	-76.330	8.52	N
01581700	Winters Run near Benson, Md.	39.520	-76.373	34.8	N
01582000	Little Falls at Blue Mount, Md.	39.604	-76.620	52.9	N
01582500	Gunpowder Falls at Glencoe, Md.	39.550	-76.636	160	Y
01583000	Slade Run near Glyndon, Md.	39.495	-76.795	2.09	N
01583100	Piney Run at Dover, Md.	39.521	-76.767	12.3	N

26 Selected Streamflow Statistics for Streamgage Locations in and near Pennsylvania

Table 2. Selected low-flow statistics for streamgage locations in and near Pennsylvania.—Continued

[ft3/s; cubic feet per second; ---, statistic not computed; <, less than]

Streamgage number	Period of record used in analysis ¹	Number of years used in analysis	1-day, 10-year (ft³/s)	7-day, 10-year (ft³/s)	7-day, 2-year (ft³/s)	30-day, 10-year (ft³/s)	30-day, 2-year (ft³/s)	90-day, 10-year (ft³/s)
01546000	1912-1934	17	1.8	2.2	6.8	3.7	12.1	11.2
01546400	1986-2008	23	13.5	14.0	19.6	15.4	22.3	18.7
01546500	1942-2008	67	26.8	29.0	41.3	31.2	44.2	33.1
01547100	1969-2008	40	102	105	128	111	133	117
01547200	1957-2008	52	99.4	101	132	106	142	115
01547500	21971-2008	38	28.2	109	151	131	172	153
01547500	31956-1969	14	90.0	94.9	123	98.1	131	105
01547700	1957-2008	52	.5	.6	2.7	1.1	3.9	2.
01547800	1971-1981	11	1.6	1.8	2.4	2.1	2.9	3
01547950	1970-2008	39	12.1	13.6	28.2	17.3	36.4	23.
01548005	² 1971–2000	25	142	151	206	178	241	223
01548005	31912-1969	58	105	114	147	125	165	140
01548500	1920-2008	89	21.2	24.2	50.1	33.6	68.6	49.
01549000	1910–1920	11	26.0	32.9	78.0	46.4	106	89.
01549500	1942-2008	67	.6	.8	2.5	1.4	3.9	2.
01549700	1959-2008	50	33.3	37.2	83.8	51.2	117	78.
01550000	1915-2008	94	6.6	7.6	16.8	11.2	24.6	18.
01551500	21963-2008	46	520	578	1,020	678	1,330	919
01551500	31901-1961	61	400	439	742	523	943	752
01552000	1927–2008	80	20.5	22.2	49.5	29.2	69.8	49.
01552500	1942-2008	67	.9	1.2	3.1	1.7	4.4	3.
01553130	1969–1981	13	1.0	1.1	1.5	1.3	1.8	1.
01553500	21968-2008	41	760	838	1,440	1,000	1,850	1,470
01553500	31941–1966	26	562	619	880	690	1,090	881
01553700	1981–2008	28	9.1	10.9	15.0	12.6	17.1	15.
01554000	21981-2008	28	1,830	1,990	3,270	2,320	4,210	3,160
01554000	31939–1979	41	1,560	1,630	2,870	1,880	3,620	2,570
01554500	1941–1993	53	16.2	22.0	31.2	25.9	35.7	31.
01555000	1931–2008	78	33.5	37.6	58.8	43.4	69.6	54.
01555500	1931–2008	78	4.9	6.5	18.0	9.4	24.3	16.
01556000	1918–2008	91	43.3	47.8	66.0	55.1	75.0	63.
01557500	1946–2008	63	2.8	3.2	6.3	4.2	8.1	5.
01557500	1940–2008	69	56.3	59.0	79.8	65.7	86.2	73.
01558000	1943–2008	66	104	177	249	198	279	227
01559500	1931–1958	28	9.3	10.5	15.0	12.4	17.8	15.
01559300	1963–1978	16	.1	.1	.2	.1	.3	15.
01560000	1941–2008	68	8.5	9.4	15.6	12.0	20.2	16.
01561000	1932–1958	27	4	-5	15.6	.8	20.2	16.
01562000	1913–2008	96	64.1	67.1	106	77.4	122	94.
01562500	1931–1957	27	1.1	1.6	3.8	2.3	5.4	3.
01563200	21974–2008	35				112	266	129
01563200	31948–1972	25	10.3	28.2	86.1	64.5	113	95.
01563500	21974–2008	35	384	415	519	441	580	493
01202200			153	242		278		333
01563500	31939-1972	34	152	7/17	343	7).79	399	

