

Application Type Renewal  
Facility Type Non-Municipal  
Major / Minor Minor

## NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0032425  
APS ID 1066212  
Authorization ID 1400992

### Applicant and Facility Information

Applicant Name <u>PA DCNR – Bureau of State Parks</u>	Facility Name <u>Ohiopyle State Park Campground STP</u>
Applicant Address <u>PO Box 105</u> <u>Ohiopyle, PA 15470-0105</u>	Facility Address <u>Hickory Road</u> <u>Ohiopyle, PA 15470</u>
Applicant Contact <u>Kenneth E. Bisbee</u>	Facility Contact <u>Daniel A Kauffman</u>
Applicant Phone <u>(724) 329-8591</u>	Facility Phone <u>Same as Applicant</u>
Client ID <u>52524</u>	Site ID <u>263222</u>
Ch 94 Load Status <u>Not Overloaded</u>	Municipality <u>Stewart Township</u>
Connection Status <u>No Limitations</u>	County <u>Fayette</u>
Date Application Received <u>June 27, 2022</u>	EPA Waived? <u>Yes</u>
Date Application Accepted _____	If No, Reason _____

Purpose of Application Application for the Renewal of a NPDES permit for the discharge of treated Sewage.

### Summary of Review

The Bureau has applied for a renewal of NPDES Permit No. PA0032425, which was previously issued by the Department on August 24, 2017. That permit expired on August 31, 2022.

WQM Permit No. 2670405 was issued on May 21, 1970, authorizing the construction of an STP to treat an annual average design flow of 0.04 MGD.

The STP is an extended air two train facility consists of comminutor, EQ tank, aeration tanks (1 per train), final clarifier (1 per train), chlorine contact tank (liquid sodium hypochlorite), and tablet dichlorination.



The receiving stream, UNT to Youghiogheny River, is currently classified as a WWF, located in State Watershed No. 19-E.

The Bureau has complied with Act 14 Notifications and no comments were received.

Changes since the last permit include:

- Addition of *E.Coli* monitoring

Sludge use and disposal description and location(s): Application data indicates that a total of 2.085 dry tons of sewage sludge/biosolids have been produced/wasted in the past year. They also indicated that the facility did not receive additional sludge from other sources and that none of sewage sludge/biosolids produced by this facility is not being managed under a beneficial use permit. Sewage Sludge is hauled to the Clairton WWTP (NPDES Permit No. PA0026824) for processing/disposal.

Approve	Deny	Signatures	Date
X		 William C. Mitchell, E.I.T. / Project Manager	December 20, 2024
X		 Mahbuba Iasmin, Ph.D., P.E. / Environmental Engineering Manager	December 24, 2024

Summary of Review

Public Participation

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

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.04
Latitude	39° 52' 45.00"	Longitude	-79° 29' 32.00"
Quad Name		Quad Code	
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary to Youghiogheny River (WWF)	Stream Code	38474
NHD Com ID	69920929	RMI	0.19
Drainage Area	0.21	Yield (cfs/mi <sup>2</sup> )	0.0067
Q <sub>7-10</sub> Flow (cfs)	0.0014	Q <sub>7-10</sub> Basis	USGS StreamStats
Elevation (ft)	1432	Slope (ft/ft)	0.33354
Watershed No.	19-E	Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use	NONE	Exceptions to Criteria	NONE
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	
Background/Ambient Data		Data Source	
pH (SU)			
Temperature (°F)			
Hardness (mg/L)			
Other:			
Nearest Downstream Public Water Supply Intake	North Fayette County MA		
PWS Waters	Youghiogheny River	Flow at Intake (cfs)	390
PWS RMI	46.57	Distance from Outfall (mi)	14.37

Changes Since Last Permit Issuance: Drainage Area, Q<sub>7/10</sub> Flow, Elevation, Yield, and Slope were updated for modeling purposes.

Other Comments: N/A

Treatment Facility Summary				
<b>Treatment Facility Name:</b> Ohiopyle State Park Campground STP				
<b>WQM Permit No.</b>	<b>Issuance Date</b>			
2670405	05/21/1970			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary With Ammonia Reduction	Extended Aeration	Chlorine With Dechlorination	0.04
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.04	N/A	Not Overloaded	Holding Tank	Clairton WWTP

Changes Since Last Permit Issuance: None

Other Comments: N/A

**Compliance History**

**Operations Compliance Check Summary Report**

**Facility:** OHIOPYLE STATE PARK CAMPGROUND STP

**NPDES Permit No.:** PA0032425

**Compliance Review Period:** 12/1/19-12/18/24

**Inspection Summary:**

INSPECTED DATE	INSP TYPE	AGENCY	INSPECTION RESULT DESC
08/12/2022	Compliance Evaluation	PA Dept of Environmental Protection	No Violations Noted
10/06/2020	Compliance Evaluation	PA Dept of Environmental Protection	No Violations Noted

**Violation Summary:**

No violations noted during review period.

**Open Violations by Client ID:**

No open violations for Client ID 52524 for Clean Water in SWRO. Open violations exist for Clean Water in NERO, NWRO, and SERO, and for Safe Drinking Water in SWRO & NWRO.

FACILITY	INSP PROGRAM	PROGRAM SPECIFIC ID	INSP ID	VIOLATION ID	VIOLATION DATE	VIOLATION CODE	VIOLATION	INSP REGION
RACCOON CREEK STATE PARK	Safe Drinking Water	5040376	3616033	8158820	09/18/2023	C3E	FAILURE TO IMPLEMENT A FILTER BED EVALUATION PROGRAM	SWRO
RACCOON CREEK STATE PARK	Safe Drinking Water	5040376	3616033	8158822	09/18/2023	B8A	CHRONIC FAILURE TO MONITOR	SWRO

