Pennsylvania Department of Environmental Protection

Northcentral Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0113824**
Facility Type	**Non-Municipal**	APS ID	**1075912**
Major / Minor	**Minor**	Authorization ID	**1417986**

Applicant and Facility Information

Applicant Name	**GSP Management Co.**	Facility Name	**Tiadaghton View MHP**
Applicant Address	P.O. Box 677	Facility Address	241 Back Street
	Morgantown, PA 19543-0677		Montoursville, PA 17754-8565
Applicant Contact	James Perano	Facility Contact	Leanne Miller
Applicant Phone	610-286-0490	Facility Phone	610-286-0940
Client ID	33789	Site ID	4159
Ch 94 Load Status	Not Overloaded	Municipality	Upper Fairfield Township
Connection Status	Not Applicable	County	Lycoming
Date Application Received	November 16, 2022	EPA Waived?	Yes
Date Application Accepted	December 07, 2022	If No, Reason	Not Applicable
Purpose of Application	Renewal of NPDES Permit		

Summary of Review

INTRODUCTION

The Chief Operating Officer (COO) of the GSP Management Company (GSP), James Perano, has proposed the renewal of the existing National Pollution Discharge Elimination System (NPDES) authorizing the discharge from the Tiadaghton View Mobile Home Park (MHP) on-site wastewater treatment plant (WWTP).

APPLICATION

James Perano submitted the NPDES Application for Individual Permit to Discharge Sewage Effluent from Minor Sewage Facilities (DEP #3800-PM-BCW0342b). This application was received by the Department on November 16, 2022, and considered administratively complete on December 07, 2022. James Perano, COO for GSP, is the client contact for the application. His contact information is (phone) 610-286-0490 X315 (fax) 610-286-0650 and (email) jperano@gspmanagement.com. The site contact is Leanne Miller, Operations Manager for GSP. Her contact information is (phone) 610-286-0490 X324, (fax) 610-286-0650 and (email) lmiller@gspmanagement.com. The application consultant is James A. Cieri, PE of James A. Cieri, PE, LLC of Harrisburg, PA. His contact information is (phone) 717-579-9496 and (email) jacpe@comcast.net.

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. The case file, permit application package and the draft permit will be available for public review at the Department's Northcentral Regional Office. The address is 208 West Third Street, Suite 101, Williamsport, PA 17701. An appointment can be made to review these materials during the comment period by calling the file coordinator at 570-327-3636.

CONTINUED on the next page.

Approve	Return	Deny	Signatures	Date
X			Jeffrey J. Gocek, EIT Project Manager	02/24/2025
X			Nicholas W. Hartranft, PE Environmental Engineer Manager	02/24/2025

DISCHARGE, RECEIVING WATERS AND WATER SUPPLY INFORMATION

Outfall No.	001	Design Flow (MGD)	0.0188
Latitude	41º 19' 14"	Longitude	-76º 54' 29"
Quad Name	Montoursville North	Quad Code	41076
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary of Loyalsock Creek	Stream Code	19869
NHD Com ID	66912523	RMI	0.50
Drainage Area	2.6	Yield (cfs/mi^2)	0.5
Q_{7-10} Flow (cfs)	0.133	Q_{7-10} Basis	USGS Gage #01552000
Elevation (ft)	615	Slope (ft/ft)	Not Applicable
Watershed No.	10-B	Chapter 93 Class.	TSF
Existing Use	Exceptional Value (EV)	Existing Use Qualifier	RBP - Antidegradation
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	Not Applicable		
Source(s) of Impairment	Not Applicable		
TMDL Status	None	Name	Not Applicable
Nearest Downstream Public Water Supply Intake	Pennsylvania-American Water Company at Milton, PA		
PWS Waters	West Branch Susquehanna River	Flow at Intake (cfs)	679.73
PWS RMI	10.66	Distance from Outfall (mi)	31

$Q_{7,10}$ DETERMINATION

The $Q_{7,10}$ is the lowest seven consecutive days of flow in a 10-year period and is used for modeling wastewater treatment plant discharges. 25 PA § 96.1 defines $Q_{7,10}$ as *the actual or estimated lowest seven consecutive day average flow that occurs once in 10 years for a stream with unregulated flow or the estimated minimum flow for a stream with regulated flow*.

Basin characteristics, for a watershed based on the discharge location, were obtained from the USGS StreamStats webpage. A nearby stream gage was selected as a reference. The selected gage is USGS #01552000 (Loyalsock Creek at Loyalsockville, PA). A $Q_{7,10}$ and drainage area for this gage were obtained from *Selected Streamflow Statistics for Streamgage Locations in and near Pennsylvania* (USGS Open Files Report 2011-1070). The drainage area at the discharge (2.6 mi^2) was determined by the *USGS Pennsylvania StreamStats* application. Knowing the drainage area at the discharge (2.6 mi^2) and both the drainage area (435 mi^2) and $Q_{7,10}$ (22.2 CFS) at the reference gage, the $Q_{7,10}$ at the discharge was calculated to be 0.132 CFS.

