pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northcentral Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0044547**
Facility Type	**Non-Municipal**	APS ID	**1118202**
Major / Minor	**Minor**	Authorization ID	**1492944**

Applicant and Facility Information

Applicant Name	**PA DCNR**	Facility Name	**Hills Creek State Park**
Applicant Address	111 Spill Way Road	Facility Address	111 Spill Way Road
	Wellsboro, PA 16901-7022		Wellsboro, PA 16901-7022
Applicant Contact	Benjamin Stone	Facility Contact	Benjamin Stone
Applicant Phone	(570) 724-4246	Facility Phone	(570) 724-4246
Client ID	52524	Site ID	261942
Ch 94 Load Status	Not Overloaded	Municipality	Charleston Township
Connection Status	No Limitations	County	Tioga
Date Application Received	July 19, 2024	EPA Waived?	Yes
Date Application Accepted	July 31, 2024	If No, Reason	
Purpose of Application	Renewal of a NPDES Permit		

Summary of Review

The subject treatment facility serves the operations at Hills Creek State Park as well as nearby residences in Charleston Township, Tioga County. A map of the discharge location is attached.

Sludge use and disposal description and location(s): The facility's sludge is transferred to other facilities for further processing. Per the application 0.736 dry tons were removed in the previous year.

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
✓		Keith C. Allison / Project Manager	January 14, 2025
✓		Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	January 14, 2025

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.035
Latitude	41º 48' 6.55"	Longitude	-77º 11' 40.86"
Quad Name	Crooked Creek, PA	Quad Code	0428
Wastewater Description:	Sewage Effluent		
Receiving Waters	Hills Creek (WWF)	Stream Code	31209
NHD Com ID	57351981	RMI	6.44
Drainage Area	3.63 mi^2	Yield (cfs/mi^2)	0.0191
Q_{7-10} Flow (cfs)	0.0693	Q_{7-10} Basis	USGS gage 01518500, Crooked Creek @ Tioga (1955-1974, pre-regulation)
Elevation (ft)	1482	Slope (ft/ft)	0.016
Watershed No.	4-A	Chapter 93 Class.	WWF
Existing Use	N/A	Existing Use Qualifier	N/A
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Attaining Use(s)		
Nearest Downstream Public Water Supply Intake	PA/NY State Line		
PWS Waters	Tioga River	Distance from Outfall (mi)	Approx. 35

Changes Since Last Permit Issuance: None. The above stream and drainage characteristics were determined for previous reviews and remain adequate.

Other Comments: No downstream water supply is expected to be affected by this discharge at this time with the limitations and monitoring proposed. The Department considers the Pennsylvania-New York Border to serve as the nearest downstream water supply when no nearer water supply exists.

Treatment Facility Summary

Treatment Facility Name: Hills Creek State Park

WQM Permit No.	Issuance Date	Permit Covers:
5974402	Original – 10/8/97	Original Permit for two 35,000 gpd package extended aeration plants.
	A-1 – 9/10/97	Modified one of the existing 35,000-gallon aeration tanks by splitting it into a 25,000-gallon equalization tank and a 10,000-gallon aeration tank.
	A-2 – 10/26/16	Modified second 35,000-gallon aeration tank into a 15,000-gallon EQ tank and 20,000-gallon aeration tank, removal of drying beds, other facility rehabilitation, and the option of either installation of dechlorination or replacement of the existing chlorine disinfection with UV disinfection.

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Hypochlorite	0.035

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.035	64.2	Not Overloaded	Aerobic Digestion	Other WWTP

Changes Since Last Permit Issuance: None

Other Comments: The facility consists of two lift stations, a bar screen, two equalization tanks, two aeration tanks, two clarifiers, ultraviolet light disinfection, and sludge holding tank.