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RACCOON CREEK STATE PARK	Safe Drinking Water	5040376	3616033	8158823	09/18/2023	C3F	FAILURE TO TEST ALARM AND SHUTDOWN CAPABILITIES OR RESPOND TO ALARM AND SHUTDOWN EQUIPMENT FAILURES	SWRO
RACCOON CREEK STATE PARK	Safe Drinking Water	5040376	3616033	8158824	09/18/2023	C9	EXCEEDANCE OF A SECONDARY MCL	SWRO
RACCOON CREEK STATE PARK	Safe Drinking Water	5040376	3616033	8158825	09/18/2023	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	SWRO
RACCOON CREEK STATE PARK	Safe Drinking Water	5040376	3616033	8158826	09/18/2023	C1A	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	SWRO
RACCOON CREEK STATE PARK	Safe Drinking Water	5040376	3616033	8158827	09/18/2023	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	SWRO
RACCOON CREEK STATE PARK	Safe Drinking Water	5040376	3616033	8158828	09/18/2023	D3	FAILURE TO ACCURATELY REPORT DATA	SWRO
RACCOON CREEK STATE PARK	Safe Drinking Water	5040376	3715883	8176128	02/22/2024	B6C	CHRONIC FAILURE TO REPORT	SWRO
RACCOON CREEK STATE PARK	Safe Drinking Water	5040376	3715883	8176129	02/22/2024	B8A	CHRONIC FAILURE TO MONITOR	SWRO
OHIOPYLE ST PK	Safe Drinking Water	5260800	3562653	996961	06/01/2023	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	SWRO
LAUREL RIDGE STATE PARK	Safe Drinking Water	5260856	3295585	939255	12/16/2021	C1A	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	SWRO
LAUREL RIDGE STATE PARK	Safe Drinking Water	5260856	3295585	939256	12/16/2021	C1A	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	SWRO
LAUREL RIDGE STATE PARK	Safe Drinking Water	5260856	3311857	943058	01/19/2022	24	FAILED TO MONITOR OR REPORT THE REQUIRED NUMBER OF TOTAL COLIFORM SAMPLES	SWRO
COOK FOREST STATE PARK	Safe Drinking Water	6160800	3777709	8190222	05/23/2024	C1A	FAILURE TO MEET DESIGN AND	NWRO

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							CONSTRUCTION STANDARDS	
COOK FOREST STATE PARK	Safe Drinking Water	6160800	3777709	8190223	05/23/2024	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	NWRO
COOK FOREST STATE PARK	Safe Drinking Water	6160800	3777709	8190224	05/23/2024	C1A	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	NWRO
COOK FOREST STATE PARK	Safe Drinking Water	6160800	3777709	8190225	05/23/2024	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	NWRO
COOK FOREST STATE PARK	Safe Drinking Water	6160800	3777709	8190226	05/23/2024	C9	EXCEEDANCE OF A SECONDARY MCL	NWRO
COOK FOREST STATE PARK	Safe Drinking Water	6160800	3777709	8190227	05/23/2024	C1A	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	NWRO
COOK FOREST STATE PARK	Safe Drinking Water	6160800	3777709	8190228	05/23/2024	C1A	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	NWRO
COOK FOREST STATE PARK	Safe Drinking Water	6160800	3777709	8190229	05/23/2024	C1A	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	NWRO
COOK FOREST STATE PARK	Safe Drinking Water	6160800	3777709	8190230	05/23/2024	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	NWRO
PYMATUNING WATERFOWL MUSEUM	Safe Drinking Water	6201072	3330681	947059	03/10/2022	A1	CIRCUMSTANCES EXIST WHICH ADVERSELY AFFECT THE QUANTITY OR QUALITY OF WATER	NWRO
PYMATUNING WATERFOWL MUSEUM	Safe Drinking Water	6201072	3330681	947060	03/10/2022	C1F	CROSS-CONNECTIONS EXIST WITHOUT PROPER BACKFLOW PROTECTION	NWRO
PSP ESPYVILLE LAUNCH	Safe Drinking Water	6201100	3381568	959738	06/22/2022	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	NWRO
PYMATUNING SP SHELTER #9	Safe Drinking Water	6201161	3797024	8194338	07/03/2024	C1A	FAILURE TO MEET DESIGN AND	NWRO

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							CONSTRUCTION STANDARDS	
PYMATUNING SP SHELTER #9	Safe Drinking Water	6201161	3797024	8194339	07/03/2024	B6A	OTHER VIOLATIONS DEEMED TO BE SIGNIFICANT DEFICIENCIES	NWRO
PYMATUNING SP SHELTER #9	Safe Drinking Water	6201161	3797024	8194340	07/03/2024	C1A	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	NWRO
PYMATUNING SP SHELTER #9	Safe Drinking Water	6201161	3797024	8194341	07/03/2024	B6A	OTHER VIOLATIONS DEEMED TO BE SIGNIFICANT DEFICIENCIES	NWRO
PYMATUNING SP SHELTER #9	Safe Drinking Water	6201161	3797024	8194342	07/03/2024	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	NWRO
PYMATUNING SP SHELTER #9	Safe Drinking Water	6201161	3797024	8194343	07/03/2024	C1A	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	NWRO
PSP ESPYVILLE LIVERY NEW	Safe Drinking Water	6201162	3381842	959782	06/22/2022	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	NWRO
PSP ESPYVILLE LIVERY NEW	Safe Drinking Water	6201162	3381842	959783	06/22/2022	C1A	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	NWRO
PSP ESPYVILLE LIVERY NEW	Safe Drinking Water	6201162	3381842	959784	06/22/2022	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	NWRO
PSP ESPYVILLE LIVERY NEW	Safe Drinking Water	6201162	3381842	959785	06/22/2022	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	NWRO
MCCONNELLS MILL STATE PARK	Safe Drinking Water	6370802	3253439	930330	09/20/2021	C2F	FAILURE TO SAMPLE AT APPROPRIATE LOCATIONS OR FOLLOW SAMPLE COLLECTION PROTOCOLS	NWRO
MCCONNELLS MILL STATE PARK	Safe Drinking Water	6370802	3253439	930331	09/20/2021	C9	EXCEEDANCE OF A SECONDARY MCL	NWRO