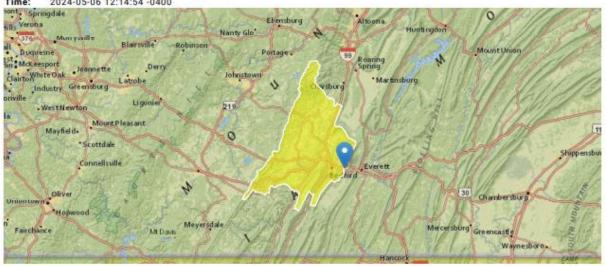
StreamStats Report

Region ID:

Workspace ID: PA20240506161427054000

Clicked Point (Latitude, Longitude): 40.01509, -78.44667

2024-05-06 12:14:54 -0400



Snake Spring Township MA WWTP PA0084077 Modeling Point #1 May 2024

Collapse All

> Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	9.33	percent
DRNAREA	Area that drains to a point on a stream	366	square miles
PRECIP	Mean Annual Precipitation	38	inches
ROCKDEP	Depth to rock	4	feet
STRDEN	Stream Density total length of streams divided by drainage area	2.37	miles per square mile

Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 2]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	366	square miles	4.93	1280
PRECIP	Mean Annual Precipitation	38	inches	35	50.4
STRDEN	Stream Density	2.37	miles per square mile	0.51	3.1
ROCKDEP	Depth to Rock	4	feet	3.32	5.65
CARBON	Percent Carbonate	9.33	percent	0	99

Low-Flow Statistics Flow Report [Low Flow Region 2]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	SE	ASEp
7 Day 2 Year Low Flow	28.4	ft^3/s	38	38
30 Day 2 Year Low Flow	38.7	ft^3/s	33	33
7 Day 10 Year Low Flow	13.7	ft^3/s	51	51
30 Day 10 Year Low Flow	19.2	ft^3/s	46	46
90 Day 10 Year Low Flow	29.9	ft^3/s	36	36

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/)

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StreamStats Report

Region ID: PA

Workspace ID: PA20240506161742777000

Clicked Point (Latitude, Longitude): 40.01462, -78.42567

Time: 2024-05-06 12:18:06 -0400 sills Verona Duquesne Jamette Clairto White Dak Huntingdon Nanty Glo Blairsville Mount Union Industry Greensburg Latrobe Johnstown . West Newton MountPleasant Mayfield. 0 *Scottdale Connellsville Uniontown Oliver 30 Chambersburg *Hopwood Meyersdale Mercesburg Greencastle Fairchance Waynesboro.

Snake Spring Township MA WWTP PA0084077 Modeling Point #2 May 2024

Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	9.75	percent
DRNAREA	Area that drains to a point on a stream	367	square miles
PRECIP	Mean Annual Precipitation	38	inches
ROCKDEP	Depth to rock	4	feet
STRDEN	Stream Density total length of streams divided by drainage area	2.37	miles per square mile

Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 2]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	367	square miles	4.93	1280
PRECIP	Mean Annual Precipitation	38	inches	35	50.4
STRDEN	Stream Density	2.37	miles per square mile	0.51	3.1
ROCKDEP	Depth to Rock	4	feet	3.32	5.65
CARBON	Percent Carbonate	9.75	percent	0	99

Low-Flow Statistics Flow Report [Low Flow Region 2]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	SE	ASEP
7 Day 2 Year Low Flow	28.7	ft^3/s	38	38
30 Day 2 Year Low Flow	39	ft^3/s	33	33
7 Day 10 Year Low Flow	13.9	ft^3/s	51	51
30 Day 10 Year Low Flow	19.4	ft^3/s	46	46
90 Day 10 Year Low Flow	30.1	ft^3/s	36	36

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/)

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Attachment B

WQM 7.0 Modeling Output Values
Toxics Management Spreadsheet Output
Values

WQM 7.0 Effluent Limits

	SWP Basin 11D	Stream Code 13349	RAY	Stream Name STOWN BRANCH JU	_		
RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
88.600	Sanke Spring	PA0084077	0.190	CBOD5	25		
				NH3-N	25	50	
				Dissolved Oxygen			5