Compliance History

DMR Data for Outfall 001 (from December 1, 2023 to November 30, 2024)

Parameter	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23
Flow (MGD) Average Monthly	0.001991	0.002944	0.003386	0.005372	0.005447	0.005009	0.004158	0.005691	0.003319	0.0034	0.005665	0.00304
pH (S.U.) Instantaneous Minimum	8.54	6.15	6.25	6.50	6.35	6.27	6.16	6.19	6.53	6.04	6.14	6.40
pH (S.U.) Instantaneous Maximum	6.07	7.83	8.05	8.39	8.12	8.53	8.60	8.36	7.76	7.78	7.29	6.84
DO (mg/L) Instantaneous Minimum	3.16	3.42	3.34	3.78	3.83	2.1	3.42	2	2.95	3.81	4.74	4.00
CBOD5 (mg/L) Average Monthly	4	8	8	6	15	9	8	16	3	2	8	2
TSS (mg/L) Average Monthly	< 8	12	< 10	< 8	< 8	< 8	< 9	8	< 10	< 8	< 11	< 8.0
Fecal Coliform (No./100 ml) Geometric Mean	< 1	< 1	9	8	< 6	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Fecal Coliform (No./100 ml) Instantaneous Maximum	1	1	25.9	17.5	40	< 1	2	< 1	< 1	< 1	1	< 1.0
UV Intensity (mW/cm²) Daily Minimum	5.8	6.5	3.3	5.0	4.3	3.6	4.7	3.6	5.7	1.1	2.8	4.0
Ammonia (lbs/day) Average Monthly	0.001	0.001	0.003	0.004	0.007	0.004	0.002	0.003	0.001	< 0.0005	< 0.001	0.002
Ammonia (mg/L) Average Monthly	0.08	0.06	0.08	0.12	0.16	0.11	0.09	0.05	0.06	< 0.02	< 0.03	0.08

Compliance History, Continued

Summary of Inspections:	The facility has been inspected approximately annually by the Department over the past permit term. The most recent inspection on May 30, 2024 identified no violations at the time of inspection.
Other Comments:	A query is WMA found the open violations listed in the attached table in eFACTS for PA DCNR.

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**
	Average Monthly	**Average Weekly**	**Daily Minimum**	**Average Monthly**	**Maximum**	**Instant. Maximum**		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Measured
DO	XXX	XXX	Report Inst Min	XXX	XXX	XXX	1/day	Measured
CBOD5	XXX	XXX	XXX	25	XXX	50	2/month	Grab
TSS	XXX	XXX	XXX	30	XXX	60	2/month	Grab
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	XXX	XXX	XXX	1/day	Measured
Ammonia Nov 1 - Apr 30	Report	XXX	XXX	13.7	XXX	27	2/month	Grab
Ammonia May 1 - Oct 31	Report	XXX	XXX	4.59	XXX	9.18	2/month	Grab

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.035
Latitude 41º 48' 6.90" **Longitude** -77º 11' 40.50"
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)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
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: The above limits are applicable and are included in the existing permit.

Water Quality-Based Limitations

DO, CBOD5 and NH3-N

The WQM7.0 model allows the Department to evaluate point source discharges of dissolved oxygen (DO), carbonaceous BOD ($CBOD_5$), and ammonia-nitrogen (NH_3-N) into free-flowing streams and rivers. To accomplish this, the model simulates two basic processes: the mixing and degradation of NH_3-N in the stream and the mixing and consumption of DO in the stream due to the degradation of $CBOD_5$ and NH_3-N. The discharge has existing water quality-based NH3-N limits as noted on the previous page. WQM7.0 modeling was performed (see Attachment B) for the discharge to Hills Creek and verifies that the existing limitations are adequate to protect the receiving waters.

Water Quality Toxics Management

No additional reasonable potential analysis has been performed to determine additional parameters for limitations or monitoring for this minor sewage treatment plant with no industrial influent.

