pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northcentral Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0113778**
Facility Type	**Non-Municipal**	APS ID	**1109649**
Major / Minor	**Minor**	Authorization ID	**1477198**

Applicant and Facility Information

Applicant Name	**UMH Properties, Inc.**	Facility Name	**Pleasant View Estates**
Applicant Address	150 Clay Street	Facility Address	602 Fort Jenkins Lane
	Morgantown, WV 26501-5942		Bloomsburg, PA 17815
Applicant Contact	Jeffrey Yorick	Facility Contact	Jeffrey Yorick
Applicant Phone	(304) 291-3380	Facility Phone	(304) 291-3380
Client ID	79530	Site ID	4426
Ch 94 Load Status	Not Overloaded	Municipality	South Centre Township
Connection Status	No Limitations	County	Columbia
Date Application Received	March 5, 2024	EPA Waived?	Yes
Date Application Accepted	March 18, 2024	If No, Reason	

Purpose of Application: Renewal of a NPDES Permit

Summary of Review

The subject STP discharge serves a trailer park in South Centre Township, Columbia County. A map of the discharge location is attached.

Sludge use and disposal description and location(s): The facility's sludge is sent to other facilities for further processing. Per the application 1.25 dry tons were removed in the previous year.

Public Participation

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

Approve	Deny	Signatures	Date
✓		Keith C. Allison / Project Manager	August 8, 2024
✓		Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	August 8, 2024

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.030
Latitude	41º 1' 52.76"	Longitude	-76º 20' 8.05"
Quad Name	Mifflinville, PA	Quad Code	
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary to Susquehanna River (CWF)	Stream Code	28077
NHD Com ID	65639877	RMI	0.59
Drainage Area	1.41	Yield (cfs/mi^2)	0.1869
Q_{7-10} Flow (cfs)	0.263	Q_{7-10} Basis	USGS Gage #1442500 Brodhead Creek @Minsink, PA
Elevation (ft)	523	Slope (ft/ft)	0.00155
Watershed No.	5-D	Chapter 93 Class.	CWF
Existing Use	N/A	Existing Use Qualifier	N/A
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Attaining Use(s)		
Nearest Downstream Public Water Supply Intake	Danville Municipal Water Authority		
PWS Waters	Susquehanna River	Flow at Intake (cfs)	1,100
PWS RMI	138.5	Distance from Outfall (mi)	~18

Changes Since Last Permit Issuance: None. The existing stream and drainage characteristics are adequate.

Other Comments: No downstream water supply is expected to be affected by the discharge at this time with the limitations and monitoring proposed.

Treatment Facility Summary				
Treatment Facility Name: Pleasant View MHP				
WQM Permit No.	**Notable Issuance Dates**			
1988402 T-3	Original 7/29/88 T-3 3/29/2011 A-2 1/14/2020			
Waste Type	**Degree of Treatment**	**Process Type**	**Disinfection**	**Avg Annual Flow (MGD)**
Sewage	Secondary	Extended Aeration	Hypochlorite	0.030
Hydraulic Capacity (MGD)	**Organic Capacity (lbs/day)**	**Load Status**	**Biosolids Treatment**	**Biosolids Use/Disposal**
0.030	62.4	Not Overloaded	Holding Tank	Other WWTP

Changes Since Last Permit Issuance: Installation of dechlorination under WQM Permit 1988402 A-2 is new.

Other Comments: The treatment facilities as permitted under WQM Permit 1988402 consist of influent pump station, bar screen, 30,000-gal aeration tank, 5,000-gallon settling tank, erosion chlorinator, 800-gallon chlorine contact tank, erosion dechlorination, 60-gallon dechlorination tank, and 4,700-gallon sludge holding tank.

Compliance History	
Summary of Inspections:	The facility has been most recently inspected by the Department on April 12, 2024. This inspection identified no violations at the time of inspection.
Other Comments:	A query in WMS found several open violations in eFACTS for UMH Properties, Inc, all at other facilities. See the attached list of open violations.

