pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southcentral Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0081442**
Facility Type	**Non-Municipal**	APS ID	**42010**
Major / Minor	**Minor**	Authorization ID	**1279721**

Applicant and Facility Information

Applicant Name	**South Eastern School District**	Facility Name	**South Eastern Mid School STP**
Applicant Address	377 Main Street	Facility Address	377 Main Street
	Fawn Grove, PA 17321-9514		Fawn Grove, PA 17321-9514
Applicant Contact	Brian Mccleary	Facility Contact	
Applicant Phone	(717) 382-4843	Facility Phone	
Client ID	64328	Site ID	451543
Ch 94 Load Status	Not Overloaded	Municipality	Fawn Township
Connection Status		County	York
Date Application Received	June 25, 2019	EPA Waived?	Yes
Date Application Accepted	July 11, 2019	If No, Reason	

Purpose of Application: Renewal of existing NPDES permit

Summary of Review

The South Eastern School District has applied to the Pennsylvania Department of Environmental Protection (DEP) for reissuance of its NPDES permit for the South Eastern School District STP. The permit was last reissued to the South Eastern School District on November 24, 2014 and became effective on December 1, 2014. The permit expired on November 30, 2019 but the terms and conditions of the permit have been administratively extended since that time.

Based on the review outlined in this fact sheet, it is recommended that the permit be drafted, and a notice of the draft permit be published in the *Pennsylvania Bulletin* for public comments for 30 days. A file review of documents associated with the discharge or permittee may be available at the PA DEP southcentral regional office (SCRO), 909 Elmerton Avenue, Harrisburg, PA 17110. To make an appointment for file reviews, contact the SCRO file review coordinator at 717.705.4700.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Approve	Deny	Signatures	Date
x		Aaron Baar / Permits Section ***Aaron Baar***	October 8, 2020
		Daniel W. Martin, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.05
Latitude	39º 43' 39.18"	Longitude	-76º 27' 57.73"
Quad Name	Fawn Grove	Quad Code	2134
Wastewater Description:	Sewage Effluent		
Receiving Waters	Falling Branch (CWF, MF)	Stream Code	06764
NHD Com ID	57474815	RMI	0.76
Drainage Area	0.48 mi^2	Yield (cfs/mi^2)	0.10
Q_{7-10} Flow (cfs)	0.048	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	672	Slope (ft/ft)	
Watershed No.	7-I	Chapter 93 Class.	CWF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake	Unknown (Maryland)		
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Drainage Area

The discharge is to UT to Falling Branch at RMI 0.76. A drainage area upstream of the discharge point is determined to be 0.48 sq.mi. according to USGS PA StreamStats available at https://streamstats.usgs.gov/ss/.

Stream Flow

The watershed for the UT to Falling Branch is too small for accurate projections, so the low flow yield was estimated by using the statewide average of 0.10 cfs/mi^2. According to StreamStats, the watershed has a draining area of 0.48 mi^2, yielded an estimated Q_{7-10} flow of 0.048 cfs.

UT to Falling Branch

UT to Falling Branch is classified as a CWF/MF waterway. Effluent limits for this discharge have been developed to ensure that existing in-stream water uses and the level of water quality necessary to protect the existing uses are maintained and protected.

Public Water Supply Intake

The nearest downstream public water supply intake is not in Pennsylvania, and therefore, is not documented in eMAP PA. Considering the distance and nature of the discharge, the discharge is not expected to significantly affect the water supply.

Class A Wild Trout Streams

The receiving stream is not a Class A Wild Trout stream.

Treatment Facility Summary

Treatment Facility Name: South Eastern Schools

WQM Permit No.	Issuance Date
6700408	December 6, 2000

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary With Ammonia And Phosphorus	Extended Aeration	Ultraviolet	0.05

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.05		Not Overloaded	Aerobic Digestion	Other WWTP

The South Eastern School District owns and operates the South Eastern School District sanitary wastewater treatment facility located in Fawn Township, York County. The facility serves only the Middle School, all wastes are residential in nature, and all sewer systems are 100% separated. Having an annual average design flow of 0.050 MGD and a hydraulic design capacity of 0.050 MGD, this facility consists of an bar screen/comminutor, EQ tank, aeration tank x1, secondary clarification x2, a UV disinfection system and the outfall (Outfall 001). Soda Ash (pH control) and alum (solids precipitation) are added to the treatment process. Solids are stored in an onsite sludge holding tank for offsite disposal.