See Attachment 01 for the $Q_{7,10}$ determination.

CONTINUED on the next page.

TREATMENT FACILITY SUMMARY

GSP operates the Tiadaghton View MHP in Loyalsockville, PA. The MHP consists of approximately 43 units. Domestic wastewater is treated by an extended aeration WWTP which consists of a comminutor with bar screen, a 30,000-gallon aeration tank, a 3,335-gallon settling tank, a sodium hypochlorite disinfection system, a 417-gallon chlorine contact tank and a dechlorinator. The WWTP also includes a flow meter and a 1,500-gallon sludge holding tank.

See Attachment 02 for a map of the WWTP location. See Attachment 03 for a process flow diagram.

WWTP characteristics are as follows.

Waste Type	Degree of Treatment	Process Type	Disinfection	Average Annual Daily Flow (MGD)
Sewage	Secondary with Ammonia Reduction	Extended Aeration	Hypochlorite	0.0188
Hydraulic Capacity (MGD)	**Organic Capacity (lbs/day)**	**Load Status**	**Biosolids Treatment**	**Biosolids Use/Disposal**
0.0188	39.0	Not Overloaded	Aerobic Digestion	Other WWTP

The original WWTP was approved by Water Quality Management (WQM) permit #4191401, issued December 04, 1991. This permit approved the upgrade and use of an existing WWTP that was not previously permitted. Prior to this plan, the applicant decided an upgrade of the existing facilities would not be sufficient, a new WWTP was proposed. The new WWTP was approved by WQM permit amendment #4191401-A1. To comply with an Instantaneous Maximum (IMAX) limitation of 0.02 mg/L for Total Residual Chlorine, established at the last issuance, GSP obtained a Water Quality Management (WQM) permit, #4191401-A2, issued April 03, 2019 for the installation of a dechlorination system.

All sludge produced by the WWTP is hauled off-site by a contractor for disposal at a near-by WWTP.

The annual average flow of the year prior to application submission was 0.0033 MGD. The highest monthly average flow for the year prior to the application submission was 0.00588 MGD in August.

COMPLIANCE HISTORY

The WMS Query Open Violations by Client revealed 22 unresolved violations for GSP. The violations are summarized below.

#	Facility	Inspection ID	Violation ID	Program	Region	Violation
1	Pocono Manor MHP	3793633	8193700	SDW	NERO	Failure to meet design and construction standards
2	Pocono Manor MHP	3793633	8193701	SDW	NERO	Failure to operate and maintain water system
3	Sunrise Terrace MHP	3776802	8190075	SDW	NERO	Failure to meet design and construction standards
4	Sunrise Terrace MHP	3898950	8213427	SDW	NERO	Exceedance of a secondary MCL
5		3665886	8169613	WPC WQM	SERO	Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth
6		3665886	8169614	WPC WQM	SERO	Failure to comply with terms and conditions of a WQM permit
7		3665886	8169615	WPC WQM	SERO	Failure to take necessary measures to prevent pollutants from reaching waters of the Commonwealth
8		3665903	8169620	WPC WQM	SERO	Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth
9		3665903	8169621	WPC WQM	SERO	Failure to comply with terms and conditions of a WQM permit
10		3665903	8169622	WPC WQM	SERO	Failure to take necessary measures to prevent pollutants from reaching waters of the Commonwealth
11		3665903	8169623	WPC WQM	SERO	Failure to immediately report to DEP a pollution incident
12	Tiadaghton View MHP	3458751	975929	SDW	NCRO	Failure to meet design and construction standards
13	Tiadaghton View MHP	3458751	975930	SDW	NCRO	Failure to comply with a permit condition
14	Bucknell View MHP	3562261	996915	SDW	NCRO	Failure to comply with uniterrupted system service plan requirements
15	Bucknell View MHP	3562261	996918	SDW	NCRO	Failure to maintain distribution system pressure during normal operation
16	D&H Trailer Park	3561173	996722	SDW	NCRO	Failure to comply with uniterrupted system service plan requirements
17	Cedar Manor MHP	3905579	8215267	SDW	SCRO	Failure to meet design and construction standards
18	Cedar Manor MHP	3905579	8215268	SDW	SCRO	Failure to comply with uniterrupted system service plan requirements
19	Cedar Manor MHP	3905579	8215269	SDW	SCRO	Failure to meet design and construction standards
20	Cedar Manor MHP	3905579	8215270	SDW	SCRO	Failure to meet design and construction standards
21	Shady Back Acres MHP	3841070	8202713	SDW	SCRO	Other violations deemed to be significant deficiencies
22	Cedar Manor MHP	3866433	8207392	WPC NPDES	SCRO	NPDES - Violation of effluent limits in Part A of permit

CONTINUED on the next page.

Recent Discharge Monitoring Report (DMR) data is as follows.