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RICKETTS GLEN STATE PRK	WPC NPDES	PA0032115	3076161	893343	09/03/2020	92A.41(A)5	NPDES - Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance	NERO
RICKETTS GLEN STATE PRK	WPC NPDES	PA0032115	3735995	8181153	09/19/2023	92A.41(A)5	NPDES - Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance	NERO
MORaine STATE PARK	WPC NPDES	PA0032531	3725777	8178892	03/11/2024	CSL611	CSL - Failure to comply with terms and conditions of a WQM permit	NWRO
WASHINGTON CROSSING HISTORICAL PARK UPPER WWTP	WPC NPDES	PA0042978	3425102	972316	09/20/2022	92A.61(G)	NPDES - Failure to use a format or process required by DEP for self-monitoring results	SERO
WASHINGTON CROSSING HISTORICAL PARK LOWER WWTP	WPC NPDES	PA0051268	3350012	952048	04/14/2022	92A.41(A)12B	NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports	SERO
WASHINGTON CROSSING HISTORICAL PARK LOWER WWTP	WPC NPDES	PA0051268	3350012	952049	04/14/2022	92A.61(F)1	NPDES - Failure to properly document monitoring activities and results	SERO

**Enforcement Summary:**

No enforcements executed during review period

**Effluent Violation Summary:**

<u>MON PD</u>	<u>PARAMETER</u>	<u>SAMPL E</u>	<u>PERMI T</u>	<u>UNIT</u>	<u>STAT BASE COD E</u>	<u>FACILITY COMMENTS</u>
Oct-24	Total Residual Chlorine (TRC)	0.08	0.01	mg/L	Average Monthly	Needs UV Treatment
Oct-24	Total Residual Chlorine (TRC)	1.12	0.02	mg/L	Instantaneous Maximum	Needs UV Treatment
Aug-24	Fecal Coliform	1553	1000	No./100 ml	Instantaneous Maximum	
Aug-24	Fecal Coliform	720	200	No./100 ml	Geometric Mean	
Aug-24	Total Residual Chlorine (TRC)	0.014	0.01	mg/L	Average Monthly	

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Aug-24	Total Residual Chlorine (TRC)	0.05	0.02	mg/L	Instantaneous Maximum	
Jul-24	Dissolved Oxygen	4.92	5	mg/L	Minimum	
Jul-24	Total Residual Chlorine (TRC)	0.08	0.02	mg/L	Instantaneous Maximum	Need UV disinfection
Jun-24	Dissolved Oxygen	4.64	5	mg/L	Minimum	
Jun-24	Total Residual Chlorine (TRC)	0.03	0.01	mg/L	Average Monthly	Needs UV Light
Jun-24	Total Residual Chlorine (TRC)	0.5	0.02	mg/L	Instantaneous Maximum	Need UV Light
May-24	Total Residual Chlorine (TRC)	0.03	0.01	mg/L	Average Monthly	
May-24	Total Residual Chlorine (TRC)	0.17	0.02	mg/L	Instantaneous Maximum	
Apr-24	Total Residual Chlorine (TRC)	0.22	0.01	mg/L	Average Monthly	Extreme Rain Event
Apr-24	Total Residual Chlorine (TRC)	0.95	0.02	mg/L	Instantaneous Maximum	Extreme Rain Event
Mar-24	Total Residual Chlorine (TRC)	0.04	0.01	mg/L	Average Monthly	
Mar-24	Total Residual Chlorine (TRC)	0.14	0.02	mg/L	Instantaneous Maximum	
Feb-24	Total Residual Chlorine (TRC)	0.05	0.02	mg/L	Instantaneous Maximum	
Feb-24	Total Suspended Solids	11.5	10	mg/L	Average Monthly	
Jan-24	Total Residual Chlorine (TRC)	0.03	0.01	mg/L	Average Monthly	
Jan-24	Total Residual Chlorine (TRC)	0.28	0.02	mg/L	Instantaneous Maximum	
Jan-24	Total Suspended Solids	11.5	10	mg/L	Average Monthly	
Dec-23	Total Residual Chlorine (TRC)	0.04	0.02	mg/L	Instantaneous Maximum	
Nov-23	Carbonaceous Biochemical Oxygen Demand (CBOD5)	10.54	10	mg/L	Average Monthly	DEP Lab Cancelled a sample.
Nov-23	Total Residual Chlorine (TRC)	0.05	0.01	mg/L	Average Monthly	
Nov-23	Total Residual Chlorine (TRC)	0.55	0.02	mg/L	Instantaneous Maximum	
Oct-23	Dissolved Oxygen	2.88	5	mg/L	Minimum	
Oct-23	Total Residual Chlorine (TRC)	0.02	0.01	mg/L	Average Monthly	
Oct-23	Total Residual Chlorine (TRC)	0.18	0.02	mg/L	Instantaneous Maximum	
Sep-23	Dissolved Oxygen	1.08	5	mg/L	Minimum	
Sep-23	Total Residual Chlorine (TRC)	0.09	0.01	mg/L	Average Monthly	

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Sep-23	Total Residual Chlorine (TRC)	2.2	0.02	mg/L	Instantaneous Maximum
Aug-23	Dissolved Oxygen	4.37	5	mg/L	Minimum
Aug-23	Total Residual Chlorine (TRC)	0.08	0.02	mg/L	Instantaneous Maximum
Jul-23	Fecal Coliform	6400	1000	No./100 ml	Instantaneous Maximum
Jul-23	Total Residual Chlorine (TRC)	0.03	0.01	mg/L	Average Monthly
Jul-23	Total Residual Chlorine (TRC)	0.16	0.02	mg/L	Instantaneous Maximum
Jun-23	Total Residual Chlorine (TRC)	0.02	0.01	mg/L	Average Monthly
Jun-23	Total Residual Chlorine (TRC)	0.12	0.02	mg/L	Instantaneous Maximum
May-23	Dissolved Oxygen	3.88	5	mg/L	Minimum
May-23	Total Residual Chlorine (TRC)	0.08	0.01	mg/L	Average Monthly
May-23	Total Residual Chlorine (TRC)	0.84	0.02	mg/L	Instantaneous Maximum
Apr-23	Total Residual Chlorine (TRC)	0.04	0.01	mg/L	Average Monthly
Apr-23	Total Residual Chlorine (TRC)	0.07	0.02	mg/L	Instantaneous Maximum
Apr-23	Total Suspended Solids	11.5	10	mg/L	Average Monthly
Mar-23	Total Residual Chlorine (TRC)	0.04	0.01	mg/L	Average Monthly
Mar-23	Total Residual Chlorine (TRC)	0.13	0.02	mg/L	Instantaneous Maximum
Mar-23	Total Suspended Solids	18	10	mg/L	Average Monthly
Feb-23	Total Residual Chlorine (TRC)	0.05	0.01	mg/L	Average Monthly
Feb-23	Total Residual Chlorine (TRC)	0.44	0.02	mg/L	Instantaneous Maximum
Feb-23	Total Suspended Solids	23.5	10	mg/L	Average Monthly
Feb-23	Total Suspended Solids	24	20	mg/L	Instantaneous Maximum
Jan-23	Total Residual Chlorine (TRC)	0.04	0.01	mg/L	Average Monthly
Jan-23	Total Residual Chlorine (TRC)	0.32	0.02	mg/L	Instantaneous Maximum
Jan-23	Total Suspended Solids	11.5	10	mg/L	Average Monthly
Dec-22	Total Residual Chlorine (TRC)	0.02	0.01	mg/L	Average Monthly
Dec-22	Total Residual Chlorine (TRC)	0.1	0.02	mg/L	Instantaneous Maximum