Compliance History, cont'd

DMR Data for Outfall 001 (from July 1, 2023 to June 30, 2024)

Parameter	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23	OCT-23	SEP-23	AUG-23	JUL-23
Flow (MGD) Average Monthly	0.0076	0.0122	0.0079	0.0082	0.0103	0.0101	0.0114	0.0089	0.0078	0.0071	0.0072	0.0062
pH (S.U.) Instantaneous Minimum	7.1	6.4	6.8	6.1	7.3	7.2	7.1	7.0	7.6	7.5	7.2	7.1
pH (S.U.) Instantaneous Maximum	8.4	7.8	7.6	7.9	8.0	8.1	8.3	8.9	8.8	8.3	8.3	8.3
DO (mg/L) Instantaneous Minimum	1.87	2.02	1.67	2.91	2.39	4.01	4.02	4.02	3.33	2.63	2.62	3.9
TRC (mg/L) Average Monthly	< 0.05	< 0.1	< 0.1	< 0.1	0.04	< 0.02	< 0.03	< 0.03	< 0.04	< 0.03	< 0.03	< 0.02
TRC (mg/L) Instantaneous Maximum	0.1	0.1	0.1	0.1	0.1	< 0.03	0.1	0.08	0.1	0.1	0.1	0.1
CBOD5 (mg/L) Average Monthly	< 3.0	< 3.3	< 4.2	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
CBOD5 (mg/L) Instantaneous Maximum	< 3.0	3.6	5.3	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
TSS (mg/L) Average Monthly	< 2.0	< 3.4	4.2	5.2	4.9	4.6	< 4.8	< 3.6	< 2.4	< 1.8	< 2.3	< 2.0
TSS (mg/L) Instantaneous Maximum	2.4	5.2	5.5	6.0	5.0	5.6	8.0	5.6	3.2	< 2.0	2.5	< 2.0
Fecal Coliform (No./100 ml) Geometric Mean	< 1	< 1	< 1	4	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1
Fecal Coliform (No./100 ml) Instantaneous Maximum	< 1	< 1	< 1	8	< 1	< 1	24	< 1	< 1	< 1	< 1	< 1
Ammonia (mg/L) Average Monthly	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	0.3	0.5
Ammonia (mg/L) Instantaneous Maximum	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.4	0.4	0.6

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**	**Maximum**	**Instant. Maximum**		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	Weir
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	Report Inst Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50.0	2/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60.0	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
Total Nitrogen	Report Annl Avg	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	18.0	XXX	36.0	2/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	6.0	XXX	12.0	2/month	Grab
Total Phosphorus	Report Annl Avg	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	Grab

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.03
Latitude 41º 1' 53.20" **Longitude** -76º 20' 8.60"
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)
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 above limits are applicable and are included in the existing permit.

Water Quality-Based Limitations

DO, CBOD5 and NH3-N

The WQM7.0 model allows the Department to evaluate point source discharges of dissolved oxygen (DO), carbonaceous BOD ($CBOD_5$), and ammonia-nitrogen (NH_3-N) into free-flowing streams and rivers. To accomplish this, the model simulates two basic processes: the mixing and degradation of NH_3-N in the stream and the mixing and consumption of DO in the stream due to the degradation of $CBOD_5$ and NH_3-N. WQM7.0 modeling was performed (see Attachment C) for the discharge to the unnamed tributary to the Susquehanna River and verified that no limitations are necessary beyond the limits including an existing water quality-based limit for NH_3-N of 6 mg/L.

Total Residual Chlorine

The attached modeling shows that the technology-based limit of 0.5 mg/L is adequate to protect the receiving waters (See Attachment D).

Water Quality Toxics Management

No further “Reasonable Potential Analysis” was performed to determine additional toxic parameters as candidates for limitations for this minor STP discharge.