Parameter	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24
Flow (MGD) Average Monthly	0.0028	0.0025	0.0022	0.0026	0.0021	0.0019	0.0021	0.0021	0.0027	0.0030	0.0031	0.0042
Flow (MGD) Weekly Average	0.0071	0.0051	0.0035	0.0058	0.0072	0.0047	0.0049	0.0056	0.0061	0.0031	0.0035	0.0052
pH (S.U.) Instantaneous Minimum	7.1	7.2	7.2	6.9	7.1	6.9	7.1	7.0	6.9	6.3	6.2	6.5
pH (S.U.) Instantaneous Maximum	8.0	8.0	7.8	8.0	8.0	8.0	7.8	7.7	7.4	7.2	7.2	7.3
DO (mg/L) Instantaneous Minimum	7.3	5.3	4.6	4.1	4.3	3.2	3.9	1.1	2.9	1.9	2.9	3.0
TRC (mg/L) Average Monthly	< 0.02	< 0.02	< 0.02	< 0.01	< 0.01	< 0.02	0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01
TRC (mg/L) Instantaneous Maximum	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.07	0.02	0.02	0.02
CBOD5 (mg/L) Average Monthly	< 3.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	5.0	< 5.0	< 2.0	< 2.0	3.0
TSS (mg/L) Average Monthly	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	7.0	5.0	7.0	< 6.5	6.0	8.5
Fecal Coliform (No./100 ml) Geometric Mean	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 10	< 10	< 10	1.0	7.0	> 236
Fecal Coliform (No./100 ml) Instantaneous Maximum	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.0	< 10	< 10	< 10	1.0	18	> 2420
Ammonia (mg/L) Average Monthly	< 0.1	< 0.1	< 0.1	< 0.1	< 0.3	< 0.3	0.1	< 0.1	< 0.42	< 0.4	< 0.4	< 0.4

Recent effluent limit violations area as follows.

Parameter	Date	SBC	DMR Value	Units	Limit Value
TRC	04/30/24	IMAX	0.07	mg/L	0.02
TRC	04/30/24	IMAX	0.07	mg/L	0.02
TRC	04/30/24	IMAX	0.07	mg/L	0.02

The most recent Department inspection, a Compliance Evaluation Inspection (CEI), was conducted June 10, 2024. Recent effluent limit exceedances were documented as violations. All required treatment units were online and operational at the time of the inspection. Effluent exceedances included Fecal Coliform Geometric Mean, Fecal Coliforms IMAX and TRC IMAX.

CONTINUED on the next page.

EXISTING PERMIT LIMITATIONS

Discharge Parameter	Mass Limits (lb/day)		Concentration Limits (mg/L)				Monitoring Requirements	
	Monthly Average	Weekly Average	Minimum	Monthly Average	Weekly Average	IMAX	Minimum Measurement Frequency	Required Sample Type
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	Continuous	Metered
pH (SU)	XXX	XXX	6.0	XXX	XXX	9.0	1/Day	Grab
Dissolved Oxygen	XXX	XXX	Report	XXX	XXX	XXX	1/Day	Grab
Total Residual Chlorine	XXX	XXX	XXX	XXX	XXX	0.02	1/Day	Grab
$CBOD_5$	XXX	XXX	XXX	25	XXX	50	2/Month	8 Hour Composite
Total Suspended Solids	XXX	XXX	XXX	30	XXX	60	2/Month	8 Hour Composite
Fecal Coliform (No./100mL) 05/01-09/30	XXX	XXX	XXX	200 Geo. Mean	XXX	1,000	2/Month	Grab
Fecal Coliform (No./100mL) 10/01-04/30	XXX	XXX	XXX	2,000 Geo. Mean	XXX	10,000	2/Month	Grab
Ammonia Nitrogen (05/01-10/31)	XXX	XXX	XXX	6.0	XXX	12	2/Month	8 Hour Composite
Ammonia Nitrogen (11/01-04/30)	XXX	XXX	XXX	18	XXX	36	2/Month	8 Hour Composite
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/Year	8-Hour Comp
Total Phosphorus	Report	XXX	XXX	Report	XXX	XXX	1/Year	8-Hour Comp

CONTINUED on the next page.

DEVELOPMENT OF EFFLUENT LIMITATIONS

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)

Water Quality-Based Limitations

$CBOD_5$, NH_3-N and DO

WQM 7.0 for Windows (WQM 7.0) is a DEP computer model used to determine wasteload allocations (WLAs) and effluent limitations for Carbonaceous Biochemical Oxygen Demand ($CBOD_5$), Ammonia-Nitrogen (NH_3-N) and Dissolved Oxygen (DO) for single and multiple point source discharge scenarios. This model simulates two basic processes. The NH_3-N module simulates the mixing and degradation of NH3-N in the stream and compares calculated instream NH_3-N concentrations to the water quality criteria.