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Nov-22	Total Residual Chlorine (TRC)	0.03	0.01	mg/L	Average Monthly	
Nov-22	Total Residual Chlorine (TRC)	0.11	0.02	mg/L	Instantaneous Maximum	
Oct-22	Total Residual Chlorine (TRC)	0.13	0.01	mg/L	Average Monthly	
Oct-22	Total Residual Chlorine (TRC)	0.75	0.02	mg/L	Instantaneous Maximum	
Sep-22	Dissolved Oxygen	3.25	5	mg/L	Minimum	
Sep-22	Fecal Coliform	2000	1000	No./100 ml	Instantaneous Maximum	Sampled 2 more times to get the average down and to confirm why the sample result was so high.
Sep-22	Total Residual Chlorine (TRC)	0.04	0.01	mg/L	Average Monthly	
Sep-22	Total Residual Chlorine (TRC)	0.14	0.02	mg/L	Instantaneous Maximum	
Aug-22	Dissolved Oxygen	1.83	5	mg/L	Minimum	
Aug-22	Total Residual Chlorine (TRC)	0.08	0.01	mg/L	Average Monthly	
Aug-22	Total Residual Chlorine (TRC)	1.28	0.02	mg/L	Instantaneous Maximum	
Jul-22	Total Residual Chlorine (TRC)	0.03	0.01	mg/L	Average Monthly	
Jul-22	Total Residual Chlorine (TRC)	0.22	0.02	mg/L	Instantaneous Maximum	
Jun-22	Dissolved Oxygen	4.67	5	mg/L	Minimum	
Jun-22	Total Residual Chlorine (TRC)	0.11	0.01	mg/L	Average Monthly	
Jun-22	Total Residual Chlorine (TRC)	0.91	0.02	mg/L	Instantaneous Maximum	
May-22	Total Residual Chlorine (TRC)	0.11	0.01	mg/L	Average Monthly	
May-22	Total Residual Chlorine (TRC)	1.54	0.02	mg/L	Instantaneous Maximum	
Apr-22	Total Residual Chlorine (TRC)	0.13	0.01	mg/L	Average Monthly	
Apr-22	Total Residual Chlorine (TRC)	1.13	0.02	mg/L	Instantaneous Maximum	
Mar-22	Total Residual Chlorine (TRC)	0.053	0.01	mg/L	Average Monthly	
Mar-22	Total Residual Chlorine (TRC)	0.56	0.02	mg/L	Instantaneous Maximum	
Mar-22	Total Suspended Solids	16	10	mg/L	Average Monthly	
Feb-22	Total Residual Chlorine (TRC)	0.08	0.01	mg/L	Average Monthly	
Feb-22	Total Residual Chlorine (TRC)	0.21	0.02	mg/L	Instantaneous Maximum	

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Feb-22	Total Suspended Solids	30.5	20	mg/L	Instantaneous Maximum	
Feb-22	Total Suspended Solids	32	10	mg/L	Average Monthly	
Jan-22	Total Residual Chlorine (TRC)	0.1	0.01	mg/L	Average Monthly	
Jan-22	Total Residual Chlorine (TRC)	0.67	0.02	mg/L	Instantaneous Maximum	
Jan-22	Total Suspended Solids	12.5	10	mg/L	Average Monthly	
Dec-21	Total Residual Chlorine (TRC)	0.09	0.02	mg/L	Instantaneous Maximum	
Dec-21	Total Suspended Solids	13	10	mg/L	Average Monthly	
Nov-21	Carbonaceous Biochemical Oxygen Demand (CBOD5)	16.61	10	mg/L	Average Monthly	
Nov-21	Total Residual Chlorine (TRC)	0.19	0.01	mg/L	Average Monthly	
Nov-21	Total Residual Chlorine (TRC)	5.6	0.02	mg/L	Instantaneous Maximum	
Nov-21	Total Suspended Solids	< 15.0	10	mg/L	Average Monthly	
Oct-21	Carbonaceous Biochemical Oxygen Demand (CBOD5)	17.24	10	mg/L	Average Monthly	Possible solids in effluent
Oct-21	Total Residual Chlorine (TRC)	0.04	0.02	mg/L	Instantaneous Maximum	
Oct-21	Total Suspended Solids	15.5	10	mg/L	Average Monthly	
Sep-21	Total Residual Chlorine (TRC)	0.017	0.01	mg/L	Average Monthly	
Sep-21	Total Residual Chlorine (TRC)	0.08	0.02	mg/L	Instantaneous Maximum	
Aug-21	Dissolved Oxygen	4.78	5	mg/L	Minimum	
Aug-21	Total Residual Chlorine (TRC)	0.02	0.01	mg/L	Average Monthly	
Aug-21	Total Residual Chlorine (TRC)	0.23	0.02	mg/L	Instantaneous Maximum	
Aug-21	Total Suspended Solids	11.5	10	mg/L	Average Monthly	Denitrification
Jul-21	Fecal Coliform	243.72	200	No./100 ml	Geometric Mean	
Jul-21	Total Residual Chlorine (TRC)	0.19	0.02	mg/L	Instantaneous Maximum	
Jun-21	Total Residual Chlorine (TRC)	0.21	0.01	mg/L	Average Monthly	
Jun-21	Total Residual Chlorine (TRC)	6	0.02	mg/L	Instantaneous Maximum	
May-21	Total Residual Chlorine (TRC)	0.08	0.01	mg/L	Average Monthly	Added dichlorination tablets.