Compliance History	
Summary of DMRs:	A summary of past DMR data is presented on the next page.
Summary of Inspections:	Since the last NPDES permit renewal, there are records that the facility has been inspected at least two times. The notes from the inspections are as follows: 1/14/16: Austen Pardoe, DEP Water Quality Specialist, conducted a routine inspection. No violations were noted. 04/26/17: Sheena Ripple, DEP Water Quality Specialist, conducted a routine inspection. No violations were noted.

Other Comments: A records review revealed that there are no Clean Water open violations associated with this permitee as of October 8, 2020.

Existing Effluent Limitations and Monitoring Requirements

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Total Monthly	Daily Maximum	Minimum	Average Monthly		Instant. Maximum		
Flow (MGD)	Report Avg Mo	Report	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
Dissolved Oxygen	XXX	XXX	5.0	XXX	XXX	XXX	1/day	Grab
UV Intensity (mW/cm^2)	XXX	XXX	Report	Report	XXX	XXX	1/day	Recorded
CBOD5	XXX	XXX	XXX	25	XXX	50	2/month	8-Hr Composite
Total Suspended Solids	XXX	XXX	XXX	30	XXX	60	2/month	8-Hr Composite
Fecal Coliform (CFU/100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1,000	2/month	Grab
Fecal Coliform (CFU/100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2,000 Geo Mean	XXX	10,000	2/month	Grab
Ammonia-Nitrogen May 1 - Oct 31	XXX	XXX	XXX	3.5	XXX	7.0	2/month	8-Hr Composite
Ammonia-Nitrogen Nov 1 - Apr 30	XXX	XXX	XXX	10.5	XXX	21	2/month	8-Hr Composite
Nitrate-Nitrite as N	Report	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite
Total Kjeldahl Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite
Total Nitrogen	Report	Report Total Annual	XXX	Report	XXX	XXX	1/month	Calculation
Total Phosphorus	Report	Report Total Annual	XXX	Report	XXX	XXX	1/month	8-Hr Composite

Compliance History

DMR Data for Outfall 001 (from September 1, 2019 to August 31, 2020)

Parameter	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19
Flow (MGD) Average Monthly	0.0051	0.0044	0.0031	0.0069	0.0074	0.0149	0.0163	0.01444	0.015	0.0142	0.013	0.0135
Flow (MGD) Daily Maximum	0.014	0.0121	0.008	0.0176	0.0113	0.0278	0.0268	0.0277	0.033	0.0254	0.0219	0.0177
pH (S.U.) Minimum	6.5	6.4	6.5	6.7	6.2	6.2	7.0	6.6	6.7	6.4	6.0	6.1
pH (S.U.) Maximum	7.1	6.9	7.0	7.0	7.5	7.2	7.6	7.3	7.3	7.1	7.1	7.8
DO (mg/L) Minimum	6.9	6.5	6.4	7.03	7.6	6.2	6.2	5.8	7.02	7.2	8.1	7.5
CBOD5 (mg/L) Average Monthly	< 2	< 2	< 2.3	< 2.2	< 2	< 2	< 2	3.3	< 2.3	4.8	< 2	< 2
TSS (mg/L) Average Monthly	25	< 9	< 22	19	< 7	6	< 5	< 5	10	39	< 8	6
Fecal Coliform (CFU/100 ml) Geometric Mean	< 2	< 1	35	< 1	< 1	< 2	< 5	51	< 1	27	< 2	< 3
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	3	< 1	250	< 1	< 1	3	24	2600	< 1	52	3	9
UV Intensity (mW/cm²) Minimum	0.0	0.8	1.7	2.5	2.9	0.8	7.6	1.1	1.9	0.0	0.0	0.0
UV Intensity (mW/cm²) Average Monthly	0.0	2.1	7.4	4.1	3.6	1.9	9.4	3.9	5.9	4	5	3.7
Nitrate-Nitrite (mg/L) Average Monthly	11.7	32.3	11.1	50.5	17.6	19.2	16	5.25	29.7	71.3	1.3	34.6
Nitrate-Nitrite (lbs) Total Monthly	18	3	22	146	40	79	58	4	94	301	5	132
Total Nitrogen (mg/L) Average Monthly	13.1	< 33.3	< 12.1	< 51.5	< 18.6	20.7	< 18.8	< 6.35	33.6	< 72.3	< 2.3	< 35.6
Total Nitrogen (lbs) Total Monthly	20	< 3	< 24	< 149	< 42	86	< 68	< 8	106	< 306	< 8	< 135
Total Nitrogen (lbs) Other Annual Final Effluent Total Annual									< 1536.242			