Chesapeake Bay/Nutrient Requirements

A portion of the Chesapeake Bay and many of its tidal tributaries have been listed as impaired under Section 303(d) of the Water Pollution Control Act, 33 U.S.C. §1313(d). Total Nitrogen and Total Phosphorus cap loads have been established for significant dischargers in Pennsylvania to reduce the total nutrient load to the Bay and meet State of Maryland Water Quality Standards. The Hills Creek facility is considered a Phase V, non-significant Chesapeake Bay discharger and as such no nutrient cap loadings have been established for the facility pursuant to the Phase III Watershed Implementation Plan. Sampling for a previous permit term found Total Nitrogen and Total Phosphorus concentrations to average 32.2 and 4.9 mg/L, respectively. Because the permittee has adequately characterized the nutrient load from the facility no additional monitoring for total nitrogen or total phosphorus will be required at this time.

Best Professional Judgment (BPJ) Limitations

Comments: No additional BPJ limits are necessary at this time beyond the water quality and technology-based limits noted above.

E. Coli

Annual e. coli monitoring will be required at this time due to changes to Chapter 93 of the Department's regulations and Department policy.

Anti-Backsliding

No monitoring or limitations in this proposed draft permit have been made less stringent consistent with the anti-backsliding requirements of the Clean Water Act and 40 CFR 122.44(l).

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" (386-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Daily Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Measured
DO	XXX	XXX	Report Inst Min	XXX	XXX	XXX	1/day	Measured
CBOD5	XXX	XXX	XXX	25	XXX	50	2/month	Grab
TSS	XXX	XXX	XXX	30	XXX	60	2/month	Grab
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/cm²)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Measured
Ammonia Nov 1 - Apr 30	Report	XXX	XXX	13.7	XXX	27	2/month	Grab
Ammonia May 1 - Oct 31	Report	XXX	XXX	4.59	XXX	9.18	2/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	Grab

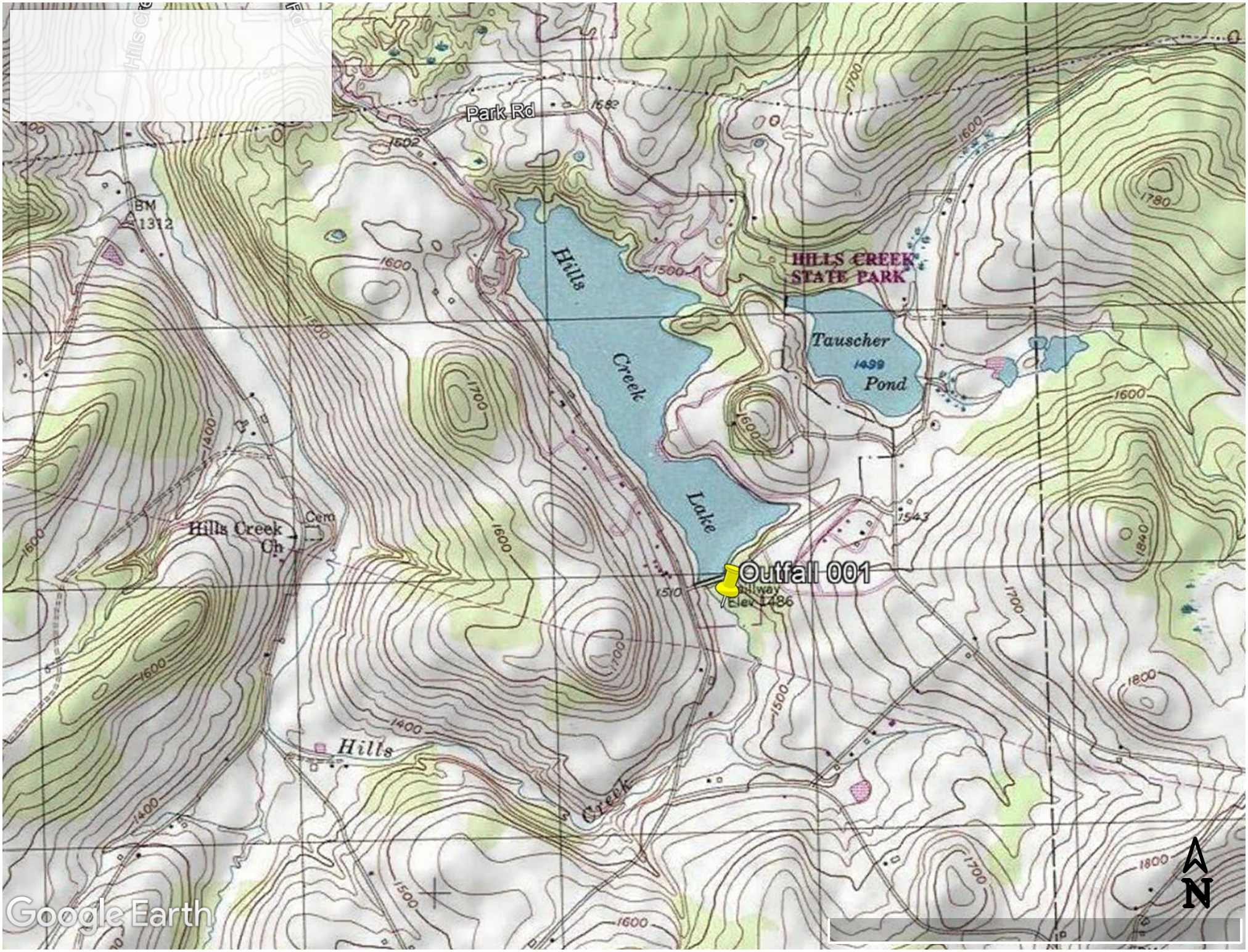
Compliance Sampling Location: Outfall 001

