Pennsylvania Department of Environmental Protection

Northwest Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0101851**
Facility Type	**Non-Municipal**	APS ID	**1132524**
Major / Minor	**Minor**	Authorization ID	**1518501**

Applicant and Facility Information

Applicant Name	**Sisters of Humility of Mary Inc.**	Facility Name	**Villa Maria Comm Center**
Applicant Address	PO Box 906 288 Villa Drive	Facility Address	228 Villa Drive
	Villa Maria, PA 16155-0906		Villa Maria, PA 16155
Applicant Contact	Warren Chapella	Facility Contact	Andrew Meloy
Applicant Phone	(724) 964-8920	Facility Phone	(814) 329-8811
Applicant Email	wchapella@humilityofmary.org	Facility Email	etsllc17@gmail.com
Client ID	24291	Site ID	244023
Ch 94 Load Status	Not Overloaded	Municipality	Pulaski Township
Connection Status		County	Lawrence
Date Application Received	March 4, 2025	EPA Waived?	Yes
Date Application Accepted	March 12, 2025	If No, Reason	

Purpose of Application: Renewal of a NPDES Permit for an Existing Discharge of 0.03 MGD

Summary of Review

This is a renewal Sewage Individual NPDES Permit for an Existing Design Flow of 0.03 MGD from a non-municipal minor sewage facility.

Proposed is decreasing the average monthly Ammonia Nitrogen limit from 5.0 mg/L to 2.25 mg/L.

Act 14 – Proof of Notification was submitted and received.

This facility is currently using eDMR system.

SPECTIAL CONDITIONS: NONE

The EPA waiver is in effect.

There are NO open violations in WMS for the subject Client ID (24291) as of March 18, 2025.

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		Aeshah Shameseldin Aeshah Shameseldin / Project Manager	March 18, 2025
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	April 18, 2025

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.03
Latitude	41º 4' 30.00"	Longitude	-80º 30' 22.00"
Quad Name	Campbell	Quad Code	41080A5
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary to Coffee Run (WWF)	Stream Code	35470
NHD Com ID	125562122	RMI	0.50
Drainage Area	0.35 (Dry), 2.38 (Perennial)	Yield (cfs/mi^2)	0.001 (Dry), 0.01 (Perennial)
Q_{7-10} Flow (cfs)	0.0238	Q_{7-10} Basis	Calculated
Elevation (ft)	1074	Slope (ft/ft)	---
Watershed No.	20-B	Chapter 93 Class.	WWF
Existing Use	---	Existing Use Qualifier	---
Exceptions to Use	---	Exceptions to Criteria	---
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	---		
Source(s) of Impairment	---		
TMDL Status	---	Name	---

Background/Ambient Data		Data Source
pH (SU)	7.0	Default
Temperature (°F)	77	Default
Hardness (mg/L)	100	Default
Other:		

Nearest Downstream Public Water Supply Intake	Beaver Falls Municipal Authority - Eastvale		
PWS Waters	Beaver River	Flow at Intake (cfs)	---
PWS RMI	5.4	Distance from Outfall (mi)	---

Changes Since Last Permit Issuance: None.

Other Comments: None.

Treatment Facility Summary

Treatment Facility Name: Villa Maria Comm Center

WQM Permit No.	Issuance Date
3799404	October 19, 1999

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary With Ammonia Reduction	Activated Sludge	Ultraviolet	0.02

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.03	70	Not Overloaded	Aerobic Digestion	Landfill

Changes Since Last Permit Issuance: None.

Other Comments: Treatment facilities permitted under WQM Permit # 3799404 consist of: Comminution with by-pass bar screen, aerated flow equalization, extended aeration with clarification, surface sand filtration, UV disinfection and aerobic sludge digestion. Air supply is two rotary blowers.

Compliance History

DMR Data for Outfall 001 (from February 1, 2024 to January 31, 2025)