Chesapeake Bay/Nutrient Requirements

A portion of the Chesapeake Bay and many of its tidal tributaries have been listed as impaired under Section 303(d) of the Water Pollution Control Act, 33 U.S.C. §1313(d). Total Nitrogen and Total Phosphorus cap loads have been established for significant dischargers in Pennsylvania to reduce the total nutrient load to the Bay and meet State of Maryland Water Quality Standards. The Pleasant View Estates facility is considered a Phase V, non-significant Chesapeake Bay discharger and as such no nutrient cap loadings have been established for the facility pursuant to the Phase III Watershed Implementation Plan. The Total Nitrogen and Total Phosphorus concentrations have averaged <47 and 5.0 mg/L, respectively. Because the current nutrient load from the discharge has adequately been characterized no additional TN or TP monitoring will be required at this time.

E. Coli

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

Best Professional Judgment (BPJ) Limitations

No additional BPJ limitations are necessary for this discharge beyond the technology and water quality-based limits noted above.

Anti-Backsliding

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

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (386-0400-001), SOPs and/or BPJ.

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

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	Weir
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	Report Inst Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50.0	2/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60.0	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
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	18.0	XXX	36.0	2/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	6.0	XXX	12.0	2/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	Repot Daily Max	XXX	1/year	Grab

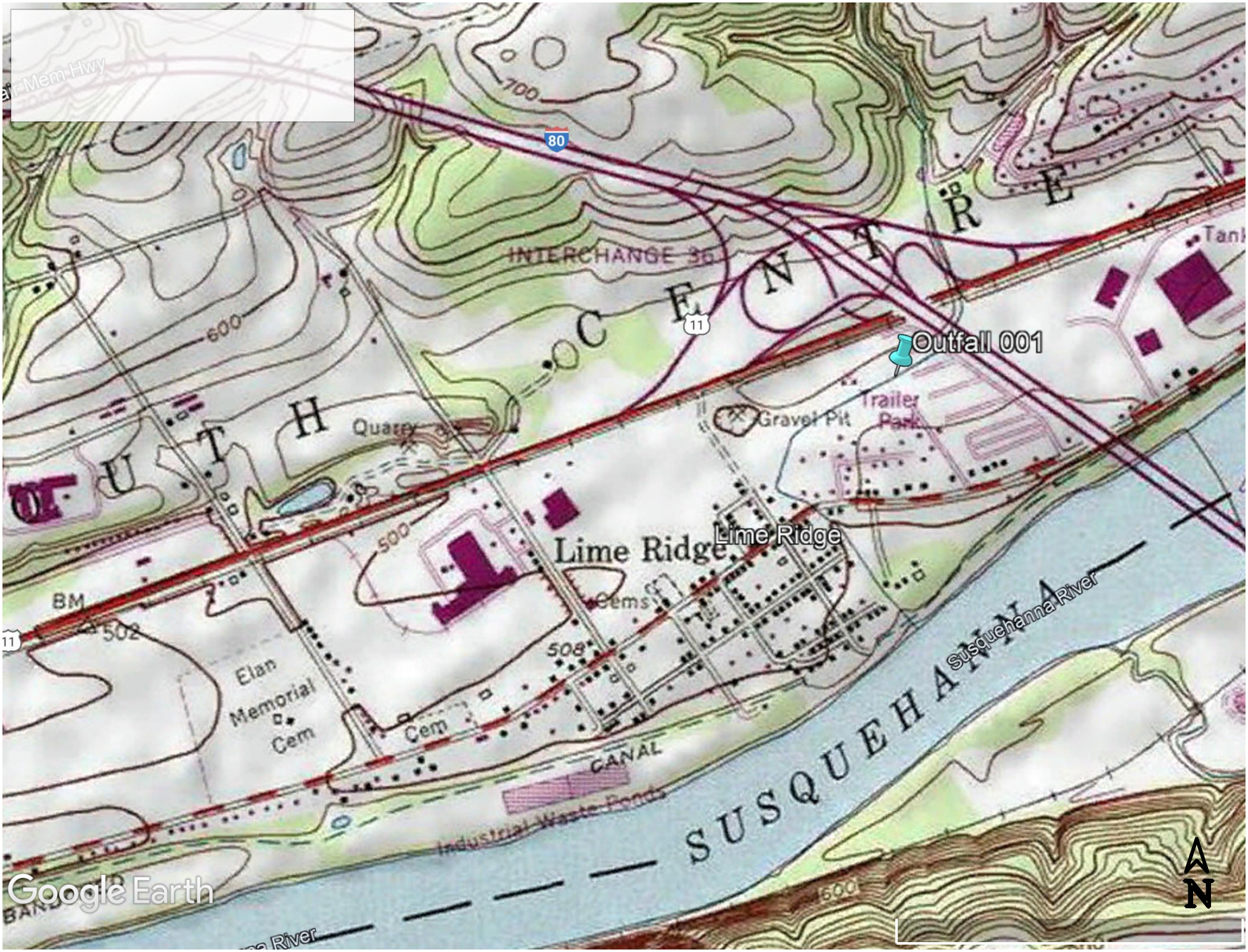
Compliance Sampling Location: Outfall 001