Ammonia (mg/L) Average Monthly	0.193	0.172	0.409	< 0.1	0.442	< 0.13	< 0.1	0.534	5.49	0.539	1.969	2.73
TKN (mg/L) Average Monthly	1.4	< 1	< 1	< 1	< 1	1.5	< 1	< 1.1	3.9	< 1	< 1	< 1
TKN (lbs) Total Monthly	2	< 0.08	< 2	< 3	< 2	6	< 4	< 4	12	< 4	< 3	< 4
Total Phosphorus (mg/L) Average Monthly	1.1	0.48	0.16	0.35	< 0.1	0.48	0.31	< 0.33	0.25	5	< 0.1	2.2
Total Phosphorus (lbs) Total Monthly	2	0.04	0.3	1	< 0.2	2	1	< 2	0.8	21	< 0.3	8
Total Phosphorus (lbs) Other Annual Final Effluent Total Annual									< 89.332			

Compliance History

Effluent Violations for Outfall 001, from: October 1, 2019 To: August 31, 2020

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
TSS	11/30/19	Avg Mo	39	mg/L	30	mg/L

Other Comments: The violation noted above appears to be anomalous.

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .05
Latitude 39º 43' 42.64" **Longitude** -76º 27' 53.13"
Wastewater Description: Sewage Effluent

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
$CBOD_5$	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Total Suspended Solids	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pH	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)

Comments: These standards apply, subject to water quality analysis and BPJ where applicable.

Water Quality-Based Limitations

CBOD5, NH3-N and Dissolved Oxygen (DO)

WQM 7.0 version 1.0b is a water quality model designed to assist DEP to determine appropriate permit requirements for CBOD5, NH3-N and DO. DEP's guidance 391-2000-007 provides the technical methods contained in WQM 7.0 for conducting wasteload allocation and for determining recommended NPDES effluent limits for point source discharges.

The model was utilized, and the model output indicated that existing WQBEL of 3.5 mg/L for ammonia (summer) is no longer protective of water quality. A new WQBEL of 2.9 mg/L for ammonia (summer) is proposed in this permit. Instantaneous limits for ammonia were updated with the Department's standard 2.0x multiplier. Updated winter limits were calculated with the Department's standard 3.0x multiplier for ammonia. A review of the facility's DMR data indicates that the existing facility is already capable of meeting the revised limits.

The monitoring frequency and sample type for CBOD5 and DO are proposed to remain unchanged.

Toxics

There are no industrial contributions to this facility. DEP's NPDES permit application for minor sewages (less than 1.0 MGD) does not require sampling for heavy metals including Total Copper, Total Lead, and Total Zinc.

Best Professional Judgment (BPJ) Limitations

Ultraviolet Disinfection

The existing UV system is equipped with a intensity sensor; therefore, UV intensity will continue to be specified as the monitoring parameter for UV system.

Total Phosphorus & Total Nitrogen

DEP's SOP no. BPNPSM-PMT-033 recommends monitoring requirements for Total Phosphorus and Total Nitrogen for all sewage facilities. These monitoring requirements were incorporated into the last renewal and are proposed to be extended in this permit.

Additional Considerations

Flow Monitoring

The requirement to monitor the volume of effluent will remain in the draft permit per 40 CFR § 122.44(i)(1)(ii).

Chesapeake Bay TMDL

The Department formulated a strategy in April 2007, to comply with the EPA's and Chesapeake Bay Foundation's requirements to reduce point source loadings of Total Nitrogen (TN) and Total Phosphorus (TP) to the Bay. In the Strategy, sewage dischargers have been prioritized by Central Office based on their delivered TN loadings to the Bay. The highest priority (Phases 1, 2, and 3) dischargers received annual loading caps based on their design flow on August 29, 2005 and concentrations of 6 mg/l TN and 0.8 mg/l TP. Phase 4 (0.2 -0.4mgd) and Phase 5 (below 0.2mdg) facilities were required to monitor and report TN and TP during permit renewal at a monitoring frequency following Table 6-3 of DEP's Technical Guidance for Development and Specification of effluent Limitations (No. 362-0400-001).