88.60 Sanke Spring

WQM 7.0 Wasteload Allocations

SWP Basin	Stream Code	Stream Name
11D	13349	RAYSTOWN BRANCH JUNIATA RIVER

	11D	13349	R	AYSTOWN B	RANCH JUNI	ATA RIVER		
NH3-N A	Acute Allocation	ns						
RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reductio	n
88.600) Sanke Spring	3.06	50	3.06	50	0	0	_
NH3-N C	Chronic Allocat	ions						
RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction	
88.600) Sanke Spring	.64	25	.64	25	0	0	_
Dissolve	d Oxygen Alloc	cations						_
RMI	Discharge Na	-			Dissol ultiple Baseling/L) (mg/L		Critical	Percen Reducti

25

Input Data WQM 7.0

						at Date								
	SWP Basir			Stre	eam Name		RMI	Eleva		Drainage Area (sq mi)	Slop (ft/ft	Witho	VS Irawal gd)	Appl
	11D	133	349 RAYS	TOWN B	RANCH JUI	NIATA RIV	88.60	0 3	12.00	366.0	0.00	000	0.00	✓
					St	ream Dat	a							
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem	<u>Tributary</u> p pl	н	<u>Strear</u> Temp	n pH	
oona.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)		
Q7-10 Q1-10 Q30-10	0.089	0.00 0.00 0.00	0.00	0.000 0.000 0.000	0.000 0.000 0.000	0.0	0.00	0.00	23	3.30	8.00	0.00	0.00	
					D	ischarge [Data]	
			Name	Per	mit Numbe	Existing Disc r Flow (mgd)	Permitte d Disc Flow (mgd)	Design Disc Flow (mgd)	Res Fa	erve T ctor	Disc emp (°C)	Disc pH		
		Sank	e Spring	PA	0084077	0.1900	0.1900	0.190	00 (0.000	25.00	7.28		
					Pa	arameter [Data							
				Paramete	r Name		onc C	onc (ream Conc	Fate Coef				
						(m	g/L) (m	ig/L) (r	ng/L)	(1/days)				
			CBOD5			2	25.00	2.00	0.00	1.50				
			Dissolved	Oxygen			5.00	8.24	0.00	0.00				
			NH3-N			2	25.00	0.00	0.00	0.70				

Input Data WQM 7.0

					шр	ut Date	a vv Qiv	17.0						
	SWP Basir			Stre	eam Name		RMI	Eleva (fi		Drainage Area (sq mi)	Slope (ft/ft)	Withd	rawal	Apply FC
	11D	133	349 RAYS	TOWN B	RANCH JU	NIATA RI\	86.68	0 3	809.00	367.00	0.000	000	0.00	✓
					St	tream Dat	a							
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem	Tributary pppph	1 1	Strean Temp	n pH	
Cona.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)		
Q7-10 Q1-10 Q30-10	0.089	0.00 0.00 0.00	0.00 0.00 0.00	0.000 0.000 0.000	0.000 0.000 0.000	0.0	0.00	0.00	2	3.30 8	.00	0.00	0.00	
					D	ischarge l	Data]	
			Name	Per	mit Numbe	Existing Disc r Flow (mgd)	Permitte d Disc Flow (mgd)	Design Disc Flow (mgd	Res Fa	erve Te	isc emp (C)	Disc pH		
						0.000	0.000	0.00	00 (0.000	25.00	7.00		
					Pa	arameter	Data							
				Paramete	r Name				tream Conc	Fate Coef				
			'	alamete	. Hallie	(m	ng/L) (m	g/L) (mg/L)	(1/days)		_		
			CBOD5				25.00	2.00	0.00	1.50				
			Dissolved	Oxygen			3.00	8.24	0.00	0.00				
			NH3-N				25.00	0.00	0.00	0.70				

WQM 7.0 D.O.Simulation

SWP Basin 11D	Stream Code 13349	R	RAYSTOW	Stream Nam N BRANCH JU	_	VER
<u>RMI</u> 88.600	Total Discharge) Ana	lysis Tempera 23,315	ture (°C)	Analysis pH 7.984
Reach Width (ft)	Reach De	-		Reach WDR	atio	Reach Velocity (fps)
102.267	1.00	_	_	102.108		0.320
Reach CBOD5 (mg/L)	Reach Kc		R	each NH3-N (mg/L)	Reach Kn (1/days)
2.21	0.11 Reach Kr	_		0.22 Kr Equatio	n	0.903 Reach DO Goal (mg/L)
Reach DO (mg/L) 8.214	0.47			Tsivoglou		5
Reach Travel Time (days	3)	Subreach	Results			
0.366	TravTime (days)	CBOD5 (mg/L)	NH3-N (mg/L)	D.O. (mg/L)		
	0.037	2.20	0.22	7.76		
	0.073	2.18	0.21	7.76		
	0.110	2.17	0.20	7.76		
	0.147	2.16	0.20	7.76		
	0.183	2.15	0.19	7.76		
	0.220	2.14	0.18	7.76		
	0.257	2.13	0.18	7.76		
	0.293		0.17	7.76		
	0.330		0.17	7.76		
	0.366	2.10	0.16	7.76		