The DO module simulates mixing and consumption of DO in the stream due to degradation of $CBOD_5$ and NH_3-N and compares the calculated instream DO concentrations to the water quality criteria. The model then determines the highest pollutant loading the stream can assimilate and still meet water quality criteria under design conditions.

The model recommended the following limitations.

Parameter	Effluent Limitations (mg/L)		
	30 Day Average	Maximum	Minimum
$CBOD_5$	25		
NH_3-N	13.07	26.14	
DO			3.0

See Attachment 04 for the existing WQM 7.0 model output.

Best Professional Judgment (BPJ) Limitations

In the absence of applicable effluent guidelines for the discharge or pollutant, permit writers must identify and/or develop needed technology-based effluent limitations (TBELs) TBELs on a case-by-case basis, in accordance with the statutory factors specified in the Clean Water Act.

Dissolved Oxygen

Department policy requires that a minimum limit of 4.0 mg/L be established as BPJ to ensure adequate WWTF operation and maintenance.

CONTINUED on the next page.

Seasonal Limitation

The applicable seasonal limit multiplier, in accordance with the Department's *Determining Water Quality-Based Effluent Limits* (DEP #391-2000-003), will be continued in this issuance. See below.

Parameter	Time Period	Multiplier
NH_3-N	May 1 through October 31	3.0

Anti-Backsliding

To comply with 40 CFR § 122.44(l)(1) (anti-backsliding requirements), the Department must issue a renewed permit with limitations as stringent as that the of the previous permit.

Despite recent WQM 7.0 modeling recommending less stringent Ammonia-Nitrogen limitations, the Department will again maintain the existing limitations. See below.

Parameter	Effluent Limitations (mg/L)	
	Monthly Average	IMAX
NH_3-N (05/01-10/31)	6.0	12.0
NH_3-N (11/01-04/30)	18.0	36.0

No less stringent limitations have been proposed for this draft.

DEVELOPMENT OF EFFLUENT MONITORING

E. Coli

The Department is requiring the monitoring of Eschericia coli (E.coli), a pathogenic bacterium normally found in the intestines of healthy people and animals which is used as a fecal contamination indicator in freshwater ecosystems. Section 303(c)(1) of the Clean Water Act requires that Pennsylvania periodically review and revise water quality standards, if necessary. The 2017 triennial review final form rulemaking, published in 2020, has revised the Chapter 93 water quality standards regulations for bacteria to include E. coli. To further characterize fecal contamination of surface waters during the swimming season, the Department is requiring the annual reporting of effluent E. coli effluent values. In accordance with 25 PA § 92a.61, the Department may impose reasonable monitoring requirements on pollutants which could have impact on the quality of the Commonwealth's waters or the quality of waters in other states.

REMOVAL OF EFFLUENT MONITORING

Chesapeake Bay TMDL

Despite 25 years of extensive restoration efforts, the Chesapeake Bay Total Maximum Daily Load (TMDL) was prompted by insufficient progress and continued poor water quality in the Chesapeake Bay and its tidal tributaries. This TMDL, required by the Clean Water Act, is the largest ever developed by the Environmental Protection Agency (EPA). This document identifies the necessary pollution reductions of nitrogen, phosphorus and sediment across Delaware, Maryland, New York, Virginia, West Virginia, District of Columbia and Pennsylvania. It also sets pollution limits necessary to meet applicable water quality standards in the Bay, tidal rivers and embayments.

Pennsylvania explains how and when it will meet its pollution allocations in its Watershed Implementation Plan (WIP), which is incorporated into the TMDL. Pennsylvania's permitting strategy for significant dischargers has been outlined in the Phase I WIP and incorporated in the Phase III WIP by reference, and imposes Total Nitrogen (TN) and Total Phosphorus (TP) cap loads on the significant dischargers.

Because the design of this facility is less than 0.2 MGD, the Department considers this an existing Phase 5 sewage facility for the purposes of implementing the Chesapeake Bay TMDL. According to the Department's Wastewater Supplement to Phase III WIP (last revised July 2022), renewed Phase 5 facilities are required to contain monitoring and reporting for TN and TP throughout the permit term at a frequency of no less than annually unless the facility has already conducted at least two years of nutrient monitoring.

CONTINUED on the next page.

Nutrient data was collected during the previous permit term. That data is summarized below.

Year	Parameter	Concentration (mg/L)	Mass (lb/day)
2019	Total Nitrogen	34.42	< 33.0
2019	Total Phosphorus	4.39	4.0
2020	Total Nitrogen	55.02	1.41
2020	Total Phosphorus	5.37	0.14
2021	Total Nitrogen	27.4	0.69
2021	Total Phosphorus	1.9	0.05
2022	Total Nitrogen	32.9	0.09
2022	Total Phosphorus	3.1	0.008
2023	Total Nitrogen	29.0	0.08
2023	Total Phosphorus	4.0	0.01
2024	Total Nitrogen	58.5	0.16
2024	Total Phosphorus	4.5	0.01

RECEIVING STREAM

Stream Characteristics

The receiving stream is Kaiser Hollow, tributary to Loyalsock Creek. This stream, according to 25 PA § 93.9L, is protected for Trout Stock Fishes (TSF) and Migratory Fishes (MF). These are the streams *Designated Uses*, which is defined in 25 PA § 93.1 as "those uses specified in §§ 93.9a – 93.9z for each waterbody or segment whether or not the use is being attained". Designated uses are regulations promulgated by the Environmental Quality Board (EQB) throughout the rulemaking process.

Kaiser Hollow is identified by Department stream code 19868. The stream is in (Chapter 93) drainage list L and State Water Plan 10B (Loyalsock Creek).

Impairment/TMDL

According to Department data, Kaiser Hollow is attaining its designated uses for supporting aquatic life.

Existing Use

This stream currently has an Existing Use of Exceptional Value. *Existing Use* is defined in 25 PA § 93.1 as "those uses actually attained in the waterbody on or after November 28, 1975 whether or not they are included in the water quality standards".

DEP has evaluated information indicating that the existing use of the receiving waters is different than the designated use under 25 Pa. Code § 93.9. In developing the draft NPDES permit, DEP is proposing to protect the existing use of the receiving waters. Following DEP's notice of the receipt of the application and the draft permit in the Pennsylvania Bulletin, DEP will accept written comments during the public comment period regarding DEP's tentative determination to protect the existing use. DEP will make a final determination on existing use protection for the receiving waters as part of the final permit action.

TOTAL RESIDUAL CHLORINE (ANTIDEGRADATION)

40 CFR §§ 131.12 and 131.32 require PA to adopt an anti-degradation policy and include this policy as a required element of the surface water quality standards program. According to the Department's "Water Quality Anti-Degradation Implementation Guidance" (#391-0300-002), it is the Department's policy to protect the existing uses of all surface waters and the existing quality of High Quality (HQ) and Exceptional Value (EV) waters.

The basic concept of anti-degradation is to promote the maintenance and protection of existing water quality for High Quality (HQ) and Exceptional Value (EV) waters, and protection of existing uses for all surface waters because it recognizes that existing water quality and uses have inherent value worthy of protection and preservation. As a required element of PA's water quality standards, the Anti-Degradation (Antideg) program introduces levels of protection for deserving waterbodies above the basic standards. The exception occurs, in the case of HQ waters, when the Department finds (after satisfaction of intergovernmental coordination and public participation requirements) that allowing a lower water quality is necessary to accommodate important economic or social development in the area in which the waters are located.

CONTINUED on the next page.

25 PA § 92a.48(b)(3) requires facilities located in high quality or exceptional value watersheds to cease the use of chlorine disinfection or dechlorinate when social and/or economic justification (SEJ) has not been demonstrated. A review of the facility's files does not indicate an SEJ determination was made in the past; therefore, the permit must require the facility to effectively dechlorinate the effluent or cease the use of chlorine disinfection.

Parameter	Effluent Limitations (mg/L)	
	Monthly Average	IMAX
Total Residual Chlorine		0.02

ADDITIONAL CONSIDERATIONS

Hauled-In Wastes

According to the application materials, Tiadaghton View MHP WWTP does not accept hauled-in wastes.

Whole Effluent Toxicity (WET) Testing

According to the application materials, the Tiadaghton View WWTP does not accept wastewater from industrial or commercial users. Because of this a WET test evaluation is not required.

Rounding of Limitations

Limitations have been rounded down in accordance with the Department's *Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits* (#362-0400-001).

Limit Multipliers

The instantaneous maximum limitations have been calculated using multipliers of 2.0 (for sewage discharges) for determining the IMAX. This practice is in accordance with the Department's *Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits* (#362-0400-001).

Sample Frequencies and Types

The sample type and minimum measurement frequencies are in accordance with the Department's *Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits* (#362-0400-001).

Standard Operating Procedures (SOPs)

The review of this permit application was performed in accordance with the Department's *SOP for New and Reissuance Sewage Individual NPDES Permit Applications* (unnumbered) and *SOP for Establishing Effluent Limitations for Individual Sewage Permits* (SOP #BPNPSM-PMT-033).

Special Permit Conditions

Stormwater Prohibition
Approval Contingencies
Proper Waste Disposal
Municipal Treatment Availability
Solids Management for Non-Lagoon Treatment Systems

Supplemental Discharge Monitoring Reports

Daily Effluent Monitoring
Non-Compliance Reporting
Biosolids Production and Disposal
Hauled-in Municipal Waste
Influent and Process Control
Lab Accreditation

CONTINUED on the next page.

PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The limitations and monitoring requirements specified below reflect the most stringent limitations amongst technology, water quality and BPJ.

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

Discharge Parameter	Mass Limits (lb/day)		Concentration Limits (mg/L)				Monitoring Requirements	
	Monthly Average	Weekly Average	Minimum	Monthly Average	Weekly Average	IMAX	Minimum Measurement Frequency	Required Sample Type
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	Continuous	Metered
pH (SU)	XXX	XXX	6.0 Instant. Min.	XXX	XXX	9.0	1/Day	Grab
Dissolved Oxygen	XXX	XXX	4.0 Instant. Min.	XXX	XXX	XXX	1/Day	Grab
Total Residual Chlorine	XXX	XXX	XXX	Report	XXX	0.02	1/Day	Grab
$CBOD_5$	XXX	XXX	XXX	25	XXX	50	2/Month	8 Hour Composite
Total Suspended Solids	XXX	XXX	XXX	30	XXX	60	2/Month	8 Hour Composite
Fecal Coliform (No./100mL) 05/01-09/30	XXX	XXX	XXX	200 Geo. Mean	XXX	1,000	2/Month	Grab
Fecal Coliform (No./100mL) 10/01-04/30	XXX	XXX	XXX	2,000 Geo. Mean	XXX	10,000	2/Month	Grab
Ammonia Nitrogen (05/01-10/31)	XXX	XXX	XXX	6.0	XXX	12	2/Month	8 Hour Composite
Ammonia Nitrogen (11/01-04/30)	XXX	XXX	XXX	18	XXX	36	2/Month	8 Hour Composite
E. Coli (No./100mL)	XXX	XXX	XXX	XXX	XXX	Report	1/Year	Grab

END of Fact Sheet.

Table 1. List of U.S. Geological Survey streamgage locations in and near Pennsylvania with updated streamflow statistics.—Continued

[Latitude and Longitude in decimal degrees; mi², square miles]

Streamgage number	Streamgage name	Latitude	Longitude	Drainage area (mi²)	Regulated[1]
01541303	West Branch Susquehanna River at Hyde, Pa.	41.005	-78.457	474	Y
01541308	Bradley Run near Ashville, Pa.	40.509	-78.584	6.77	N
01541500	Clearfield Creek at Dimeling, Pa.	40.972	-78.406	371	Y
01542000	Moshannon Creek at Osceola Mills, Pa.	40.850	-78.268	68.8	N
01542500	WB Susquehanna River at Karthaus, Pa.	41.118	-78.109	1,462	Y
01542810	Waldy Run near Emporium, Pa.	41.579	-78.293	5.24	N
01543000	Driftwood Branch Sinnemahoning Creek at Sterling Run, Pa.	41.413	-78.197	272	N
01543500	Sinnemahoning Creek at Sinnemahoning, Pa.	41.317	-78.103	685	N
01544000	First Fork Sinnemahoning Creek near Sinnemahoning, Pa.	41.402	-78.024	245	Y
01544500	Kettle Creek at Cross Fork, Pa.	41.476	-77.826	136	N
01545000	Kettle Creek near Westport, Pa.	41.320	-77.874	233	Y
01545500	West Branch Susquehanna River at Renovo, Pa.	41.325	-77.751	2,975	Y
01545600	Young Womans Creek near Renovo, Pa.	41.390	-77.691	46.2	N
01546000	North Bald Eagle Creek at Milesburg, Pa.	40.942	-77.794	119	N
01546400	Spring Creek at Houserville, Pa.	40.834	-77.828	58.5	N
01546500	Spring Creek near Axemann, Pa.	40.890	-77.794	87.2	N
01547100	Spring Creek at Milesburg, Pa.	40.932	-77.786	142	N
01547200	Bald Eagle Creek below Spring Creek at Milesburg, Pa.	40.943	-77.786	265	N
01547500	Bald Eagle Creek at Blanchard, Pa.	41.052	-77.604	339	Y
01547700	Marsh Creek at Blanchard, Pa.	41.060	-77.606	44.1	N
01547800	South Fork Beech Creek near Snow Shoe, Pa.	41.024	-77.904	12.2	N
01547950	Beech Creek at Monument, Pa.	41.112	-77.702	152	N
01548005	Bald Eagle Creek near Beech Creek Station, Pa.	41.081	-77.549	562	Y
01548500	Pine Creek at Cedar Run, Pa.	41.522	-77.447	604	N
01549000	Pine Creek near Waterville, Pa.	41.313	-77.379	750	N
01549500	Blockhouse Creek near English Center, Pa.	41.474	-77.231	37.7	N
01549700	Pine Creek below Little Pine Creek near Waterville, Pa.	41.274	-77.324	944	Y
01550000	Lycoming Creek near Trout Run, Pa.	41.418	-77.033	173	N
01551500	WB Susquehanna River at Williamsport, Pa.	41.236	-76.997	5,682	Y
01552000	Loyalsock Creek at Loyalsockville, Pa.	41.325	-76.912	435	N
01552500	Muncy Creek near Sonestown, Pa.	41.357	-76.535	23.8	N
01553130	Sand Spring Run near White Deer, Pa.	41.059	-77.077	4.93	N
01553500	West Branch Susquehanna River at Lewisburg, Pa.	40.968	-76.876	6,847	Y
01553700	Chillisquaque Creek at Washingtonville, Pa.	41.062	-76.680	51.3	N
01554000	Susquehanna River at Sunbury, Pa.	40.835	-76.827	18,300	Y
01554500	Shamokin Creek near Shamokin, Pa.	40.810	-76.584	54.2	N
01555000	Penns Creek at Penns Creek, Pa.	40.867	-77.048	301	N
01555500	East Mahantango Creek near Dalmatia, Pa.	40.611	-76.912	162	N
01556000	Frankstown Branch Juniata River at Williamsburg, Pa.	40.463	-78.200	291	N
01557500	Bald Eagle Creek at Tyrone, Pa.	40.684	-78.234	44.1	N
01558000	Little Juniata River at Spruce Creek, Pa.	40.613	-78.141	220	N
01559000	Juniata River at Huntingdon, Pa.	40.485	-78.019	816	LF
01559500	Standing Stone Creek near Huntingdon, Pa.	40.524	-77.971	128	N
01559700	Sulphur Springs Creek near Manns Choice, Pa.	39.978	-78.619	5.28	N
01560000	Dunning Creek at Belden, Pa.	40.072	-78.493	172	N

Table 2. Selected low-flow statistics for streamgage locations in and near Pennsylvania.—Continued

[ft³/s; cubic feet per second; —, statistic not computed; <, less than]

Streamgage number	Period of record used in analysis[1]	Number of years used in analysis	1-day, 10-year (ft³/s)	7-day, 10-year (ft³/s)	7-day, 2-year (ft³/s)	30-day, 10-year (ft³/s)	30-day, 2-year (ft³/s)	90-day, 10-year (ft³/s)
01546000	1912–1934	17	1.8	2.2	6.8	3.7	12.1	11.2
01546400	1986–2008	23	13.5	14.0	19.6	15.4	22.3	18.7
01546500	1942–2008	67	26.8	29.0	41.3	31.2	44.2	33.7
01547100	1969–2008	40	102	105	128	111	133	117
01547200	1957–2008	52	99.4	101	132	106	142	115
01547500	[2]1971–2008	38	28.2	109	151	131	172	153
01547500	[3]1956–1969	14	90.0	94.9	123	98.1	131	105
01547700	1957–2008	52	.5	.6	2.7	1.1	3.9	2.2
01547800	1971–1981	11	1.6	1.8	2.4	2.1	2.9	3.5
01547950	1970–2008	39	12.1	13.6	28.2	17.3	36.4	23.8
01548005	[2]1971–2000	25	142	151	206	178	241	223
01548005	[3]1912–1969	58	105	114	147	125	165	140
01548500	1920–2008	89	21.2	24.2	50.1	33.6	68.6	49.3
01549000	1910–1920	11	26.0	32.9	78.0	46.4	106	89.8
01549500	1942–2008	67	.6	.8	2.5	1.4	3.9	2.6
01549700	1959–2008	50	33.3	37.2	83.8	51.2	117	78.4
01550000	1915–2008	94	6.6	7.6	16.8	11.2	24.6	18.6
01551500	[2]1963–2008	46	520	578	1,020	678	1,330	919
01551500	[3]1901–1961	61	400	439	742	523	943	752
01552000	1927–2008	80	20.5	22.2	49.5	29.2	69.8	49.6
01552500	1942–2008	67	.9	1.2	3.1	1.7	4.4	3.3
01553130	1969–1981	13	1.0	1.1	1.5	1.3	1.8	1.7
01553500	[2]1968–2008	41	760	838	1,440	1,000	1,850	1,470
01553500	[3]1941–1966	26	562	619	880	690	1,090	881
01553700	1981–2008	28	9.1	10.9	15.0	12.6	17.1	15.2
01554000	[2]1981–2008	28	1,830	1,990	3,270	2,320	4,210	3,160
01554000	[3]1939–1979	41	1,560	1,630	2,870	1,880	3,620	2,570
01554500	1941–1993	53	16.2	22.0	31.2	25.9	35.7	31.4
01555000	1931–2008	78	33.5	37.6	58.8	43.4	69.6	54.6
01555500	1931–2008	78	4.9	6.5	18.0	9.4	24.3	16.6
01556000	1918–2008	91	43.3	47.8	66.0	55.1	75.0	63.7
01557500	1946–2008	63	2.8	3.2	6.3	4.2	8.1	5.8
01558000	1940–2008	69	56.3	59.0	79.8	65.7	86.2	73.7
01559000	1943–2008	66	104	177	249	198	279	227
01559500	1931–1958	28	9.3	10.5	15.0	12.4	17.8	15.8
01559700	1963–1978	16	.1	.1	.2	.1	.3	.2
01560000	1941–2008	68	8.5	9.4	15.6	12.0	20.2	16.2
01561000	1932–1958	27	.4	.5	1.6	.8	2.5	1.7
01562000	1913–2008	96	64.1	67.1	106	77.4	122	94.5
01562500	1931–1957	27	1.1	1.6	3.8	2.3	5.4	3.7
01563200	[2]1974–2008	35	—	—	—	112	266	129
01563200	[3]1948–1972	25	10.3	28.2	86.1	64.5	113	95.5
01563500	[2]1974–2008	35	384	415	519	441	580	493
01563500	[3]1939–1972	34	153	242	343	278	399	333
01564500	1940–2008	69	3.6	4.2	10.0	6.2	14.4	10.6