Parameter	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24
Flow (MGD) Average Monthly	0.021	0.021	0.027	0.053	0.013	0.018	0.014	0.016	0.016	0.023	0.019	0.02
Flow (MGD) Daily Maximum	0.03	0.03	0.065	0.074	0.018	0.050	0.032	0.031	0.027	0.049	0.049	0.034
pH (S.U.) Instantaneous Minimum	7.3	7.07	6.71	7.11	6.9	6.43	6.61	6.53	6.63	6.85	6.72	6.49
pH (S.U.) Instantaneous Maximum	7.89	7.54	7.37	7.39	7.41	7.34	7.16	7.32	7.33	7.38	8.42	7.39
DO (mg/L) Daily Minimum	6.27	7.28	9.83	1.23	7.81	6.28	7.65	6.37	6.21	6.22	7.12	9.12
CBOD5 (mg/L) Average Monthly	< 4.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 5.0	< 5.0	< 5.0	< 4.0	< 4.0
TSS (mg/L) Average Monthly	< 5.0	< 5.0	< 5.0	< 6.0	< 5.0	< 5.0	< 6.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Fecal Coliform (No./100 ml) Geometric Mean	FF	< 1	< 1.0	18	< 7	< 1	< 1.0	9	21	2	< 1.0	< 1.0
UV Intensity (µw/cm²) Average Monthly	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG
Total Nitrogen (mg/L) Average Monthly	< 10	8.022	12.61	< 9.46	< 22.37	< 13	< 22	30.411	20.87	10	< 15.32	< 12
Ammonia (mg/L) Average Monthly	< 0.35	0.50	< 0.3	< 0.3	< 0.3	< 0.3	< 0.2	< 0.3	< 0.3	1.0	< 0.5	< 0.3
Total Phosphorus (mg/L) Average Monthly	0.249	0.435	0.642	0.572	0.519	0.362	1.407	0.228	0.295	0.309	0.263	0.204

Compliance History

Effluent Violations for Outfall 001, from: March 1, 2024, To: January 31, 2025

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
DO	10/31/24	Daily Min	1.23	mg/L	5.0	mg/L

Summary of Inspections: An inspection of the facility was conducted on February 21, 2020. The inspection report did not cite any violations.

Other Comments: The following non compliances were noted during the inspection:

1- 25 Pa. Code 92a.41(a)(10): Failure to maintain proper sample temperature. Composite sample is not iced during collection.
2- 25 Pa. Code 92a.41(a)(10): Failure to use an NIST thermometer. Thermometer present but not NIST traceable.

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .03
Latitude 41º 4' 30.00" **Longitude** -80º 30' 22.00"
Wastewater Description: Sewage Effluent

Technology-Based Limitations

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

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
$CBOD_5$	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Total Suspended Solids	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform (5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)
E. Coli	Report (No./100 ml)	IMAX	-	§ 92a.61

Comments: Monitoring for E. Coli is placed in the permit in accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Sewage Permits."

Water Quality-Based Limitations

CBOD5, Ammonia, and DO are evaluated using WQM 7.0 (Attachment 1 and 2).

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

Parameter	Limit (mg/l)	SBC	Model
Dissolved Oxygen	4.0	Daily Min.	WQM 7.0
CBOD5	25	Average Monthly	WQM 7.0
	50	IMAX	
Ammonia Nitrogen (May 1 – Oct 31)	2.25	Average Monthly	WQM 7.0
	4.5	IMAX	

Comments: The WQM modeling has determined a more stringent average monthly Ammonia Nitrogen limit under perennial conditions. As part of this renewal, new monitoring requirements are being proposed. A review of the Discharge Monitoring Reports for the previous four years indicates that the Ammonia Nitrogen sampling results have consistently been below the newly proposed limits. As a result, an effective period will not be established in this renewal.

Best Professional Judgment (BPJ) Limitations

Comments: Monitoring for total nitrogen, total phosphorus and raw sewage influent monitoring for $CBOD_5$ and TSS are placed in the permit in accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Sewage Permits."

The calculated average monthly Dissolved Oxygen limit using WQM 7.0 is 4.0 mg/L, however, the limits established in previous permits are attainable and will be retained.