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May-21	Total Residual Chlorine (TRC)	1.56	0.02	mg/L	Instantaneous Maximum	Added dichlorination tablets.
Apr-21	Total Residual Chlorine (TRC)	0.033	0.01	mg/L	Average Monthly	Replaced Dichlorination tablets.
Apr-21	Total Residual Chlorine (TRC)	0.2	0.02	mg/L	Instantaneous Maximum	Replaced Dichlorination tablets.
Mar-21	Total Residual Chlorine (TRC)	0.08	0.02	mg/L	Instantaneous Maximum	
Mar-21	Total Suspended Solids	18.5	10	mg/L	Average Monthly	
Mar-21	Total Suspended Solids	21	20	mg/L	Instantaneous Maximum	
Feb-21	pH	3.8	6	S.U.	Minimum	The pH probe for our meter malfunctioned causing this violation. The pH probe has since been replaced.
Feb-21	Total Suspended Solids	47	10	mg/L	Average Monthly	The extreme temperatures coupled with a weak mlss caused this violation.
Feb-21	Total Suspended Solids	55	20	mg/L	Instantaneous Maximum	The extreme temperatures coupled with a weak mlss caused this violation.
Jan-21	Total Residual Chlorine (TRC)	0.04	0.01	mg/L	Average Monthly	Replaced Dechlor tablets.
Jan-21	Total Residual Chlorine (TRC)	0.41	0.02	mg/L	Instantaneous Maximum	Replaced Dechlor tablets.
Jan-21	Total Suspended Solids	23	10	mg/L	Average Monthly	The extreme temperatures coupled with a weak mlss caused this violation.
Jan-21	Total Suspended Solids	23	20	mg/L	Instantaneous Maximum	The extreme temperatures coupled with a weak mlss caused this violation.
Dec-20	Total Residual Chlorine (TRC)	0.03	0.01	mg/L	Average Monthly	
Dec-20	Total Residual Chlorine (TRC)	0.23	0.02	mg/L	Instantaneous Maximum	
Nov-20	Total Residual Chlorine (TRC)	0.06	0.02	mg/L	Instantaneous Maximum	
Oct-20	Total Residual Chlorine (TRC)	0.15	0.01	mg/L	Average Monthly	Replaced dechlorination tablets.
Oct-20	Total Residual Chlorine (TRC)	1.07	0.02	mg/L	Instantaneous Maximum	Replaced dechlorination tablets.
Sep-20	Ammonia-Nitrogen	2	1.5	mg/L	Average Monthly	An infestation of blood worms/midge flies caused the dissolved oxygen to be lower than the permit limit. The plant operators are currently working on a solution for the problem.

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Sep-20	Ammonia-Nitrogen	3.7	3	mg/L	Instantaneous Maximum	An infestation of blood worms/midge flies caused the dissolved oxygen to be lower than the permit limit. The plant operators are currently working on a solution for the problem.
Sep-20	Dissolved Oxygen	4.7	5	mg/L	Minimum	An infestation of blood worms/midge flies caused the dissolved oxygen to be lower than the permit limit. The plant operators are currently working on a solution for the problem.
Sep-20	Total Residual Chlorine (TRC)	0.11	0.01	mg/L	Average Monthly	
Sep-20	Total Residual Chlorine (TRC)	1.14	0.02	mg/L	Instantaneous Maximum	
Sep-20	Total Suspended Solids	16.5	10	mg/L	Average Monthly	An infestation of blood worms/midge flies caused the dissolved oxygen to be lower than the permit limit. The plant operators are currently working on a solution for the problem.
Aug-20	Fecal Coliform	225	200	No./100 ml	Geometric Mean	
Aug-20	Total Residual Chlorine (TRC)	0.08	0.01	mg/L	Average Monthly	
Aug-20	Total Residual Chlorine (TRC)	1.6	0.02	mg/L	Instantaneous Maximum	
Jul-20	Fecal Coliform	607	200	No./100 ml	Geometric Mean	
Jul-20	Total Residual Chlorine (TRC)	0.06	0.01	mg/L	Average Monthly	
Jul-20	Total Residual Chlorine (TRC)	1.22	0.02	mg/L	Instantaneous Maximum	
Jun-20	Fecal Coliform	386	200	No./100 ml	Geometric Mean	The high fecal coliform was caused by an unexpected rain event.
Jun-20	Total Residual Chlorine (TRC)	0.28	0.01	mg/L	Average Monthly	The high TRC was caused by an unexpected rain event.
Jun-20	Total Residual Chlorine (TRC)	7.6	0.02	mg/L	Instantaneous Maximum	The high TRC was caused by an unexpected rain event.
Jun-20	Total Suspended Solids	14	10	mg/L	Average Monthly	The high TSS was caused by an unexpected rain event.
May-20	Total Residual Chlorine (TRC)	0.33	0.01	mg/L	Average Monthly	
May-20	Total Residual Chlorine (TRC)	3.7	0.02	mg/L	Instantaneous Maximum	
Apr-20	Total Residual Chlorine (TRC)	0.72	0.01	mg/L	Average Monthly	
Apr-20	Total Residual Chlorine (TRC)	8.8	0.02	mg/L	Instantaneous Maximum	
Apr-20	Total Suspended Solids	13	10	mg/L	Average Monthly	

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Mar-20	Total Residual Chlorine (TRC)	0.1	0.01	mg/L	Average Monthly	
Mar-20	Total Residual Chlorine (TRC)	0.59	0.02	mg/L	Instantaneous Maximum	
Feb-20	Total Residual Chlorine (TRC)	0.22	0.01	mg/L	Average Monthly	Added dechlor tablets.
Feb-20	Total Residual Chlorine (TRC)	1.52	0.02	mg/L	Instantaneous Maximum	Added dechlor tablets.
Jan-20	Total Residual Chlorine (TRC)	0.05	0.01	mg/L	Average Monthly	The dechlorination tablets were replaced.
Jan-20	Total Residual Chlorine (TRC)	0.32	0.02	mg/L	Instantaneous Maximum	The dechlorination tablets were replaced.
Dec-19	Total Residual Chlorine (TRC)	0.21	0.01	mg/L	Average Monthly	Increased the use of dechlorination tablets.
Dec-19	Total Residual Chlorine (TRC)	2.2	0.02	mg/L	Instantaneous Maximum	Increased the use of dechlorination tablets.