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WQM 7.0 Hydrodynamic Outputs

	SW	P Basin	Strea	m Code				Stream	Name			
		11D	1	3349		RA	STOWN	BRANC	H JUNIAT	A RIVER	₹	
RMI	Stream Flow	PWS With	Net Stream	Disc Analysis	Reach Slope	Depth	Width	W/D Ratio	Velocity	Trav	Analysis Temp	Analysis pH
	(cfs)	(cfs)	Flow (cfs)	Flow (cfs)	(ft/ft)	(ft)	(ft)		(fps)	Time (days)	(°C)	
Q7-1	0 Flow											
88.600	32.50	0.00	32.50	.2939	0.00030	1.002	102.27	102.11	0.32	0.366	23.32	7.98
Q1-1	0 Flow											
88.600	31.20	0.00	31.20	.2939	0.00030	NA	NA	NA	0.31	0.375	23.32	7.98
Q30-	10 Flow	,										
88.600	37.38	0.00	37.38	.2939	0.00030	NA	NA	NA	0.35	0.339	23.31	7.99

WQM 7.0 Modeling Specifications

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	
WLA Method	EMPR	Use Inputted W/D Ratio	
Q1-10/Q7-10 Ratio	0.96	Use Inputted Reach Travel Times	
Q30-10/Q7-10 Ratio	1.15	Temperature Adjust Kr	✓
D.O. Saturation	90.00%	Use Balanced Technology	✓
D.O. Goal	5		