Anti-Backsliding: N/A

Proposed Effluent Limitations and Monitoring Requirements

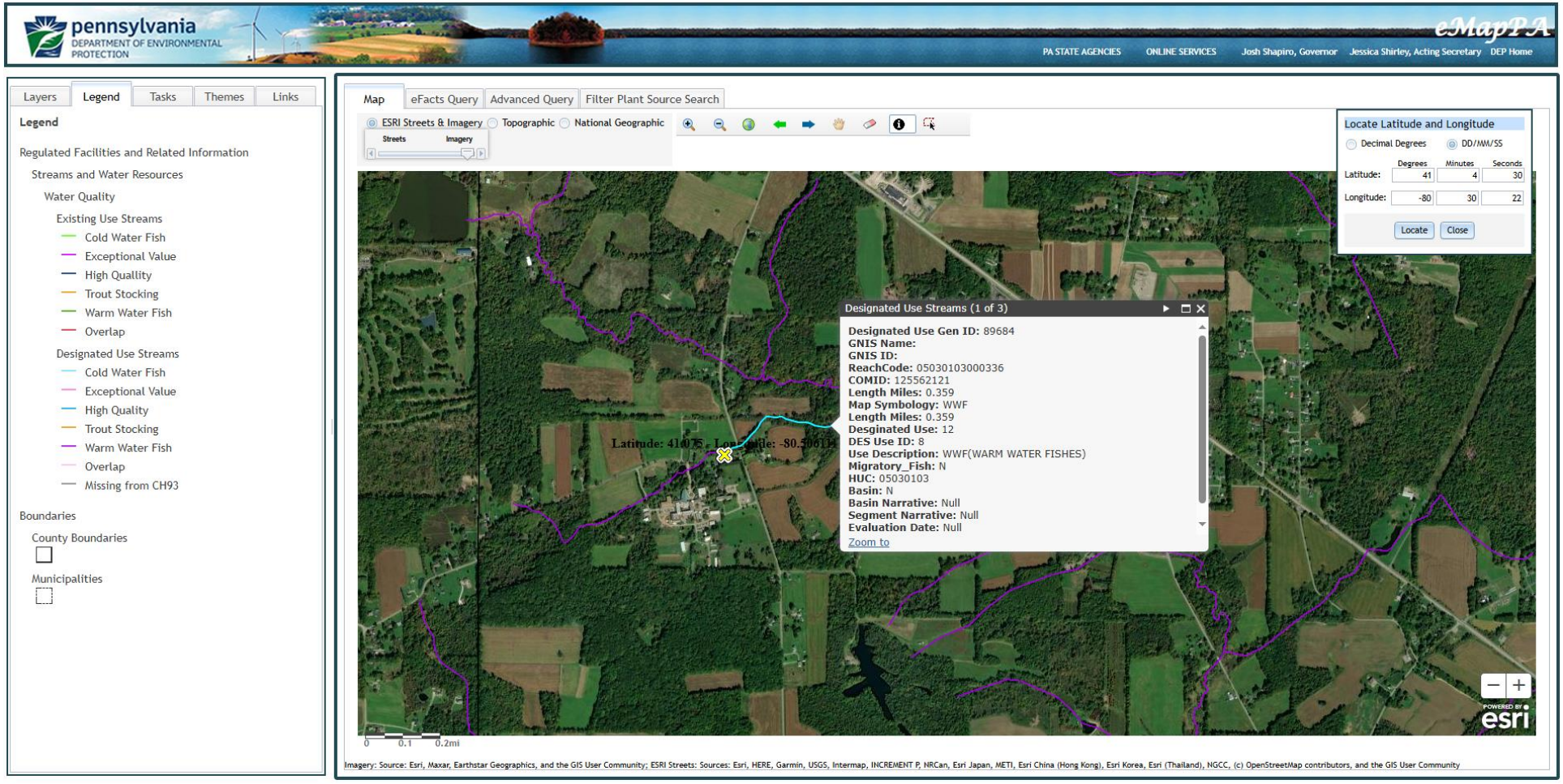
The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). 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	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0 Daily Min	XXX	XXX	XXX	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
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
UV Intensity (µw/cm²)	XXX	XXX	XXX	Report	XXX	XXX	1/day	Measured
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	2/month	8-Hr Composite
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	6.75	XXX	13.5	2/month	8-Hr Composite
Ammonia May 1 - Oct 31	XXX	XXX	XXX	2.25	XXX	4.5	2/month	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	2/month	8-Hr Composite

Compliance Sampling Location: Outfall 001, after disinfection.

Outfall Location - eMap with Aerial Imagery



Dry Reach - Drainage Area Location – StreamStats with Aerial Imagery

StreamStats Report

Region ID:	PA
Workspace ID:	PA20250312152319535000
Clicked Point (Latitude, Longitude):	41.07511, -80.50621
Time:	2025-03-12 11:23:44 -0400