Other Comments: E. Coli monitoring is new as mentioned above. Total Nitrogen and Total Phosphorus monitoring have been removed as also mentioned above.

Tools and References Used to Develop Permit	
☒	WQM for Windows Model (see Attachment C)
☐	Toxics Management Spreadsheet (see Attachment)
☒	TRC Model Spreadsheet (see Attachment **D**)
☐	Temperature Model Spreadsheet (see Attachment)
☒	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
☒	Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.
☐	Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
☒	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
☐	Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
☐	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
☐	Pennsylvania CSO Policy, 386-2000-002, 9/08.
☐	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
☐	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 386-2000-008, 4/97.
☒	Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
☒	Implementation Guidance Design Conditions, 386-2000-007, 9/97.
☒	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 386-2000-016, 6/2004.
☐	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.
☐	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
☐	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
☒	Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
☐	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
☒	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
☐	Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
☐	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 10/97.
☐	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 386-2000-020, 10/97.
☐	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 3/99.
☐	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 386-2000-010, 3/1999.
☒	Design Stream Flows, 386-2000-003, 9/98.
☐	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 386-2000-006, 10/98.
☐	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.
☒	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
☐	SOP:
☐	Other:

Attachments:

A. Discharge Location Map
B. List of Open Violations
C. WQM7.0 Model
D. TRC Model


Outfall 001
Lime Ridge
Lime Ridge
Susquehanna River
SUSQUEHANNA
INTERCHANGE 36
SOUTH CENTRE
Quarry
Gravel Pit
Trailer Park
Elan Memorial Cem
Cem
CANAL
Industrial Waste Ponds
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DEPARTMENT OF ENVIRONMENTAL PROTECTION