Other Comments: E. Coli monitoring is new as mentioned above.

Tools and References Used to Develop Permit	
☒	WQM for Windows Model (see Attachment **C**)
☐	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:

Attachments:

A. Discharge Location Map
B. Open Violations for PA DCNR
C. WQM7.0 Model


Park Rd
Hills Creek Lake
HILLS CREEK STATE PARK
Tauscher Pond
1499
Outfall 001
Elev 1486
Hills Creek Ch
Cem
BM 1312
Hills Creek
N
Google Earth

CLIENT	PF_ID	FACILITY	PF_KIND	INSP_PROGRAM	PROGRAM_SPECIFIC_ID	VIOLATION_ID	VIOLATION_DATE	VIOLATION	INSP_REGION
PA DCNR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Safe Drinking Water	5040376	8158820	9/18/2023	FAILURE TO IMPLEMENT A FILTER BED EVALUATION PROGRAM	SWRO
PA DCNR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Safe Drinking Water	5040376	8158822	9/18/2023	CHRONIC FAILURE TO MONITOR	SWRO
PA DCNR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Safe Drinking Water	5040376	8158823	9/18/2023	FAILURE TO TEST ALARM AND SHUTDOWN CAPABILITIES OR RESPOND TO ALARM AND SHUTDOWN EQUIPMENT FAILURES	SWRO
PA DCNR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Safe Drinking Water	5040376	8158824	9/18/2023	EXCEEDANCE OF A SECONDARY MCL	SWRO
PA DCNR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Safe Drinking Water	5040376	8158825	9/18/2023	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	SWRO
PA DCNR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Safe Drinking Water	5040376	8158826	9/18/2023	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	SWRO
PA DCNR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Safe Drinking Water	5040376	8158827	9/18/2023	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	SWRO
PA DCNR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Safe Drinking Water	5040376	8158828	9/18/2023	FAILURE TO ACCURATELY REPORT DATA	SWRO
PA DCNR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Safe Drinking Water	5040376	8176128	2/22/2024	CHRONIC FAILURE TO REPORT	SWRO
PA DCNR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Safe Drinking Water	5040376	8176129	2/22/2024	CHRONIC FAILURE TO MONITOR	SWRO
PA DCNR	282295	OHIOPYLE ST PK	Transient NonCommunity	Safe Drinking Water	5260800	996961	6/1/2023	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	SWRO
PA DCNR	243230	LAUREL RIDGE STATE PARK	Transient NonCommunity	Safe Drinking Water	5260856	939255	12/16/2021	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	SWRO
PA DCNR	243230	LAUREL RIDGE STATE PARK	Transient NonCommunity	Safe Drinking Water	5260856	939256	12/16/2021	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	SWRO
PA DCNR	243230	LAUREL RIDGE STATE PARK	Transient NonCommunity	Safe Drinking Water	5260856	943058	1/19/2022	FAILED TO MONITOR OR REPORT THE REQUIRED NUMBER OF TOTAL COLIFORM SAMPLES	SWRO
PA DCNR	283892	COOK FOREST STATE PARK	Transient NonCommunity	Safe Drinking Water	6160800	8190222	5/23/2024	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	NWRO
PA DCNR	283892	COOK FOREST STATE PARK	Transient NonCommunity	Safe Drinking Water	6160800	8190223	5/23/2024	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	NWRO
PA DCNR	283892	COOK FOREST STATE PARK	Transient NonCommunity	Safe Drinking Water	6160800	8190224	5/23/2024	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	NWRO
PA DCNR	283892	COOK FOREST STATE PARK	Transient NonCommunity	Safe Drinking Water	6160800	8190225	5/23/2024	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	NWRO
PA DCNR	283892	COOK FOREST STATE PARK	Transient NonCommunity	Safe Drinking Water	6160800	8190226	5/23/2024	EXCEEDANCE OF A SECONDARY MCL	NWRO
PA DCNR	283892	COOK FOREST STATE PARK	Transient NonCommunity	Safe Drinking Water	6160800	8190227	5/23/2024	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	NWRO
PA DCNR	283892	COOK FOREST STATE PARK	Transient NonCommunity	Safe Drinking Water	6160800	8190228	5/23/2024	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	NWRO