Collapse All

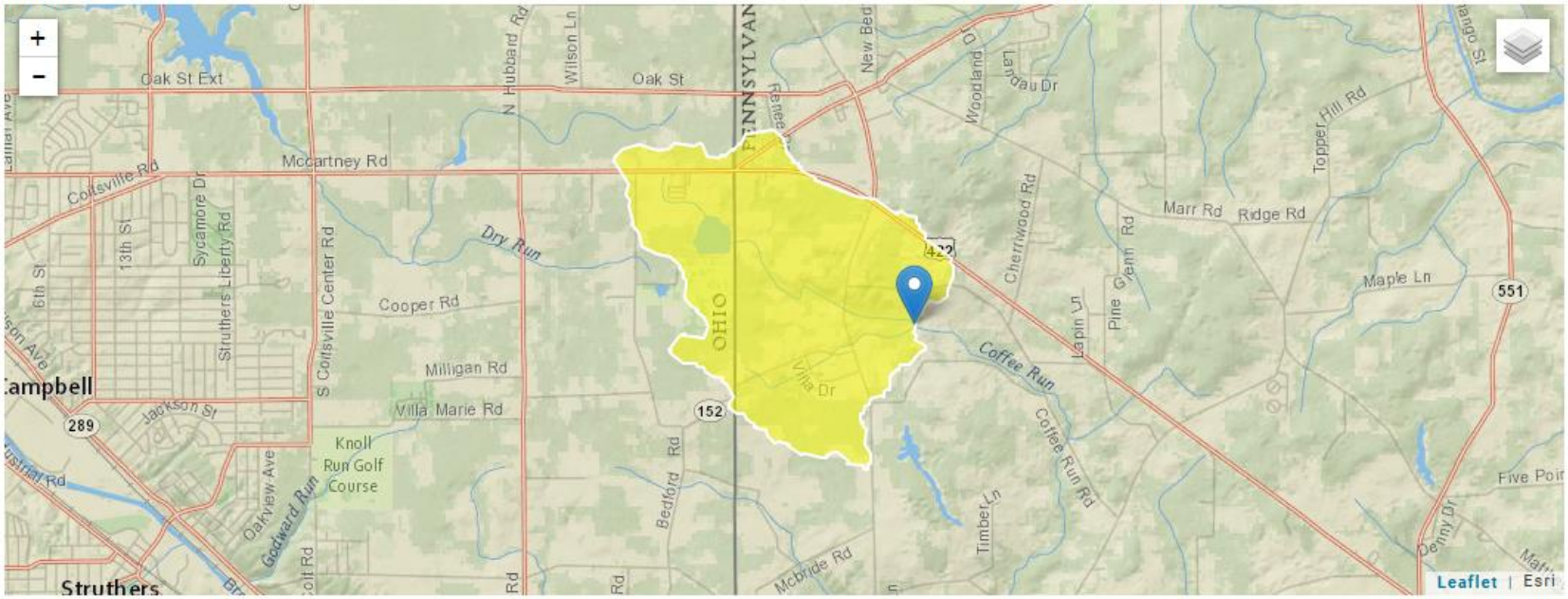
Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.35	square miles

Perennial Reach - Drainage Area Location – StreamStats with Aerial Imagery

StreamStats Report

Region ID:	PA
Workspace ID:	PA20250312152600042000
Clicked Point (Latitude, Longitude):	41.07709, -80.49815
Time:	2025-03-12 11:26:21 -0400



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	2.38	square miles

A two-step model was used. The first step was for a dry stream evaluation. The DO simulation end-of-reach data was then used to evaluate the second step perennial stream reach. The second step evaluated perennial stream conditions. For modeling purposes, the outfall location was assigned an RMI value of 5.69, although the actual value on the dry stream (stream code 35470) is 0.5.

Attachment 1

Dry Reach Modeling

WQM 7.0 Effluent Limits

SWP Basin	Stream Code	Stream Name
20B	35470	Trib 35470 to Coffee Run

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)
5.690	Villa Maria Com	PA0101851	0.030	CBOD5	25		
				NH3-N	25	50	
				Dissolved Oxygen			4

WQM 7.0 Modeling Specifications

Parameters	D.O.	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	2		

WQM 7.0 D.O.Simulation

SWP Basin	Stream Code	Stream Name
20B	35470	Trib 35470 to Coffee Run

RMI	Total Discharge Flow (mgd)	Analysis Temperature (°C)	Analysis pH
5.690	0.030	20.000	7.000
Reach Width (ft)	**Reach Depth (ft)**	**Reach WDRatio**	**Reach Velocity (fps)**
2.934	0.313	9.359	0.051
Reach CBOD5 (mg/L)	**Reach Kc (1/days)**	**Reach NH3-N (mg/L)**	**Reach Kn (1/days)**
24.81	1.500	24.81	0.700
Reach DO (mg/L)	**Reach Kr (1/days)**	**Kr Equation**	**Reach DO Goal (mg/L)**
4.026	25.214	Owens	2
Reach Travel Time (days)			
0.601			

Subreach Results

TravTime (days)	CBOD5 (mg/L)	NH3-N (mg/L)	D.O. (mg/L)
0.060	22.67	23.79	4.00
0.120	20.72	22.81	4.24
0.180	18.93	21.87	4.51
0.240	17.30	20.97	4.78
0.300	15.81	20.11	5.04
0.361	14.45	19.28	5.27
0.421	13.20	18.48	5.49
0.481	12.06	17.72	5.70
0.541	11.02	16.99	5.90
0.601	10.07	16.29	6.08