WATER MANAGEMENT SYSTEM
OPEN VIOLATIONS BY CLIENT

8/7/2024 9:52:33 AM

Client: **UMH PROP INC**

Open Violations: **23**

CLIENT ID	CLIENT	PF ID	FACILITY	PF KIND	PF STATUS	INSP PROGRAM	PROGRAM SPECIFIC ID	INSP ID	VIOLATION ID	INSPECTION CATEGORY	VIOLATION DATE	VIOLATION CODE	VIOLATION	PF INSPECTOR	INSP REGION	INSPECTED SITE ID	INSPECTED SITE
79530	UMH PROP INC	240171	UMH ARBOR ESTATES	Community	Active	Safe Drinking Water	1090007	3731069	8180104	PF	03/20/2024	B3B	FAILURE TO PROVIDE NOTIFICATION TO DEP WITHIN 1-HOUR OF DETERMINING THAT A PRIORITY VIOLATION EXISTS	MANCUSO,MICHELLE	SERO		
79530	UMH PROP INC	240171	UMH ARBOR ESTATES	Community	Active	Safe Drinking Water	1090007	3731069	8180105	PF	03/20/2024	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	MANCUSO,MICHELLE	SERO		
79530	UMH PROP INC	240171	UMH ARBOR ESTATES	Community	Active	Safe Drinking Water	1090007	3731069	8180106	PF	03/20/2024	B6A	OTHER VIOLATIONS DEEMED TO BE SIGNIFICANT DEFICIENCIES	MANCUSO,MICHELLE	SERO		
79530	UMH PROP INC	243412	UMH VALLEY STREAM	Community	Active	Safe Drinking Water	2400038	3141084	906389	PF	01/27/2021	D6A	FAILURE OF A COMMUNITY WATER SYSTEM TO DEVELOP AND/OR UPDATE AN OPERATION AND MAINTENANCE PLAN	KELLETT,GINA	NERO		
79530	UMH PROP INC	243412	UMH VALLEY STREAM	Community	Active	Safe Drinking Water	2400038	3141084	906390	PF	01/27/2021	D6E	FAILURE OF A CWS TO DEVELOP AND/OR UPDATE AN EMERGENCY RESPONSE PLAN	KELLETT,GINA	NERO		
79530	UMH PROP INC	243412	UMH VALLEY STREAM	Community	Active	Safe Drinking Water	2400038	3141084	906391	PF	01/27/2021	D6D	FAILURE TO PREPARE AND/OR MAINTAIN A SYSTEM MAP	KELLETT,GINA	NERO		
79530	UMH PROP INC	243412	UMH VALLEY STREAM	Community	Active	Safe Drinking Water	2400038	3618573	8159631	PF	09/22/2023	C1A	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	KELLETT,GINA	NERO		
79530	UMH PROP INC	243412	UMH VALLEY STREAM	Community	Active	Safe Drinking Water	2400038	3775626	8189920	PF	06/10/2024	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	KELLETT,GINA	NERO		
79530	UMH PROP INC	243412	UMH VALLEY STREAM	Community	Active	Safe Drinking Water	2400038	3775626	8189921	PF	06/10/2024	C3B	FAILURE OF A PUBLIC WATER SYSTEM TO PROVIDE THE LEVEL OF TREATMENT APPROVED IN ITS PERMIT	KELLETT,GINA	NERO		
79530	UMH PROP INC	243412	UMH VALLEY STREAM	Community	Active	Safe Drinking Water	2400038	3775626	8189922	PF	06/10/2024	B6A	OTHER VIOLATIONS DEEMED TO BE SIGNIFICANT DEFICIENCIES	KELLETT,GINA	NERO		
79530	UMH PROP INC	243412	UMH VALLEY STREAM	Community	Active	Safe Drinking Water	2400038	3775626	8189923	PF	06/10/2024	C9	EXCEEDANCE OF A SECONDARY MCL	KELLETT,GINA	NERO		
79530	UMH PROP INC	269950	OAKWOOD LAKE VILLAGE	Sewage Non-Publicly Owned (Non-Muni)	Active	WPC NPDES	PA0034088	3372841	957778	PF	06/06/2022	92A.44	NPDES - Violation of effluent limits in Part A of permit	HILL,COLIN	NERO		