**Compliance Status:** The facility currently has no open violations with Clean Water Program in Southwest Region. Several effluent exceedances have occurred since the most recent inspection which operations will continue to monitor.

**Completed by:** Amanda Illar **Completed date:** 12/18/24

Compliance History

DMR Data for Outfall 001 (from November 1, 2023 to October 31, 2024)

Parameter	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23
Flow (MGD) Average Monthly	0.006	0.005	0.0078	0.012	0.0116	0.026	0.012	0.0084	0.0094	0.011	0.0055	0.0053
pH (S.U.) Minimum	7.49	6.50	6.99	7.42	7.32	7.37	8.07	7.59	7.31	8.09	8.02	7.37
pH (S.U.) Maximum	8.46	8.37	8.29	8.89	8.59	8.59	8.67	8.50	8.76	8.77	8.89	8.51
DO (mg/L) Minimum	5.88	5.01	5.19	4.92	4.64	6.07	7.56	5.89	6.11	9.78	6.47	6.11
TRC (mg/L) Average Monthly	0.08	0.02	0.014	0.001	0.03	0.03	0.22	0.04	0.01	0.03	0.01	0.05
TRC (mg/L) Instantaneous Maximum	1.12	0.23	0.05	0.08	0.50	0.17	0.95	0.14	0.05	0.28	0.04	0.55
CBOD5 (mg/L) Average Monthly	5.5	4.25	1.75	1.9	1.6	1.9	1.75	2.75	8.75	1.24	2.27	10.54
CBOD5 (mg/L) Instantaneous Maximum	8.0	7.0	2.0	2.0	1.7	2.0	2.0	4.0	16	0.98	3.21	10.54
TSS (mg/L) Average Monthly	4.0	6.0	3.5	2.5	2.0	< 2.0	10.0	6.0	11.5	11.5	< 8.0	< 8.0
TSS (mg/L) Instantaneous Maximum	5.0	4.0	5.0	3.0	2.0	< 2.0	14.0	6.0	14	14.0	< 8.0	< 8.0
Fecal Coliform (No./100 ml) Geometric Mean	3.47	28.54	720	48.7	9.08	< 1.0	1.0	4.0	< 1.0	3.16	< 10.0	20.0
Fecal Coliform (No./100 ml) Instantaneous Maximum	12.1	47.1	1553	54.6	9.6	< 1.0	1.0	16.0	< 1.0	< 10.0	< 10.0	40.0
Total Nitrogen (mg/L) Daily Maximum											95.09	
Ammonia (mg/L) Average Monthly	0.11	0.22	< 0.10	0.11	0.17	< 0.10	< 0.10	< 0.10	< 0.10	0.06	0.03	0.075
Ammonia (mg/L) Instantaneous Maximum	0.12	0.35	< 0.10	0.12	0.24	< 0.10	< 0.10	< 0.10	< 0.10	0.10	0.05	0.09

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**NPDES Permit No. PA0032425**

Total Phosphorus (mg/L) Daily Maximum											13.67	
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**Development of Effluent Limitations**

<b>Outfall No.</b>	001	<b>Design Flow (MGD)</b>	0.04
<b>Latitude</b>	39° 52' 45.00"	<b>Longitude</b>	-79° 29' 32.00"
<b>Wastewater Description:</b>	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 <sub>5</sub>	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	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: The discharge was evaluated using WQM 7.0 Version 1.1 (Attachment 2) to evaluate CBOD<sub>5</sub>, ammonia nitrogen, and dissolved oxygen. The modeling results show the above technology based effluent limitations are appropriate for pH and Fecal Coliform.

To determine applicability of standards associated with dry streams, application managers will generally consider the following:

1. If the stream flow (Q7-10) to wastewater flow (design flow) ratio is less than 3:1, proceed to paragraph 2, otherwise skip to the next section.
2. For new or expanding discharges, apply the more stringent treatment requirements in DEP's Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers (391-2000-014).
3. For existing discharges, if the more stringent treatment requirements cannot be achieved, do not apply the standards in DEP guidance (391-2000-014) unless the receiving stream is impaired and the point source discharge contributes to the impairment. If this is the case, apply the more stringent treatment requirements and provide a schedule to meet final limitations not exceeding three years in the draft permit. Do not approve design flow increases without applying the more stringent treatment requirements where the discharge meets the criteria in the guidance for a dry stream.

DMR data confirms the existing discharger cannot meet the more stringent treatment requirements discussed above and the receiving stream is not impaired. Do not approve design flow increases without applying the more stringent treatment requirements where the discharge meets the criteria in the guidance for a dry stream (Section I.C, SOP No. BCW-PMT-033, Establishing Effluent Limitations for Individual Sewage Permits).

### **Water Quality-Based Limitations**

The following limitations were determined through water quality modeling (output files attached):

Parameter	Limit (mg/l)	SBC	Model
CBOD <sub>5</sub>	23.46	Average Monthly	WQM 7.0 Version 1.1
Ammonia-Nitrogen (May 1 to Oct 31)	1.93	Average Monthly	WQM 7.0 Version 1.1
Dissolved Oxygen	5.0	Ins Min	WQM 7.0 Version 1.1
Total Residual Chlorine	0.01	Average Monthly	TRC_CALC

Due to anti-backsliding, the previously permitted limits for CBOD<sub>5</sub> of 10 mg/L, TSS of 10 mg/L, ammonia-nitrogen (Nov 1 to Apr 30) of 2.5 mg/L, ammonia-nitrogen (May 1 to Oct 31) of 1.5 mg/L, and TRC IMAX of 0.02 mg/L will be re-imposed. These limits were based upon regulations, guidance, and models that were valid at the time of permit issuance.