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
20B	35470	Trib 35470 to Coffee Run	**5.690**	1074.00	0.35	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	0.001	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
Villa Maria Com	PA0101851	0.0300	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	0.00	0.00	1.50
Dissolved Oxygen	4.00	7.54	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
20B	35470	Trib 35470 to Coffee Run	**5.190**	1045.00	2.38	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	0.001	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 Wasteload Allocations

SWP Basin	Stream Code	Stream Name
20B	35470	Trib 35470 to Coffee Run

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)		
5.69	Villa Maria Com	25	25	25	25	4	4	0	0

WQM 7.0 Hydrodynamic Outputs

SWP Basin	Stream Code	Stream Name
20B	35470	Trib 35470 to Coffee Run

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												
5.690	0.00	0.00	0.00	.0464	0.01098	.313	2.93	9.36	0.05	0.601	20.00	7.00
Q1-10 Flow												
5.690	0.00	0.00	0.00	.0464	0.01098	NA	NA	NA	0.00	0.000	0.00	0.00
Q30-10 Flow												
5.690	0.00	0.00	0.00	.0464	0.01098	NA	NA	NA	0.00	0.000	0.00	0.00

Attachment 2

Perennial Reach Modeling

For CBOD5 and DO, the resulting limits are the same as the inputs from the Dry Stream model therefore secondary limits are sufficient.

WQM 7.0 Effluent Limits

SWP Basin	Stream Code	Stream Name
20B	35470	Trib 35470 to Coffee Run

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)
5.190	Villa Maria Com	PA0101851	0.030	CBOD5	10.07		
				NH3-N	2.25	4.5	
				Dissolved Oxygen			6.08

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
20B	35470	Trib 35470 to Coffee Run

RMI	Total Discharge Flow (mgd)	Analysis Temperature (°C)	Analysis pH
5.190	0.030	25.000	7.000
Reach Width (ft)	**Reach Depth (ft)**	**Reach WDRatio**	**Reach Velocity (fps)**
5.381	0.336	15.995	0.039
Reach CBOD5 (mg/L)	**Reach Kc (1/days)**	**Reach NH3-N (mg/L)**	**Reach Kn (1/days)**
7.33	0.472	1.52	1.029
Reach DO (mg/L)	**Reach Kr (1/days)**	**Kr Equation**	**Reach DO Goal (mg/L)**
6.575	20.776	Owens	5
Reach Travel Time (days)			
2.190			

Subreach Results

TravTime (days)	CBOD5 (mg/L)	NH3-N (mg/L)	D.O. (mg/L)
0.219	6.44	1.21	7.54
0.438	5.66	0.97	7.54
0.657	4.97	0.77	7.54
0.876	4.36	0.62	7.54
1.095	3.83	0.49	7.54
1.314	3.36	0.39	7.54
1.533	2.95	0.31	7.54
1.752	2.59	0.25	7.54
1.971	2.28	0.20	7.54
2.190	2.00	0.16	7.54

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
20B	35470	Trib 35470 to Coffee Run	**5.190**	1045.00	2.38	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	0.010	0.00	0.00	0.000	0.000	0.0	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
Villa Maria Com	PA0101851	0.0300	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	10.07	2.00	0.00	1.50
Dissolved Oxygen	6.08	7.54	0.00	0.00
NH3-N	16.29	0.10	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
20B	35470	Trib 35470 to Coffee Run	**3.800**	1013.00	3.90	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	0.010	0.00	0.00	0.000	0.000	0.0	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 Wasteload Allocations

SWP Basin	Stream Code	Stream Name
20B	35470	Trib 35470 to Coffee Run

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
5.190	Villa Maria Com	11.07	14.67	11.07	14.67	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
5.190	Villa Maria Com	1.37	2.25	1.37	2.25	1	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)		
5.19	Villa Maria Com	10.07	10.07	2.25	2.25	6.08	6.08	0	0

WQM 7.0 Hydrodynamic Outputs

SWP Basin	Stream Code	Stream Name
20B	35470	Trib 35470 to Coffee Run

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												
5.190	0.02	0.00	0.02	.0464	0.00436	.336	5.38	15.99	0.04	2.190	25.00	7.00
Q1-10 Flow												
5.190	0.02	0.00	0.02	.0464	0.00436	NA	NA	NA	0.04	2.356	25.00	7.00
Q30-10 Flow												
5.190	0.03	0.00	0.03	.0464	0.00436	NA	NA	NA	0.04	2.054	25.00	7.00