PA DCNR	283892	COOK FOREST STATE PARK	Transient NonCommunity	Safe Drinking Water	6160800	8190229	5/23/2024	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	NWRO
PA DCNR	283892	COOK FOREST STATE PARK	Transient NonCommunity	Safe Drinking Water	6160800	8190230	5/23/2024	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	NWRO
PA DCNR	284070	PYMATUNING WATERFOWL MUSEUM	Transient NonCommunity	Safe Drinking Water	6201072	947059	3/10/2022	CIRCUMSTANCES EXIST WHICH ADVERSELY AFFECT THE QUANTITY OR QUALITY OF WATER	NWRO
PA DCNR	284070	PYMATUNING WATERFOWL MUSEUM	Transient NonCommunity	Safe Drinking Water	6201072	947060	3/10/2022	CROSS-CONNECTIONS EXIST WITHOUT PROPER BACKFLOW PROTECTION	NWRO
PA DCNR	290531	PSP ESPYVILLE LAUNCH	Transient NonCommunity	Safe Drinking Water	6201100	959738	6/22/2022	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	NWRO
PA DCNR	542933	PYMATUNING SP SHELTER #9	Transient NonCommunity	Safe Drinking Water	6201161	8194338	7/3/2024	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	NWRO
PA DCNR	542933	PYMATUNING SP SHELTER #9	Transient NonCommunity	Safe Drinking Water	6201161	8194339	7/3/2024	OTHER VIOLATIONS DEEMED TO BE SIGNIFICANT DEFICIENCIES	NWRO
PA DCNR	542933	PYMATUNING SP SHELTER #9	Transient NonCommunity	Safe Drinking Water	6201161	8194340	7/3/2024	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	NWRO
PA DCNR	542933	PYMATUNING SP SHELTER #9	Transient NonCommunity	Safe Drinking Water	6201161	8194341	7/3/2024	OTHER VIOLATIONS DEEMED TO BE SIGNIFICANT DEFICIENCIES	NWRO
PA DCNR	542933	PYMATUNING SP SHELTER #9	Transient NonCommunity	Safe Drinking Water	6201161	8194342	7/3/2024	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	NWRO
PA DCNR	542933	PYMATUNING SP SHELTER #9	Transient NonCommunity	Safe Drinking Water	6201161	8194343	7/3/2024	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	NWRO
PA DCNR	542934	PSP ESPYVILLE LIVERY NEW	Transient NonCommunity	Safe Drinking Water	6201162	959782	6/22/2022	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	NWRO
PA DCNR	542934	PSP ESPYVILLE LIVERY NEW	Transient NonCommunity	Safe Drinking Water	6201162	959783	6/22/2022	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	NWRO
PA DCNR	542934	PSP ESPYVILLE LIVERY NEW	Transient NonCommunity	Safe Drinking Water	6201162	959784	6/22/2022	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	NWRO
PA DCNR	542934	PSP ESPYVILLE LIVERY NEW	Transient NonCommunity	Safe Drinking Water	6201162	959785	6/22/2022	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	NWRO
PA DCNR	478629	MCCONNELLS MILL STATE PARK	Transient NonCommunity	Safe Drinking Water	6370802	930330	9/20/2021	FAILURE TO SAMPLE AT APPROPRIATE LOCATIONS OR FOLLOW SAMPLE COLLECTION PROTOCOLS	NWRO
PA DCNR	478629	MCCONNELLS MILL STATE PARK	Transient NonCommunity	Safe Drinking Water	6370802	930331	9/20/2021	EXCEEDANCE OF A SECONDARY MCL	NWRO
PA DCNR	248812	RICKETTS GLEN STATE PRK	Sewage Non-Publicly Owned	WPC NPDES	PA0032115	893343	9/3/2020	NPDES - Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance	NERO
PA DCNR	248812	RICKETTS GLEN STATE PRK	Sewage Non-Publicly Owned	WPC NPDES	PA0032115	8181153	9/19/2023	NPDES - Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance	NERO
PA DCNR	282186	MORAINE STATE PARK	Sewage Non-Publicly Owned	WPC NPDES	PA0032531	8178892	3/11/2024	CSL - Failure to comply with terms and conditions of a WQM permit	NWRO
PA DCNR	249912	HISTORICAL PARK UPPER WWTP	Sewage Non-Publicly Owned	WPC NPDES	PA0042978	972316	9/20/2022	NPDES - Failure to use a format or process required by DEP for self-monitoring results	SERO
PA DCNR	279694	PARKER DAM STATE PARK WWTP	Sewage Non-Publicly Owned	WPC NPDES	PA0044245	8212105	12/30/2024	NPDES - Violation of effluent limits in Part A of permit	NCRO
PA DCNR	526845	HISTORICAL PARK LOWER WWTP	Sewage Non-Publicly Owned	WPC NPDES	PA0051268	952048	4/14/2022	NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports	SERO
PA DCNR	526845	HISTORICAL PARK LOWER WWTP	Sewage Non-Publicly Owned	WPC NPDES	PA0051268	952049	4/14/2022	NPDES - Failure to properly document monitoring activities and results	SERO