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WATER MANAGEMENT SYSTEM
OPEN VIOLATIONS BY CLIENT

8/7/2024 9:52:33 AM

CLIENT ID	CLIENT	PF ID	FACILITY	PF KIND	PF STATUS	INSP PROGRAM	PROGRAM SPECIFIC ID	INSP ID	VIOLATION ID	INSPECTION CATEGORY	VIOLATION DATE	VIOLATION CODE	VIOLATION	PF INSPECTOR	INSP REGION	INSPECTED SITE ID	INSPECTED SITE
79530	UMH PROP INC	269950	OAKWOOD LAKE VILLAGE	Sewage Non-Publicly Owned (Non-Muni)	Active	WPC NPDES	PA0034088	3372841	957779	PF	06/06/2022	92A.41(A)12B	NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports	HILL,COLIN	NERO		
79530	UMH PROP INC	476995	OXFORD VILLAGE MHP	Sewage Non-Publicly Owned (Non-Muni)	Active	WPC NPDES	PA0050750	3655987	8167429	PF	12/07/2023	92A.75(A)	NPDES - Failure to submit NPDES renewal application at least 180 days prior to expiration or later approved date	MCADAMS,MICHAEL	SERO		
79530	UMH PROP INC	476995	OXFORD VILLAGE MHP	Sewage Non-Publicly Owned (Non-Muni)	Active	WPC NPDES	PA0050750	3657073	8167751	PF	12/08/2023	92A.75(A)	NPDES - Failure to submit NPDES renewal application at least 180 days prior to expiration or later approved date	MCADAMS,MICHAEL	SERO		
79530	UMH PROP INC	476995	OXFORD VILLAGE MHP	Sewage Non-Publicly Owned (Non-Muni)	Active	WPC NPDES	PA0050750	3722248	8177927	PF	03/04/2024	92A.75(A)	NPDES - Failure to submit NPDES renewal application at least 180 days prior to expiration or later approved date	MCADAMS,MICHAEL	SERO		
79530	UMH PROP INC	476995	OXFORD VILLAGE MHP	Sewage Non-Publicly Owned (Non-Muni)	Active	WPC NPDES	PA0050750	3722248	8177928	PF	03/04/2024	92A.1(B)	NPDES - Discharge of pollutants from a point source into surface waters without an NPDES permit	MCADAMS,MICHAEL	SERO		
79530	UMH PROP INC	476995	OXFORD VILLAGE MHP	Sewage Non-Publicly Owned (Non-Muni)	Active	WPC NPDES	PA0050750	3722248	8177929	PF	03/04/2024	CSL201	CSL - Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth	MCADAMS,MICHAEL	SERO		
79530	UMH PROP INC	476995	OXFORD VILLAGE MHP	Sewage Non-Publicly Owned (Non-Muni)	Active	WPC NPDES	PA0050750	3722248	8177930	PF	03/04/2024	CSL611	CSL - Failure to comply with terms and conditions of a WQM permit	MCADAMS,MICHAEL	SERO		
79530	UMH PROP INC	473075	HIGHLAND ESTATES	Sewage Non-Publicly Owned (Non-Muni)	Active	WPC NPDES	PA0070122	3597680	8154627	PF	08/02/2023	92A.62	NPDES - Failure to pay annual fee	APONTE,ADAM	SCRO		
79530	UMH PROP INC	473075	HIGHLAND ESTATES	Sewage Non-Publicly Owned (Non-Muni)	Active	WPC NPDES	PA0070122	3654670	8167165	PF	12/06/2023	92A.75(A)	NPDES - Failure to submit NPDES renewal application at least 180 days prior to expiration or later approved date	APONTE,ADAM	SCRO		
79530	UMH PROP INC	473075	HIGHLAND ESTATES	Sewage Non-Publicly Owned (Non-Muni)	Active	WPC NPDES	PA0070122	3791128	8193209	PF	07/02/2024	92A.62	NPDES - Failure to pay annual fee	APONTE,ADAM	SCRO		
79530	UMH PROP INC	467271	BROOKSIDE MHP	Sewage Non-Publicly Owned (Non-Muni)	Active	WPC NPDES	PA0112020	3374383	958250	PF	06/07/2022	92A.62	NPDES - Failure to pay annual fee	PUZIO,STEPHEN	NCRO		