EPA published the Chesapeake Bay Total Maximum Daily Load (TMDL) in December of 2010. Despite extensive restoration efforts during the past 25 years, the TMDL was prompted by insufficient progress and continued poor water quality in the Chesapeake Bay and its tidal tributaries.

In order to address the TMDL, Pennsylvania developed, in addition to the Bay Strategy, a Chesapeake Watershed Implementation Plan (WIP) Phase 1 in January 2011 and Phase 2 in March 2012. In accordance with the Phase 3 WIP and its supplement, re-issuing permits for significant dischargers follow the same phased approach formulated in the original Bay strategy, whilst Phase 4 and Phase 5 will be required to monitor and report TN and TP during permit renewal.

The Phase 3 WIP categorizes this facility as a phase 5 non-significant sewage facility that has a design flow less than 0.2 MGD but greater than 0.002 MGD. The WIP recommends monitoring and reporting for Total Nitrogen and Total Phosphorus throughout the permit term at a frequency no less than annual. The monitoring of NOx, TKN and TN once every six months will be written in the permit in conformity with other permits issued in the region.

Monitoring Frequency and Sample Type

The facility currently is required to collect 2/month grab effluent samples for CBOD5, TSS, fecal, and ammonia. This monitoring frequency is consistent with Table 6-3 of DEP's technical guidance no. 362-0400-001 and will remain unchanged in this permit.

Antidegradation Requirements

All effluent limitations and monitoring requirements have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected.

Anti-backsliding Requirement

All effluent limits proposed in this fact sheet are as stringent as effluent limits specified in the existing permit renewal. This approach is in accordance with 40 CFR §122.44(l(1).

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: ./DMR_EFFECTIVE_DATE_MONTH through ./DMR_EXPIRATION_DATE_MONTH.

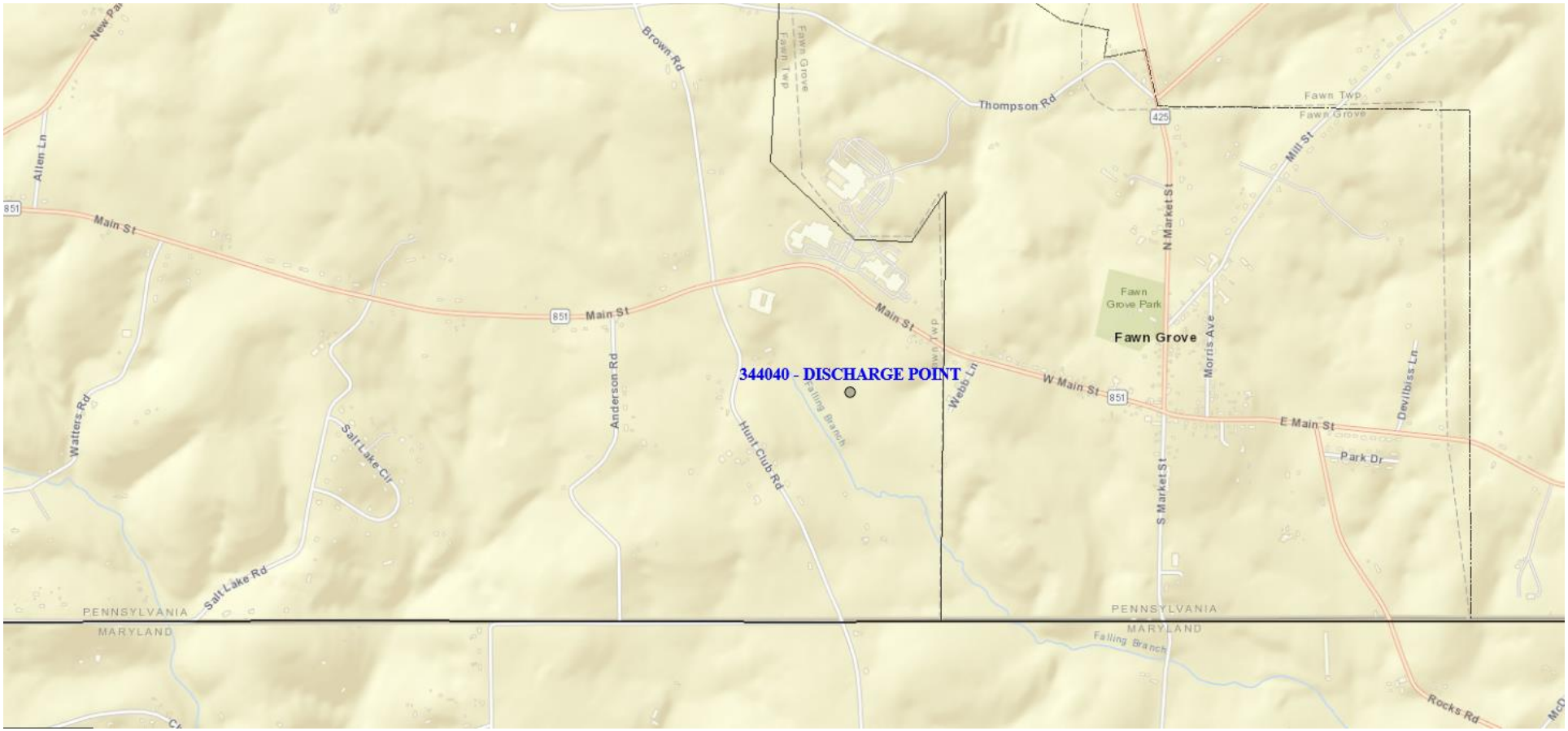
Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Instantaneous Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0	XXX	XXX	XXX	1/day	Grab
CBOD5	XXX	XXX	XXX	25	XXX	50	2/month	8-Hr Composite
TSS	XXX	XXX	XXX	30	XXX	60	2/month	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
UV Intensity (mW/cm^2)	XXX	XXX	Report	Report	XXX	XXX	1/day	Recorded
Nitrate-Nitrite	XXX	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite
Nitrate-Nitrite (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/month	Calculation
Total Nitrogen (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	8.7	XXX	17.4	2/month	8-Hr Composite