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
04A	31209	HILLS CREEK	**6.440**	1482.00	3.63	0.00000	0.00	☑

Stream Data

Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Tributary Temp (°C)	Tributary pH	Stream Temp (°C)	Stream pH
Q7-10	0.019	0.00	0.00	0.000	0.000	0.0	0.00	0.00	20.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
Hills Ceek SP	PA0044547	0.0350	0.0000	0.0000	0.000	25.00	7.00

Parameter Data

Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/days)
CBOD5	25.00	2.00	0.00	1.50
Dissolved Oxygen	3.00	8.24	0.00	0.00
NH3-N	4.59	0.00	0.00	0.70

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
04A	31209	HILLS CREEK	**4.700**	1335.00	5.30	0.00000	0.00	☑

Stream Data

Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Tributary Temp (°C)	Tributary pH	Stream Temp (°C)	Stream pH
Q7-10	0.019	0.00	0.00	0.000	0.000	0.0	0.00	0.00	20.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
		0.0000	0.0000	0.0000	0.000	25.00	7.00

Parameter Data

Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (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 Hydrodynamic Outputs

SWP Basin	Stream Code	Stream Name
04A	31209	HILLS CREEK

RMI	Stream Flow (cfs)	PWS With (cfs)	Net Stream Flow (cfs)	Disc Analysis Flow (cfs)	Reach Slope (ft/ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (fps)	Reach Trav Time (days)	Analysis Temp (ºC)	Analysis pH
Q7-10 Flow												
6.440	0.07	0.00	0.07	.0541	0.01600	.368	6.21	16.9	0.05	1.972	22.20	7.00
Q1-10 Flow												
6.440	0.04	0.00	0.04	.0541	0.01600	NA	NA	NA	0.05	2.237	22.75	7.00
Q30-10 Flow												
6.440	0.09	0.00	0.09	.0541	0.01600	NA	NA	NA	0.06	1.779	21.83	7.00

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	0.64	Use Inputted Reach Travel Times	☐
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	☑
D.O. Saturation	90.00%	Use Balanced Technology	☑
D.O. Goal	5		

WQM 7.0 D.O.Simulation

SWP Basin	Stream Code	Stream Name
04A	31209	HILLS CREEK

RMI	Total Discharge Flow (mgd)	Analysis Temperature (°C)	Analysis pH
6.440	0.035	22.199	7.000
Reach Width (ft)	**Reach Depth (ft)**	**Reach WDRatio**	**Reach Velocity (fps)**
6.212	0.368	16.901	0.054
Reach CBOD5 (mg/L)	**Reach Kc (1/days)**	**Reach NH3-N (mg/L)**	**Reach Kn (1/days)**
12.12	0.826	2.02	0.829
Reach DO (mg/L)	**Reach Kr (1/days)**	**Kr Equation**	**Reach DO Goal (mg/L)**
5.937	20.583	Owens	5
Reach Travel Time (days)			
1.972			

Subreach Results

TravTime (days)	CBOD5 (mg/L)	NH3-N (mg/L)	D.O. (mg/L)
0.197	10.12	1.71	7.74
0.394	8.45	1.45	7.92
0.592	7.06	1.23	7.92
0.789	5.89	1.05	7.92
0.986	4.92	0.89	7.92
1.183	4.11	0.76	7.92
1.380	3.43	0.64	7.92
1.578	2.87	0.54	7.92
1.775	2.39	0.46	7.92
1.972	2.00	0.39	7.92

WQM 7.0 Wasteload Allocations

SWP Basin	Stream Code	Stream Name
04A	31209	HILLS CREEK

NH3-N Acute Allocations

RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
6.440	Hills Ceek SP	13.34	9.18	13.34	9.18	0	0

NH3-N Chronic Allocations

RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
6.440	Hills Ceek SP	1.68	4.58	1.68	4.58	0	0

Dissolved Oxygen Allocations

RMI	Discharge Name	CBOD5		NH3-N		Dissolved Oxygen		Critical Reach	Percent Reduction
		Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)		
6.44	Hills Ceek SP	25	25	4.58	4.58	3	3	0	0

WQM 7.0 Effluent Limits

SWP Basin	Stream Code	Stream Name
04A	31209	HILLS CREEK

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)
6.440	Hills Ceek SP	PA0044547	0.035	CBOD5	25		
				NH3-N	4.58	9.16	
				Dissolved Oxygen			3