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
05D	28077	Trib 28077 to Susquehanna River	**0.590**	520.00	1.41	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	0.187	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
Pleasant View	PA0113778	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	25.00	2.00	0.00	1.50
Dissolved Oxygen	3.00	8.24	0.00	0.00
NH3-N	6.00	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
05D	28077	Trib 28077 to Susquehanna River	**0.100**	516.00	1.50	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 (ºC)	Tributary pH	Stream Temp (ºC)	Stream pH
Q7-10	0.187	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 (ºC)	Disc pH
		0.0000	0.0000	0.0000	0.000	25.00	7.00

Parameter Data

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

WQM 7.0 Hydrodynamic Outputs

SWP Basin	Stream Code	Stream Name
05D	28077	Trib 28077 to Susquehanna River

RMI	Stream Flow (cfs)	PWS With (cfs)	Net Stream Flow (cfs)	Disc Analysis Flow (cfs)	Reach Slope (ft/ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (fps)	Reach Trav Time (days)	Analysis Temp (ºC)	Analysis pH
Q7-10 Flow												
0.590	0.26	0.00	0.26	.0464	0.00155	.437	7.74	17.72	0.09	0.327	20.75	7.00
Q1-10 Flow												
0.590	0.17	0.00	0.17	.0464	0.00155	NA	NA	NA	0.07	0.401	21.08	7.00
Q30-10 Flow												
0.590	0.36	0.00	0.36	.0464	0.00155	NA	NA	NA	0.11	0.281	20.57	7.00

WQM 7.0 Modeling Specifications

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	☑
WLA Method	EMPR	Use Inputted W/D Ratio	☐
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	☐
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	☑
D.O. Saturation	90.00%	Use Balanced Technology	☑
D.O. Goal	6		

WQM 7.0 D.O.Simulation

SWP Basin	Stream Code	Stream Name
05D	28077	Trib 28077 to Susquehanna River

RMI	Total Discharge Flow (mgd)	Analysis Temperature (°C)	Analysis pH
0.590	0.030	20.749	7.000
Reach Width (ft)	**Reach Depth (ft)**	**Reach WDRatio**	**Reach Velocity (fps)**
7.739	0.437	17.721	0.092
Reach CBOD5 (mg/L)	**Reach Kc (1/days)**	**Reach NH3-N (mg/L)**	**Reach Kn (1/days)**
5.44	0.945	0.90	0.742
Reach DO (mg/L)	**Reach Kr (1/days)**	**Kr Equation**	**Reach DO Goal (mg/L)**
7.458	20.635	Owens	6
Reach Travel Time (days)			
0.327			

Subreach Results

TravTime (days)	CBOD5 (mg/L)	NH3-N (mg/L)	D.O. (mg/L)
0.033	5.27	0.88	7.97
0.065	5.11	0.86	8.13
0.098	4.95	0.84	8.13
0.131	4.79	0.82	8.13
0.163	4.64	0.80	8.13
0.196	4.49	0.78	8.13
0.229	4.35	0.76	8.13
0.261	4.22	0.74	8.13
0.294	4.08	0.72	8.13
0.327	3.96	0.71	8.13

WQM 7.0 Wasteload Allocations

SWP Basin	Stream Code	Stream Name
05D	28077	Trib 28077 to Susquehanna River

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
0.590	Pleasant View	15.33	12	15.33	12	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
0.590	Pleasant View	1.82	6	1.82	6	0	0

Dissolved Oxygen Allocations

RMI	Discharge Name	CBOD5		NH3-N		Dissolved Oxygen		Critical Reach	Percent Reduction
		Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)		
0.59	Pleasant View	25	25	6	6	3	3	0	0

WQM 7.0 Effluent Limits

SWP Basin	Stream Code	Stream Name
05D	28077	Trib 28077 to Susquehanna 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)
0.590	Pleasant View	PA0113778	0.030	CBOD5	25		
				NH3-N	6	12	
				Dissolved Oxygen			3

TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

0.263	= Q stream (cfs)	0.5	= CV Daily
0.03	= 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 = 1.827	1.3.2.iii	WLA cfc = 1.773
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373	5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 0.681	5.1d	LTA_cfc = 1.031

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)