### **Best Professional Judgment (BPJ) Limitations**

Comments: N/A

### **Anti-Backsliding**

Section 402(o) of the Clean Water Act (CWA), enacted in the Water Quality Act of 1987, establishes anti-backsliding rules governing two situations. The first situation occurs when a permittee seeks to revise a Technology-Based effluent limitation based on BPJ to reflect a subsequently promulgated effluent guideline which is less stringent. The second situation addressed by Section 402(o) arises when a permittee seeks relaxation of an effluent limitation which is based upon a State treatment standard of water quality standard.

Previous limits can be used pursuant to EPA's anti-backsliding regulation 40 CFR 122.44 (l) Reissued permits. (1) Except as provided in paragraph (l)(2) of this section when a permit is renewed or reissued. Interim effluent limitations, standards or conditions must be at least as stringent as the final effluent limitations, standards, or conditions in the previous permit (unless the circumstances on which the previous permit was based have materially and substantially changed since the time the permit was issued and would constitute cause for permit modification or revocation and reissuance under §122.62). (2) In the case of effluent limitations established on the basis of Section 402(a)(1)(B) of the CWA, a permit may not be renewed, reissued, or modified on the basis of effluent guidelines promulgated under section 304(b) subsequent to the original issuance of such permit, to contain effluent limitations which are less stringent than the comparable effluent limitations in the previous permit.

Due to anti-backsliding, the previously permitted limits for CBOD<sub>5</sub> of 10 mg/L, TSS of 10 mg/L, ammonia-nitrogen (Nov 1 to Apr 30) of 2.5 mg/L, ammonia-nitrogen (May 1 to Oct 31) of 1.5 mg/L, and TRC IMAX of 0.02 mg/L will be re-imposed. These limits were based upon regulations, guidance, and models that were valid at the time of permit issuance.

### **Additional Considerations**

Monitoring frequency for the proposed effluent limits are based upon Table 6-3, Self-Monitoring Requirements for Sewage Dischargers, from the Departments Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits (Document No. 386-0400-001).

Sewage discharges will include monitoring, at a minimum, for *E. Coli*, in new and reissued permits, with a monitoring frequency of 1/year for design flows 0.002 – 0.05 MGD per 25 Pa. Code § 92a.061 and Section I.A, Note 12, SOP No. BCW-PMT-033, Establishing Effluent Limitations for Individual Sewage Permits.

Nutrient monitoring is required to establish the nutrient load from the wastewater treatment facility and the impacts that load may have on the quality of the receiving stream(s). The discharge is to waters not impaired for nutrients. A 1/year monitoring requirement for Total N & Total P has been added to the permit per Chapter 92a.61 and Section I.A, Note 7 & 8, SOP No. BCW-PMT-033, Establishing Effluent Limitations for Individual Sewage Permits.

**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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	2/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.01	XXX	0.02	1/day	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20.0	2/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	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
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	Grab
Ammonia-Nitrogen Nov 1 - Apr 30	XXX	XXX	XXX	2.5	XXX	5.0	2/month	Grab
Ammonia-Nitrogen May 1 - Oct 31	XXX	XXX	XXX	1.5	XXX	3.0	2/month	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001  
Other Comments: N/A

## Attachment 1 – USGS StreamStats Report

### StreamStats Report - PA0032425

Region ID: PA  
Workspace ID: PA20241219160627809000  
Clicked Point (Latitude, Longitude): 39.87879, -79.49145  
Time: 2024-12-19 11:06:48 -0500



[+ Collapse All](#)

#### ➤ Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.21	square miles
ELEV	Mean Basin Elevation	1592	feet

#### ➤ Low-Flow Statistics

##### Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.21	square miles	2.26	1400
ELEV	Mean Basin Elevation	1592	feet	1050	2580

##### Low-Flow Statistics Disclaimers [Low Flow Region 4]

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

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

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.00601	ft <sup>3</sup> /s
30 Day 2 Year Low Flow	0.0127	ft <sup>3</sup> /s
7 Day 10 Year Low Flow	0.0014	ft <sup>3</sup> /s
30 Day 10 Year Low Flow	0.00347	ft <sup>3</sup> /s
90 Day 10 Year Low Flow	0.00817	ft <sup>3</sup> /s

*Low-Flow Statistics Citations*

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

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Application Version: 4.25.0

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1

## Attachment 2 – WQM 7.0 Version 1.1 – Summer Period

### 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
19E	38474	Trib 38474 to Youghiogheny River	<b>0.190</b>	1432.00	0.21	0.00000	0.00	<input checked="" type="checkbox"/>

### Stream Data

Design Cond.	LFY (cfs)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Tributary Temp (°C)	pH	Stream Temp (°C)	pH
Q7-10	0.007	0.00	0.00	0.000	0.000	10.0	0.00	0.00	25.00	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
CAMPGROUND ST	PA0032425	0.0400	0.0000	0.0000	0.000	20.00	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	8.38	0.00	0.00
NH3-N	25.00	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
19E	38474	Trib 38474 to Youghiogheny River	0.010	1115.00	0.23	0.00000	0.00	<input checked="" type="checkbox"/>

#### 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)	pH	Stream Temp (°C)	pH
Q7-10	0.007	0.00	0.00	0.000	0.000	10.0	0.00	0.00	25.00	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**

<u>SWP Basin</u>		<u>Stream Code</u>		<u>Stream Name</u>								
19E		38474		Trib 38474 to Youghiogheny River								
RMI	Stream Flow	PWS With	Net Stream Flow	Disc Analysis Flow	Reach Slope	Depth	Width	W/D Ratio	Velocity	Reach Trav Time	Analysis Temp	Analysis pH
	(cfs)	(cfs)	(cfs)	(cfs)	(ft/ft)	(ft)	(ft)		(fps)	(days)	(°C)	
<b>Q7-10 Flow</b>												
0.190	0.00	0.00	0.00	.0619	0.33354	.534	1.32	2.48	0.09	0.123	20.11	7.00
<b>Q1-10 Flow</b>												
0.190	0.00	0.00	0.00	.0619	0.33354	NA	NA	NA	0.09	0.124	20.07	7.00
<b>Q30-10 Flow</b>												
0.190	0.00	0.00	0.00	.0619	0.33354	NA	NA	NA	0.09	0.122	20.15	7.00

### **WQM 7.0 Modeling Specifications**

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	<input checked="" type="checkbox"/>
WLA Method	EMPR	Use Inputted W/D Ratio	<input type="checkbox"/>
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	<input type="checkbox"/>
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	<input checked="" type="checkbox"/>
D.O. Saturation	90.00%	Use Balanced Technology	<input checked="" type="checkbox"/>
D.O. Goal	5		

### WQM 7.0 Wasteload Allocations

<u>SWP Basin</u>	<u>Stream Code</u>	<u>Stream Name</u>							
19E	38474	Trib 38474 to Youghiogheny River							
<b>NH3-N Acute Allocations</b>									
RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction		
0.190	CAMPGROUND	16.66	16.9	16.66	16.9	0	0		
<b>NH3-N Chronic Allocations</b>									
RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction		
0.190	CAMPGROUND	1.87	1.93	1.87	1.93	0	0		
<b>Dissolved Oxygen Allocations</b>									
RMI	Discharge Name	<u>CBOD5</u>		<u>NH3-N</u>		<u>Dissolved Oxygen</u>		Critical Reach	Percent Reduction
		Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)		
0.19	CAMPGROUND STP	23.46	23.46	1.93	1.93	5	5	0	0

### WQM 7.0 D.O.Simulation

<u>SWP Basin</u>	<u>Stream Code</u>	<u>Stream Name</u>		
19E	38474	Trib 38474 to Youghiogheny River		
<u>RMI</u>	<u>Total Discharge Flow (mgd)</u>	<u>Analysis Temperature (°C)</u>	<u>Analysis pH</u>	
0.190	0.040	20.111	7.000	
<u>Reach Width (ft)</u>	<u>Reach Depth (ft)</u>	<u>Reach WDRatio</u>	<u>Reach Velocity (fps)</u>	
1.324	0.534	2.477	0.089	
<u>Reach CBOD5 (mg/L)</u>	<u>Reach Kc (1/days)</u>	<u>Reach NH3-N (mg/L)</u>	<u>Reach Kn (1/days)</u>	
22.98	1.404	1.88	0.706	
<u>Reach DO (mg/L)</u>	<u>Reach Kr (1/days)</u>	<u>Kr Equation</u>	<u>Reach DO Goal (mg/L)</u>	
5.075	13.764	Owens	5	
<u>Reach Travel Time (days)</u>	<u>Subreach Results</u>			
0.123	<u>TravTime (days)</u>	<u>CBOD5 (mg/L)</u>	<u>NH3-N (mg/L)</u>	<u>D.O. (mg/L)</u>
	0.012	22.58	1.87	5.09
	0.025	22.20	1.85	5.12
	0.037	21.81	1.84	5.15
	0.049	21.44	1.82	5.19
	0.061	21.07	1.80	5.23
	0.074	20.71	1.79	5.27
	0.086	20.35	1.77	5.32
	0.098	20.00	1.76	5.36
	0.111	19.66	1.74	5.41
	0.123	19.32	1.73	5.46

### WQM 7.0 Effluent Limits

<u>SWP Basin</u>		<u>Stream Code</u>	<u>Stream Name</u>				
19E		38474	Trib 38474 to Youghiogheny River				
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)
0.190	CAMPGROUND STP	PA0032425	0.040	CBOD5	23.46		
				NH3-N	1.93	3.86	
				Dissolved Oxygen			5

## Attachment 3 – TRC CALC

PA0032425\_TRC\_CALC

TRC EVALUATION					
Input appropriate values in A3:A9 and D3:D9					
0.0014	= Q stream (cfs)		0.5	= CV Daily	
0.04	= Q discharge (MGD)		0.5	= CV Hourly	
30	= no. samples		1	= AFC_Partial Mix Factor	
0.3	= Chlorine Demand of Stream		1	= CFC_Partial Mix Factor	
0	= Chlorine Demand of Discharge		15	= AFC_Criteria Compliance Time (min)	
0.5	= BAT/BPJ Value		720	= CFC_Criteria Compliance Time (min)	
0	= % Factor of Safety (FOS)			=Decay Coefficient (K)	
Source	Reference	AFC Calculations		Reference	CFC Calculations
TRC	1.3.2.iii	WLA afc = 0.026		1.3.2.iii	WLA cfc = 0.018
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373		5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 0.010		5.1d	LTA_cfc = 0.010
Source	Effluent Limit Calculations				
PENTOXSD TRG	5.1f	AML MULT = 1.231			
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.012		AFC	
		INST MAX LIMIT (mg/l) = 0.039			
WLA afc	$(.019/e(-k*AFC\_tc)) + [(AFC\_Yc*Qs*.019/Qd*e(-k*AFC\_tc))... \\ ...+Xd + (AFC\_Yc*Qs*Xs/Qd)]*(1-FOS/100)$				
LTAMULT afc	$EXP((0.5*LN(cvh^2+1))-2.326*LN(cvh^2+1)^0.5)$				
LTA_afc	wla_afc*LTAMULT_afc				
WLA_cfc	$(.011/e(-k*CFC\_tc) + [(CFC\_Yc*Qs*.011/Qd*e(-k*CFC\_tc))... \\ ...+Xd + (CFC\_Yc*Qs*Xs/Qd)]*(1-FOS/100)$				
LTAMULT_cfc	$EXP((0.5*LN(cvd^2/no\_samples+1))-2.326*LN(cvd^2/no\_samples+1)^0.5)$				
LTA_cfc	wla_cfc*LTAMULT_cfc				
AML MULT	$EXP(2.326*LN((cvd^2/no\_samples+1)^0.5)-0.5*LN(cvd^2/no\_samples+1))$				
AVG MON LIMIT	MIN(BAT_BPJ,MIN(LTA_afc,LTA_cfc)*AML_MULT)				
INST MAX LIMIT	1.5*((av_mon_limit/AML_MULT)/LTAMULT_afc)				