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Attachment C TRC Evaluation

Snake Spring Township WWTP PA0084077

May 2024

	С	D	E	F	G					
TRC EVALU	IATION									
		B4:B8 and E4:E7								
	5 = Q stream (,		= CV Daily						
	9 = Q discharg	, ,		= CV Hourly						
	0 = no. sample			= AFC_Partial M						
		emand of Stream		= CFC_Partial M						
	0 = Chlorine D 5 = BAT/BPJ V	emand of Discharge	15 = AFC_Criteria Compliance Time (min)							
			720 = CFC_Criteria Compliance Time (min) 0 =Decay Coefficient (K)							
Source	Reference	of Safety (FOS) AFC Calculations	U	Reference	CFC Calculations					
TRC		WLA afc =	25 275							
PENTOXSD TRO	1.3.2.iii 5 5.1a	WLA atc =		1.3.2.iii 5.1c	WLA cfc = 34.383 LTAMULT cfc = 0.581					
PENTOXSD TRO		LTA afc=		5.1d	LTA cfc = 19.988					
I ENTOXOD TIX	. 0	ETA_dio-	10.144	0.14	ETA_010 = 10,000					
Source Effluent Limit Calculations										
PENTOXSD TRG 5.1f AML MULT = 1.231										
PENTOXSD TRO	3 5.1g	AVG MON LIMI	, ,		BAT/BPJ					
		INST MAX LIMI	i (mg/i) =	1.035						
WLA afc (.019/e(-k*AFC_tc)) + [(AFC_Yc*Qs*.019/Qd*e(-k*AFC_tc))										
		FC_tc)) + [(AFC_Yc*Qs C_Yc*Qs*Xs/Qd)]*(1-F		'e(-k*AFC_tc))						
LTAMULT afc	+ Xd + (AFC		OS/100)							
	+ Xd + (AFC	C_Yc*Qs*Xs/Qd)]*(1-Fi (cvh^2+1))-2.326*LN(c	OS/100)							
LTAMULT afc	+ Xd + (AFC EXP((0.5*LN) wla_afc*LTA (.011/e(-k*CF	C_Yc*Qs*Xs/Qd)]*(1-Fi (cvh^2+1))-2.326*LN(c	OS/100) cvh^2+1)^ *. 011/Qd *	0.5)						
LTAMULT afc LTA_afc	+ Xd + (AFC EXP((0.5*LN) wla_afc*LTA (.011/e(-k*CFC + Xd + (CFC EXP((0.5*LN)	C_Yc*Qs*Xs/Qd)]*(1-F((cvh^2+1))-2.326*LN(c MULT_afc FC_tc) + [(CFC_Yc*Qs* C_Yc*Qs*Xs/Qd)]*(1-F((cvd^2/no_samples+1)	OS/100) :vh^2+1)^ *.011/Qd* OS/100)	0.5) e(-k*CFC_tc))	ples+1)^0.5)					
LTAMULT afc LTA_afc WLA_cfc	+ Xd + (AFC EXP((0.5*LN) wla_afc*LTA (.011/e(-k*CFC + Xd + (CFC	C_Yc*Qs*Xs/Qd)]*(1-F((cvh^2+1))-2.326*LN(c MULT_afc FC_tc) + [(CFC_Yc*Qs* C_Yc*Qs*Xs/Qd)]*(1-F((cvd^2/no_samples+1)	OS/100) :vh^2+1)^ *.011/Qd* OS/100)	0.5) e(-k*CFC_tc))	ples+1)^0.5)					
LTAMULT afc LTA_afc WLA_cfc LTAMULT_cfc	+ Xd + (AF(EXP((0.5*LN(wla_afc*LTA (.011/e(-k*Cf + Xd + (CF(EXP((0.5*LN(wla_cfc*LTA	C_Yc*Qs*Xs/Qd)]*(1-F((cvh^2+1))-2.326*LN(c MULT_afc FC_tc) + [(CFC_Yc*Qs* C_Yc*Qs*Xs/Qd)]*(1-F((cvd^2/no_samples+1)	OS/100) :vh^2+1)^ *. 011/Qd* OS/100)))-2.326*L	0.5) e(-k*CFC_tc)) N(cvd^2/no_sam						
LTAMULT afc LTA_afc WLA_cfc LTAMULT_cfc LTA_cfc	+ Xd + (AFC EXP((0.5*LN) wla_afc*LTA (.011/e(-k*CF + Xd + (CFC EXP((0.5*LN) wla_cfc*LTA EXP(2.326*LI)	C_Yc*Qs*Xs/Qd)]*(1-F((cvh^2+1))-2.326*LN(c MULT_afc FC_tc) + [(CFC_Yc*Qs* C_Yc*Qs*Xs/Qd)]*(1-F((cvd^2/no_samples+1) MULT_cfc	OS/100) :vh^2+1)^ *.011/Qd* OS/100)))-2.326*L +1)^0.5)-0	0.5) e(-k*CFC_tc)) N(cvd^2/no_sam						

Attachment D Commercial/Industrial Users

Snake Spring Township Municipal Authority

Non-Residential Metered Customer List & Wastewater Flow

	CUSTOMER NAME	USE	<u>EDU</u>	AVERAGE WASTEWATER FLOW (MGD)
1.	Zimmerman, Steve (Country Furniture)	Retail Sales	1	0.000150
2.	Quick & Easy Auto	Car Wash	2.26	0.000339
3.	Home Nursing Agency	Nursing Services	1	0.000150
4.	Wilt, Dr. Brandon	Doctor	1	0.000150
5.	AutoZone Store	Retail Services	1	0.000150
6.	Bedford Inc.	Eye Doctor	1	0.000150
7.	Bedford Plaza	Comm. Spaces/Retail Sales	3.56	0.000534
8.	Center for Community	Non-Profit	1	0.000150
9.	Pennwood Bible	Religious	2	0.000300
10.	Bollman Charter	Charter Bus Service	3.5	0.000525
11.	Yanoshak, Stephen	Doctor	4	0.000600
12.	Professional Buildings, LLC	Comm. Spaces/Medical Offices	1	0.000150
13.	Delaney, Page	Dental services	2	0.000300
14.	US Renal Care MS #1	Medical Services	1	0.000150
15.	Spring Communication	Cell Services - AT&T	1	0.000150
16.	Snake Spring Valley Christian Academy	Institutional	1	0.000150
17.	Everett Cash Mutual	Financial Institution	1	0.000150
18.	Super C Group	Hair Salon	4.5	0.000675
19.	Countryside Garden	Retail Sales/Nursery	1	0.000150
20.	McDonald's - Bedford	Restaurant	4.28	0.000642
21.	Delaney Building	Dental Services	6	0.000900
22.	Dragon Chinese Restaurant	Restaurant	2	0.000300
23.	Erlichman, Dr Katherin	Ophthalmologist	1	0.000150
24.	Checkered Flag Fast/Jiffy Lube	Retail Sales & Service	1	0.000150
25.	Commonwealth Code Inspection Services	Inspection Services	1	0.000150
26.	Mile Level Physical	Medical Services	3	0.000450
27.	Mile Level Market	Retail Sales	2	0.000300
28.	Christian & Miss. Alliance Church	Religious	1	0.000150
29.	Everett Cash Mutual	Financial Institution	2	0.000300
30.	Central PA Cardiology	Doctor	1	0.000150
31.	O'Reilly Automotive	Retail Services	2	0.000300
32.	PennKnoll Village	Nursing Home	33.66	0.005049
33.	Eich Group - Scalla's Garage	Retail Sales & Service	1	0.000150
34.	Gentry, Mike	Medical Services	1	0.000150
35.	ProCare Fitness	Fitness	1	0.000150
36.	Heavy Duty Tire	Retail Sales & Service	1	0.000150
37.	R & R Optical	Wise Eyes/Doctor	1	0.000150
38.	SAC, Inc	Convenience Store	3.24	0.000486
39.	Altoona First Savings Bank	Financial Institution	1	0.000150