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

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Instantaneous Minimum	Average Monthly	Maximum	Instant. Maximum		
Ammonia May 1 - Oct 31	XXX	XXX	XXX	2.9	XXX	5.8	2/month	8-Hr Composite
TKN	XXX	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite
TKN (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite
Total Phosphorus (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation

Compliance Sampling Location: Outfall 001

PA0081442 Report 5.pdf
PA0081442 Report 6.pdf
PA0081442 StreamStats 001.pdf
PA0081442 StreamStats Downst
PA0081442 Report 1.pdf
PA0081442 Report 2.pdf
PA0081442 Report 3.pdf
PA0081442 Report 4.pdf



Tools and References Used to Develop Permit	
☒	WQM for Windows Model (see Attachment)
☐	PENTOXSD for Windows Model (see Attachment)
☐	TRC Model Spreadsheet (see Attachment)
☐	Temperature Model Spreadsheet (see Attachment)
☐	Toxics Screening Analysis Spreadsheet (see Attachment)
☐	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
☒	Technical Guidance for the Development and Specification of Effluent Limitations, 362-0400-001, 10/97.
☐	Policy for Permitting Surface Water Diversions, 362-2000-003, 3/98.
☐	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 362-2000-008, 11/96.
☐	Technology-Based Control Requirements for Water Treatment Plant Wastes, 362-2183-003, 10/97.
☐	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 362-2183-004, 12/97.
☐	Pennsylvania CSO Policy, 385-2000-011, 9/08.
☒	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
☐	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 391-2000-002, 4/97.
☒	Determining Water Quality-Based Effluent Limits, 391-2000-003, 12/97.
☐	Implementation Guidance Design Conditions, 391-2000-006, 9/97.
☒	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 391-2000-007, 6/2004.
☐	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 391-2000-008, 10/1997.
☐	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 391-2000-010, 3/99.
☐	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 391-2000-011, 5/2004.
☐	Implementation Guidance for Section 93.7 Ammonia Criteria, 391-2000-013, 11/97.
☐	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 391-2000-014, 4/2008.
☐	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 391-2000-015, 11/1994.
☐	Implementation Guidance for Temperature Criteria, 391-2000-017, 4/09.
☐	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 391-2000-018, 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, 391-2000-019, 10/97.
☐	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 391-2000-021, 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, 391-2000-022, 3/1999.
☐	Design Stream Flows, 391-2000-023, 9/98.
☐	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 391-2000-024, 10/98.
☐	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 391-3200-013, 6/97.
☐	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
☐	SOP:
☐	Other: