

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0042528
APS ID 936189
Authorization ID 1428430

Applicant and Facility Information

Applicant Name	<u>Margaretta MHP</u>	Facility Name	<u>Margaretta MHP</u>
Applicant Address	<u>1446 Prayer Mission Road</u> <u>York, PA 17406-8624</u>	Facility Address	<u>1446 Prayer Mission Road</u> <u>York, PA 17406-8624</u>
Applicant Contact	<u>Robert Searer</u>	Facility Contact	<u>Robert Searer</u>
Applicant Phone	<u>(717) 880-7169</u>	Facility Phone	<u>(717) 880-7169</u>
Client ID	<u>334264</u>	Site ID	<u>443089</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Lower Windsor Township</u>
Connection Status	<u>No Limitations</u>	County	<u>York</u>
Date Application Received	<u>February 16, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>March 1, 2023</u>	If No, Reason	<u></u>
Purpose of Application	<u>Renewal of Existing NPDES Permit</u>		

Summary of Review

The Margaretta Mobile Home Park (MMHP) has applied to the Pennsylvania Department of Environmental Protection (DEP) for reissuance of its NPDES permit. The permit was last reissued to MMHP on August 30, 2018. The permit expired on August 31, 2023 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.

Sludge use and disposal description and location(s): Hauled offsite by Kauffman Septic Services.

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 Aaron Baar / Permits Section	January 29, 2024
X		Daniel W. Martin Daniel W. Martin, P.E. / Environmental Engineer Manager	February 17, 2024

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.018</u>
Latitude	<u>39° 57' 42.40"</u>	Longitude	<u>-76° 32' 20.05"</u>
Quad Name	<u>Red Lion</u>	Quad Code	<u>1933</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Cabin Creek (WWF)</u>	Stream Code	<u>07848</u>
NHD Com ID	<u>57467617</u>	RMI	<u>5.22</u>
Drainage Area	<u>8.67 mi²</u>	Yield (cfs/mi ²)	<u>0.2249</u>
Q ₇₋₁₀ Flow (cfs)	<u>1.95</u>	Q ₇₋₁₀ Basis	<u>USGS StreamStats</u>
Elevation (ft)	<u>353.87</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>7-I</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>HABITAT MODIFICATION - OTHER THAN HYDROMODIFICATION</u>		
Cause(s) of Impairment	<u>HABITAT ALTERATIONS</u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u>Name</u>		
Nearest Downstream Public Water Supply Intake	<u>The York Water Company</u>		
PWS Waters	<u>Susquehanna River</u>	Flow at Intake (cfs)	<u>UNK</u>
PWS RMI	<u>22.84</u>	Distance from Outfall (mi)	<u>6.6</u>

Changes Since Last Permit Issuance: No changes since the last issuance of the MMHP's NPDES permit.

Drainage Area

The discharge is to Cabin Creek at RMI 5.22. A drainage area upstream of the discharge is determined to be 8.67 sq.mi. according to USGS PA StreamStats available at <https://streamstats.usgs.gov/ss/>.

Stream Flow

According to StreamStats, the watershed has a Q₇₋₁₀ of 1.95 cfs. This information was used to obtain a LFY, a chronic 30-day (Q₃₀₋₁₀) and acute (Q₁₋₁₀) exposure stream flows for the discharge point as follows (Guidance No. 391-2000-023).

$$\begin{aligned}
 Q_{7-10} &= 1.95 \text{ cfs} \\
 Q_{30-10} &= 1.36 * 1.95 \text{ cfs} = 2.652 \text{ cfs} \\
 Q_{1-10} &= 0.64 * 1.95 \text{ cfs} = 1.248 \text{ cfs} \\
 LFY &= 1.95 \text{ cfs} / 8.67 \text{ mi}^2 = 0.2249 \text{ cfs/mi}^2
 \end{aligned}$$

Cabin Creek

25 Pa Code §93.9 classifies the receiving water, Cabin Creek, with a WWF/MF Existing Use designation. No special protection waters are impacted by this discharge. The discharge is in a stream segment listed as not attaining use; the cause of the impairment has been identified as habitat modifications (see *Local Watershed TMDL* below). 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.

Local Watershed Total Maximum Daily Loads (TMDLs)

According to PA's 2022 integrated water quality monitoring and assessment report, Cabin Creek in the vicinity of the proposed point of discharge is impaired for habitat modification. The impairment is listed as Category 4c in the 2022

integrated report; indicating that Cabin Creek is not impaired by a pollutant and is not requiring a TMDL. No local watershed TMDL has therefore been taken into consideration during this review.

Public Water Supply Intake

The nearest downstream public water supply intake is the York Water Company intake on the South Branch Cabin Creek. Considering the distance and nature, the discharge is not expected to affect the water supply.

Class A Wild Trout Streams

The receiving stream is not a Class A Wild Trout stream; therefore, no Class A Wild Trout Fishery is impacted by this discharge.

Treatment Facility Summary				
Treatment Facility Name: Margaretta MHP				
WQM Permit No.	Issuance Date			
6774422	June 4, 1975			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Hypochlorite	0.018
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.018		Not Overloaded		

The MMHP owns and operates the sanitary wastewater treatment facility located in Lower Windsor Township, York County. The facility only serves the Margaretta MHP, all wastes are residential in nature, and all sewer systems are 100% separated. With having both annual average design flow and hydraulic design capacity of 0.018 MGD, this facility utilizes an extended aeration system consisting of a comminutor (1), bar screen (1), aeration tank (1), clarifier (1), dosing tank (1), sand filter (2), chlorine contact tank, and outfall structure to Cabin Creek. The facility utilizes a sludge holding tank. Hypochlorite is used for disinfection and lime is used for pH control.

Margaretta MHP

Compliance History	
Summary of DMRs:	DMR results for the past year are presented below.
Summary of Inspections:	<p>Since the last renewal of the facility's NPDES permit, the following inspections have been logged:</p> <p>December 9, 2020: A partial inspection (due to the pandemic) was conducted by Heather Dock. It was noted that the facility was incorrectly documenting some values in their DMRs. There were two effluent violations reported in 2020. A NH3-N monthly average violation occurred in May, while a fecal coliform instantaneous maximum violation occurred in June. Mr. Searer said he wasn't getting enough air to the plant, which caused the NH3-N violation and he said the plant quickly turned around.</p>

Other Comments: As of January 29, 2024, there are no open violations associated with this facility.

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	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.50	XXX	1.6	1/day	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50	2/month	8-Hr Composite
TSS	XXX	XXX	XXX	30.0	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
Nitrate-Nitrite	XXX	XXX	XXX	Report	XXX	XXX	2/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	Report	XXX	XXX	Report	XXX	XXX	2/month	8-Hr Composite
Ammonia May 1 - Oct 31	Report	XXX	XXX	11.0	XXX	23	2/month	8-Hr Composite
Ammonia (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
TKN	XXX	XXX	XXX	Report	XXX	XXX	2/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	2/month	8-Hr Composite

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Total Phosphorus (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation

Compliance Sampling Location: 001

Compliance History

DMR Data for Outfall 001 (from December 1, 2022 to November 30, 2023)

Parameter	NOV-23	OCT-23	SEP-23	AUG-23	JUL-23	JUN-23	MAY-23	APR-23	MAR-23	FEB-23	JAN-23	DEC-22
Flow (MGD) Average Monthly	0.0054	0.0048	0.0046	0.0056	0.0055	0.0049	0.0049	0.0048	0.0049	0.0051	0.0056	0.0064
Flow (MGD) Daily Maximum	0.0144	0.0074	0.0117	0.0122	0.0121	0.0105	0.0113	0.007	0.0094	0.0066	0.0098	0.0109
pH (S.U.) Instantaneous Minimum	6.19	6.11	6.7	6.7	6.7	6.8	6.9	6.8	6.4	6.8	6.8	7.0
pH (S.U.) Instantaneous Maximum	7.89	7.2	7.1	7.2	7.2	7.3	7.3	7.3	7.3	7.3	7.6	7.5
DO (mg/L) Instantaneous Minimum	8.0	7.28	6.8	6.3	5.9	8.3	8.4	8.0	8.3	7.2	8.0	8.4
TRC (mg/L) Average Monthly	0.39	0.38	0.28	0.34	0.37	0.34	0.29	0.30	0.23	0.15	0.29	0.29
TRC (mg/L) Instantaneous Maximum	0.85	1.02	1.08	1.29	1.38	1.2	1.04	1.03	1.01	0.38	1.12	0.99
CBOD5 (mg/L) Average Monthly	4.0	< 6.0	< 2.4	< 2.4	< 2.5	< 2.4	< 2.9	3.7	6.0	3.8	< 2.4	< 2.4
CBOD5 (mg/L) Instantaneous Maximum	6.3	8.6	< 2.4	< 2.4	2.5	< 2.4	3.4	3.9	6.8	4.1	< 2.4	< 2.4
TSS (mg/L) Average Monthly	11.0	5.0	3.0	3.5	4.0	2.5	12.5	19.0	23.5	15.5	9.0	3.5

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TSS (mg/L) Instantaneous Maximum	17.0	7.0	5.0	5.0	4.0	3.0	17.0	27.0	25	21.0	10.0	4.0
Fecal Coliform (No./100 ml) Geometric Mean	< 48	< 1.0	< 13	< 1	413	7	< 5	7	214	547	< 2	7
Fecal Coliform (No./100 ml) Instantaneous Maximum	2420	< 1.0	162	< 1	2420	43	30	9	2420	866	5	26
Nitrate-Nitrite (mg/L) Average Monthly	43.23	44	44.9	38.9	52.9	< 62.4	47.9	60.4	55.4	38.4	< 42.9	< 45.9
Nitrate-Nitrite (lbs) Total Monthly	61	42	47.96	77.84	66.89	< 60.89	55.34	61.96	61.59	46.57	< 67.32	< 67.87
Total Nitrogen (mg/L) Average Monthly	43.23	44	45.4	39.4	53.4	< 62.9	48.4	60.9	59.85	40.1	< 46.55	< 47.845
Total Nitrogen (lbs) Total Monthly	61	42	48.5	78.9	67.5	< 61.4	55.9	62.5	66.5	48.5	< 73.2	< 70.8
Total Nitrogen (lbs) Total Annual			729.8									
Ammonia (lbs/day) Average Monthly	< 0.005	< 0.003	< 0.004	0.009	0.007	0.004	0.004	0.006	0.011	0.023	0.13	0.058
Ammonia (mg/L) Average Monthly	< 0.11	< 0.1	< 0.1	0.15	0.16	0.11	0.11	0.17	0.32	0.57	2.5	1.2
Ammonia (mg/L) Instantaneous Maximum		< 0.1	< 0.1	0.2	0.16	0.12	0.12					
Ammonia (lbs) Total Monthly	0.2	< 0.1	< 0.1	0.3	0.2	0.1	0.1	0.2	0.4	0.6	4.0	1.8
Ammonia (lbs) Total Annual			7.5									
TKN (mg/L) Average Monthly	< 0.52	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	4.45	1.7	< 3.65	1.945
TKN (lbs) Total Monthly	< 0.7	< 0.5	< 0.5	< 1.1	< 0.6	< 0.5	< 0.6	0.5	4.9	1.9	< 5.9	2.9
Total Phosphorus (lbs/day) Average Monthly	0.3	0.2	0.24	0.38	0.29	0.25	0.23	0.23	0.24	0.22	0.27	0.27
Total Phosphorus (mg/L) Average Monthly	4.9	5.3	6.75	4.95	7.0	7.75	6.25	6.75	6.75	5.3	5.25	5.75
Total Phosphorus (lbs) Total Monthly	7.0	5.0	7.2	11.7	8.9	7.6	7.2	6.9	7.5	6.2	8.3	8.5
Total Phosphorus (lbs) Total Annual			90.6									

Compliance History

Effluent Violations for Outfall 001, from: January 1, 2023 To: November 30, 2023

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
Fecal Coliform	07/31/23	Geo Mean	413	No./100 ml	200	No./100 ml
Fecal Coliform	07/31/23	IMAX	2420	No./100 ml	1000	No./100 ml

Other Comments: Facility has a history of periodically exceeding Fecal Coliform and TSS limits. Exceedances are likely operational in nature.

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Development of Effluent Limitations
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Outfall No. <u>001</u>	Design Flow (MGD) <u>.018</u>
Latitude <u>39° 57' 42.46"</u>	Longitude <u>-76° 32' 20.27"</u>
Wastewater Description: <u>Sewage Effluent</u>	

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

Other Comments: It has been noted that weekly Average Weekly limits for COBD5 and TSS have not been included in prior permits for this facility. In conformity with the applicable Federal and State regulations above, weekly maximum limits of 40 mg CBOD5/L and 45 mg TSS/L have been added to the permit.

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 no. 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 11.0 mg/L for ammonia (summer) and CBOD₅ of 25.0 mg/L are still protective of water quality.

Total Residual Chlorine

Since chlorine is used for disinfection, Total Residual Chlorine (TRC) effluent levels must be regulated in accordance with 25 Pa Code §92a.48(b). DEP's TRC_CALC worksheet is utilized to determine if the existing BAT TBEL is still appropriate. The worksheet indicates that the existing limits of 0.5 mg/L (average monthly) and 1.6 mg/L (IMAX) are still protective of water quality.

Toxics

DEP's NPDES permit application for minor sewages (less than 0.1 MGD) does not require sampling for heavy metals including Total Copper, Total Lead, and Total Zinc.

Margaretta MHP

Best Professional Judgment (BPJ) Limitations*Dissolved Oxygen*

A minimum of 5.0 mg/L for DO is an existing effluent limit and will remain unchanged in the draft permit as recommended by DEP's SOP. This requirement has also been assigned to other sewage facilities in the region. 5.0 mg/L is taken directly from 25 Pa. Code § 93.7(a) and it is also determined to be appropriate according to water quality modeling.

Total Phosphorus & Total Nitrogen

DEP's SOP no. BPNPSM-PMT-033 recommends monitoring requirements for Total Phosphorus and Total Nitrogen for all sewage facilities. Therefore, a routine monitoring for TKN, Nitrate-Nitrite, and TN are recommended to be continued in this permit as previously permitted.

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).

E. Coli Monitoring

In conformity with the Department's *Establishing Effluent Limitations for Individual Sewage Permits* (SOP No. BCW-PMT-033) and as authorized by § 92a.61 of the PA Code, annual E. Coli monitoring has been proposed in this permit. The collection method will be via grab sample.

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 0.2mgd) 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, Phase 2 in March 2012 and Phase 3 in December 2019. In accordance with the Phase 3 WIP, 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. Continued twice monthly testing of these pollutants is proposed in this permit.

Monitoring Frequency and Sample Type

Unless discussed otherwise above, the permit's monitoring frequency and sample type for all parameters will remain unchanged from the last permit renewal.

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.

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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).

Annual Fees

An annual fee clause was added to the permit in accordance with 25 Pa. Code § 92a.62. The facility covered by the permit is classified in the Minor Sewage Facility <0.05 MGD fee category, which has an annual fee of \$500.

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
	Monthly	Annual	Monthly	Monthly Average	Maximum	Instant. Maximum		
Total Nitrogen (lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Ammonia (lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Phosphorus (lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation

Compliance Sampling Location: Outfall 001

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	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	1/day	Grab

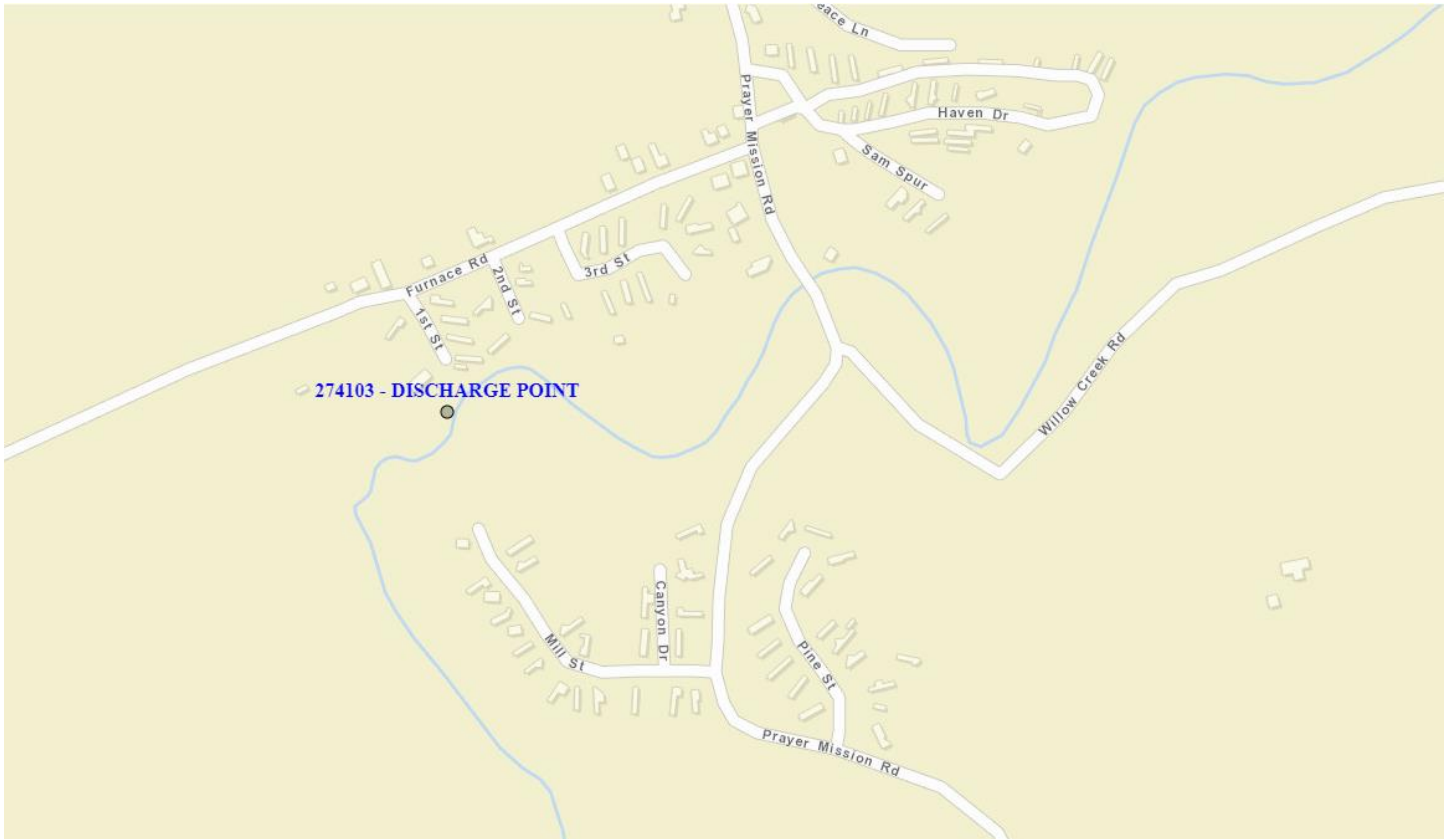
Outfall 001 , Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
TRC	XXX	XXX	XXX	0.50	XXX	1.6	1/day	Grab
CBOD5	XXX	XXX	XXX	25.0	40.0	50	2/month	8-Hr Composite
TSS	XXX	XXX	XXX	30.0	45.0	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
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Nitrate-Nitrite	XXX	XXX	XXX	Report	XXX	XXX	2/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	Report	XXX	XXX	Report	XXX	XXX	2/month	8-Hr Composite
Ammonia May 1 - Oct 31	Report	XXX	XXX	11.0	XXX	23	2/month	8-Hr Composite
Ammonia (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
TKN	XXX	XXX	XXX	Report	XXX	XXX	2/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	2/month	8-Hr Composite
Total Phosphorus (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation

Compliance Sampling Location: Outfall 001

Tools and References Used to Develop Permit	
<input type="checkbox"/>	WQM for Windows Model (see Attachment [redacted])
<input type="checkbox"/>	Toxics Management Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	TRC Model Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	Temperature Model Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
<input type="checkbox"/>	Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.
<input type="checkbox"/>	Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
<input type="checkbox"/>	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
<input type="checkbox"/>	Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
<input type="checkbox"/>	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
<input type="checkbox"/>	Pennsylvania CSO Policy, 386-2000-002, 9/08.
<input type="checkbox"/>	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
<input type="checkbox"/>	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 386-2000-008, 4/97.
<input type="checkbox"/>	Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
<input type="checkbox"/>	Implementation Guidance Design Conditions, 386-2000-007, 9/97.
<input type="checkbox"/>	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.
<input type="checkbox"/>	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.
<input type="checkbox"/>	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
<input type="checkbox"/>	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
<input type="checkbox"/>	Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
<input type="checkbox"/>	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
<input type="checkbox"/>	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
<input type="checkbox"/>	Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
<input type="checkbox"/>	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 10/97.
<input type="checkbox"/>	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.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 3/99.
<input type="checkbox"/>	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.
<input type="checkbox"/>	Design Stream Flows, 386-2000-003, 9/98.
<input type="checkbox"/>	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.
<input type="checkbox"/>	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.
<input type="checkbox"/>	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
<input type="checkbox"/>	SOP: [redacted]
<input type="checkbox"/>	Other: [redacted]

Margaretta MHP

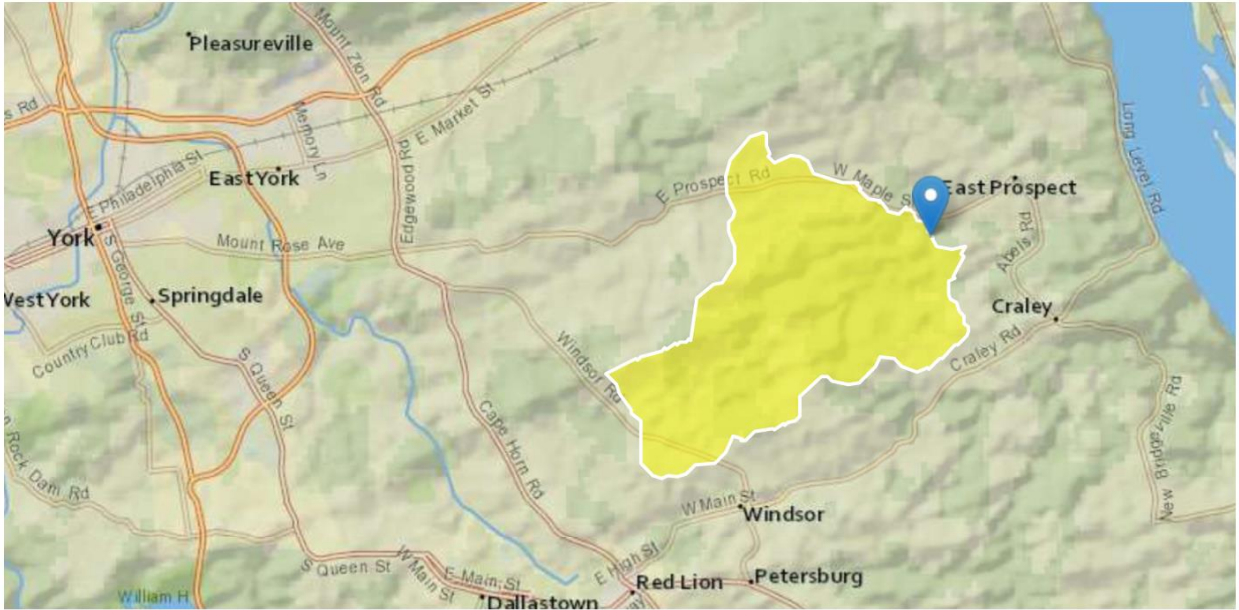


Margaretta MHP

1A	B	C	D	E	F	G
2	TRC EVALUATION					
3	Input appropriate values in B4:B8 and E4:E7					
4	1.95	= Q stream (cfs)		0.5	= CV Daily	
5	0.018	= Q discharge (MGD)		0.5	= CV Hourly	
6	30	= no. samples		1	= AFC_Partial Mix Factor	
7	0.3	= Chlorine Demand of Stream		1	= CFC_Partial Mix Factor	
8	0	= Chlorine Demand of Discharge		15	= AFC_Criteria Compliance Time (min)	
9	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 = 22.358		1.3.2.iii	WLA cfc = 21.790
#	PENTOXSD TRG	5.1a	LTAMULT afc = 0.373		5.1c	LTAMULT cfc = 0.581
#	PENTOXSD TRG	5.1b	LTA_afc= 8.331		5.1d	LTA_cfc = 12.668
#	Source	Effluent Limit Calculations				
#	PENTOXSD TRG	5.1f	AML MULT = 1.231			
#	PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.500		BAT/BPJ	
#			INST MAX LIMIT (mg/l) = 1.635			
	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)				

StreamStats Report

Region ID: PA
 Workspace ID: PA20240128140638862000
 Clicked Point (Latitude, Longitude): 39.96193, -76.53879
 Time: 2024-01-28 09:07:01 -0500



[+ Collapse All](#)

> Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
BSLOPD	Mean basin slope measured in degrees	6.742	degrees
DRNAREA	Area that drains to a point on a stream	8.67	square miles
ROCKDEP	Depth to rock	5	feet
URBAN	Percentage of basin with urban development	1.4132	percent

> Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 1]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	8.67	square miles	4.78	1150
BSLOPD	Mean Basin Slope degrees	6.742	degrees	1.7	6.4

Margaretta MHP

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
ROCKDEP	Depth to Rock	5	feet	4.13	5.21
URBAN	Percent Urban	1.4132	percent	0	89

Low-Flow Statistics Disclaimers [Low Flow Region 1]

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 1]

Statistic	Value	Unit
7 Day 2 Year Low Flow	3.51	ft ³ /s
30 Day 2 Year Low Flow	4.06	ft ³ /s
7 Day 10 Year Low Flow	1.95	ft ³ /s
30 Day 10 Year Low Flow	2.3	ft ³ /s
90 Day 10 Year Low Flow	2.87	ft ³ /s

Low-Flow Statistics Citations

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

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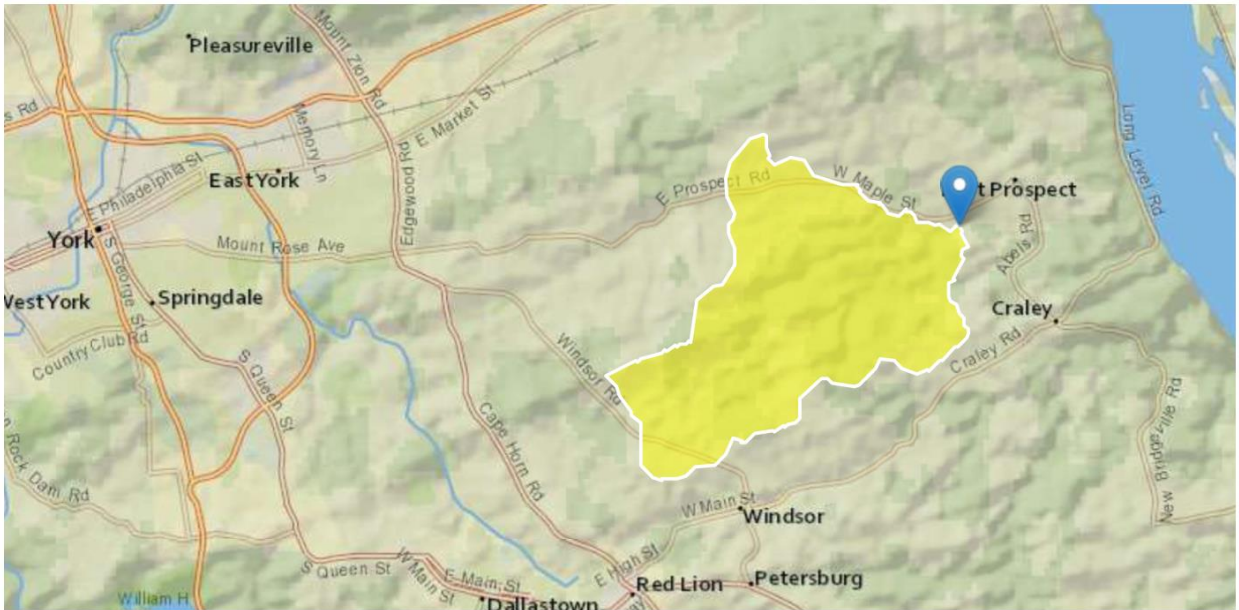
Application Version: 4.19.3

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1

StreamStats Report

Region ID: PA
 Workspace ID: PA20240128180931034000
 Clicked Point (Latitude, Longitude): 39.96401, -76.53252
 Time: 2024-01-28 13:09:53 -0500



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
BSLOPD	Mean basin slope measured in degrees	6.7607	degrees
DRNAREA	Area that drains to a point on a stream	8.77	square miles
ROCKDEP	Depth to rock	5	feet
URBAN	Percentage of basin with urban development	1.4338	percent

Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 1]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	8.77	square miles	4.78	1150
BSLOPD	Mean Basin Slope degrees	6.7607	degrees	1.7	6.4

Margaretta MHP

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
ROCKDEP	Depth to Rock	5	feet	4.13	5.21
URBAN	Percent Urban	1.4338	percent	0	89

Low-Flow Statistics Disclaimers [Low Flow Region 1]

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 1]

Statistic	Value	Unit
7 Day 2 Year Low Flow	3.57	ft ³ /s
30 Day 2 Year Low Flow	4.13	ft ³ /s
7 Day 10 Year Low Flow	1.99	ft ³ /s
30 Day 10 Year Low Flow	2.33	ft ³ /s
90 Day 10 Year Low Flow	2.91	ft ³ /s

Low-Flow Statistics Citations

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

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Application Version: 4.19.3

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1

Margaretta MHP

WQM 7.0 Effluent Limits

<u>SWP Basin</u>		<u>Stream Code</u>	<u>Stream Name</u>				
071		7848	CABIN 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)
5.220	Margaretta MHP	PA0042528	0.018	CBOD5	25		
				NH3-N	25	50	
				Dissolved Oxygen			5

Margaretta MHP

WQM 7.0 Wasteload Allocations

<u>SWP Basin</u>	<u>Stream Code</u>	<u>Stream Name</u>
071	7848	CABIN 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
5.220	Margaretta MHP	16.61	50	16.61	50	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
5.220	Margaretta MHP	1.88	25	1.88	25	0	0

Dissolved Oxygen Allocations

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)		
5.22	Margaretta MHP	25	25	25	25	5	5	0	0

Margaretta MHP

WQM 7.0 D.O.Simulation

<u>SWP Basin</u>	<u>Stream Code</u>	<u>Stream Name</u>		
071	7848	CABIN CREEK		
<u>RM1</u>	<u>Total Discharge Flow (mgd)</u>	<u>Analysis Temperature (°C)</u>	<u>Analysis pH</u>	
5.220	0.018	20.070	7.000	
<u>Reach Width (ft)</u>	<u>Reach Depth (ft)</u>	<u>Reach WDRatio</u>	<u>Reach Velocity (fps)</u>	
17.957	0.561	32.010	0.196	
<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>	
2.32	0.206	0.35	0.704	
<u>Reach DO (mg/L)</u>	<u>Reach Kr (1/days)</u>	<u>Kr Equation</u>	<u>Reach DO Goal (mg/L)</u>	
8.197	12.713	Tsivoglou	6	
<u>Reach Travel Time (days)</u>	Subreach Results			
0.153	<u>TravTime (days)</u>	<u>CBOD5 (mg/L)</u>	<u>NH3-N (mg/L)</u>	<u>D.O. (mg/L)</u>
	0.015	2.32	0.35	8.23
	0.031	2.31	0.34	8.23
	0.046	2.30	0.34	8.23
	0.061	2.29	0.34	8.23
	0.076	2.29	0.33	8.23
	0.092	2.28	0.33	8.23
	0.107	2.27	0.33	8.23
	0.122	2.27	0.32	8.23
	0.137	2.26	0.32	8.23
	0.153	2.25	0.32	8.23

Margaretta MHP

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	6		

Margaretta MHP

WQM 7.0 Hydrodynamic Outputs

<u>SWP Basin</u>		<u>Stream Code</u>				<u>Stream Name</u>						
071		7848				CABIN 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 (°C)	Analysis pH
Q7-10 Flow												
5.220	1.95	0.00	1.95	.0278	0.00680	.561	17.96	32.01	0.20	0.153	20.07	7.00
Q1-10 Flow												
5.220	1.25	0.00	1.25	.0278	0.00680	NA	NA	NA	0.15	0.195	20.11	7.00
Q30-10 Flow												
5.220	2.65	0.00	2.65	.0278	0.00680	NA	NA	NA	0.23	0.129	20.05	7.00

Margaretta MHP

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
07I	7848	CABIN CREEK	5.220	353.87	8.67	0.00000	0.00	<input checked="" type="checkbox"/>

Stream Data

Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tributary Temp	Tributary pH	Stream Temp	Stream pH
	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)	
Q7-10	0.100	0.00	1.95	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
Margaretta MHP	PA0042528	0.0180	0.0180	0.0180	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	5.00	8.24	0.00	0.00
NH3-N	25.00	0.00	0.00	0.70

Margaretta MHP

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
07I	7848	CABIN CREEK	4.730	336.27	8.77	0.00000	0.00	<input checked="" type="checkbox"/>

Stream Data

Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tributary Temp	Tributary pH	Stream Temp	Stream pH
	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)	
Q7-10	0.100	0.00	1.99	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