40. Sheetz, Inc #28	Convenience Store	6.82	0.001023
41. Eich Group - Sherwin Williams	Retail Sal	1	0.000150
42. Advanced Auto	Retail Sales	1	0.000150
43. Dollar Tree Stores	Retail Sales	1	0.000150
44. Bedford Co. Technical	Institutional	4.89	0.000734
45. Tractor Supply #746	Retail Sales	1	0.000150
46. ACRP	Child Welfare	4	0.000600
47. UPMC Health-Medical Art's Building	Doctor	4	0.000600
48. Pennwood Family Medicine	Medical Services	1	0.000150
49. UPMC Health System-Doctor Baer	Physician	5	0.000750
50. Bedford Orthopedics-Dr. Glah's	Medical Services	1	0.000150
51. Bedford OBGYN-Royston's Old House	Medical Services	1	0.000150
52. UPMC Health System	Hospital	71.52	0.010728
53. Vreeland, Dr. Darryl	Phsician	1	0.000150
54. Wal-Mart Stores, Inc.	Department Store	12.87	0.001931
55. Lashley's Garage, LLC.	Auto Repair	1	0.000150
56. Warner, Dr. Darryl	Chiropractor/Sports Medicine	1	0.000150
57. Weis Markets #140	Grocery Store	6.28	0.000942
58. Sabo, Randy R. Chimney Doctor	General Contractor	1	0.000150
59. Imler Plaza/Fred Imler	Retail Sales	2	0.000300
60. Heritage Square Rt. 30	Commercial Rental Spaces	6	0.000900
61. Five Star Power Sports	Retail Sales & Service	2	0.000300
62. Homewood Retirement-Spring House Estates	Retirement Community	64.44	0.009666
63. Mile Level Pizza	Take Out Restaurant	1	0.000150
64. 7th Day Adventist	Religious	1	0.000150
65. Amerigas	Office Only	1	0.000150
66. ABC Phones of North	Retail Sales & Service	2	0.000300
67. Pro Happy Nails	Retail Sales & Service	1	0.000150
68. Snake Spring Twp Recreational Park	Recreation	1	0.000150
69. Community Life	Adult Daycare	4	0.000600
70. First Peoples Federal	Financial Institution	1	0.000150
71. Construction Supply	Retail Sales	1	0.000150
72. UGI - 733100 MS#1	Office/Garage	1	0.000150
73. Eich Group-Olde Towne Plaza	Commercial Rental Spaces	7	0.001050
74. Eich Group-Lincoln I Plaza	Commercial Rental Spaces	9	0.001350
75. Eich Group-Lincoln II Plaza	Commercial Rental Spaces	5.6	0.000840
76. Eich Group-Sears Building	Future Distillery Bottling	1	0.000150
77. Bedford Valley Petroleum	Office Only	1	0.000150
78. Durga Bedford Inc.	Retail Sales and Service	1	0.000150
79. EMS Diagnostics	Medical Services	2	0.000300
80. Deja Brew - Imler's	Coffee Shop	1	0.000150
81. Bedford, The County	Currently Empty	2	0.000300