Q_{7-10} Analysis	
Facility:	Tiadaghton View MHP
Outfall:	001

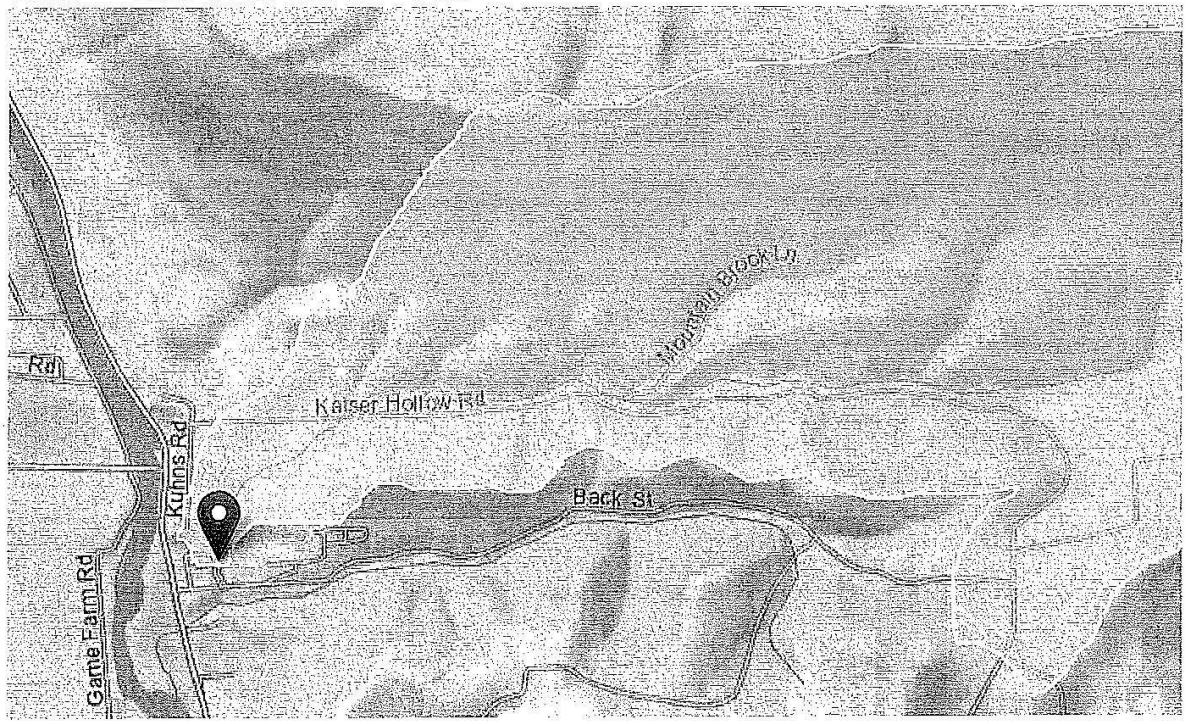
NPDES Permit No.:	PA0113824
RMI at 001:	0.50

Reference Stream Gage Information	
Stream Name	Kaiser Hollow
Reference Gage	01552000
Station Name	Loyalsock Creek at Loyalsockville, PA
Gage Drainage Area (sq. mi.)	435.00
Q_{7-10} at gage (cfs)	22.20
Yield Ratio (cfs/mi^2)	0.0510

Q7-10 at 001	
Drainage Area at 001 (sq. mi.)	2.60
Q7-10 at 001 (cfs)	0.133
Q7-10 at 001 (mgd)	0.0858

StreamStats Report

Region ID: PA
Workspace ID: PA20180402191412254000
Clicked Point (Latitude, Longitude): 41.32184, -76.90838
Time: 2018-04-02 15:14:27 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	2.6	square miles
PRECIP	Mean Annual Precipitation	43	inches
STRDEN	Stream Density -- total length of streams divided by drainage area	1.55	miles per square mile
ROCKDEP	Depth to rock	4	feet
CARBON	Percentage of area of carbonate rock	0	percent

Low-Flow Statistics Parameters [Low Flow Region 2]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	2.6	square miles	4.93	1280
PRECIP	Mean Annual Precipitation	43	inches	35	50.4
STRDEN	Stream Density	1.55	miles per square mile	0.51	3.1
ROCKDEP	Depth to Rock	4	feet	3.32	5.65
CARBON	Percent Carbonate	0	percent	0	99

Low-Flow Statistics Disclaimers [Low Flow Region 2]

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

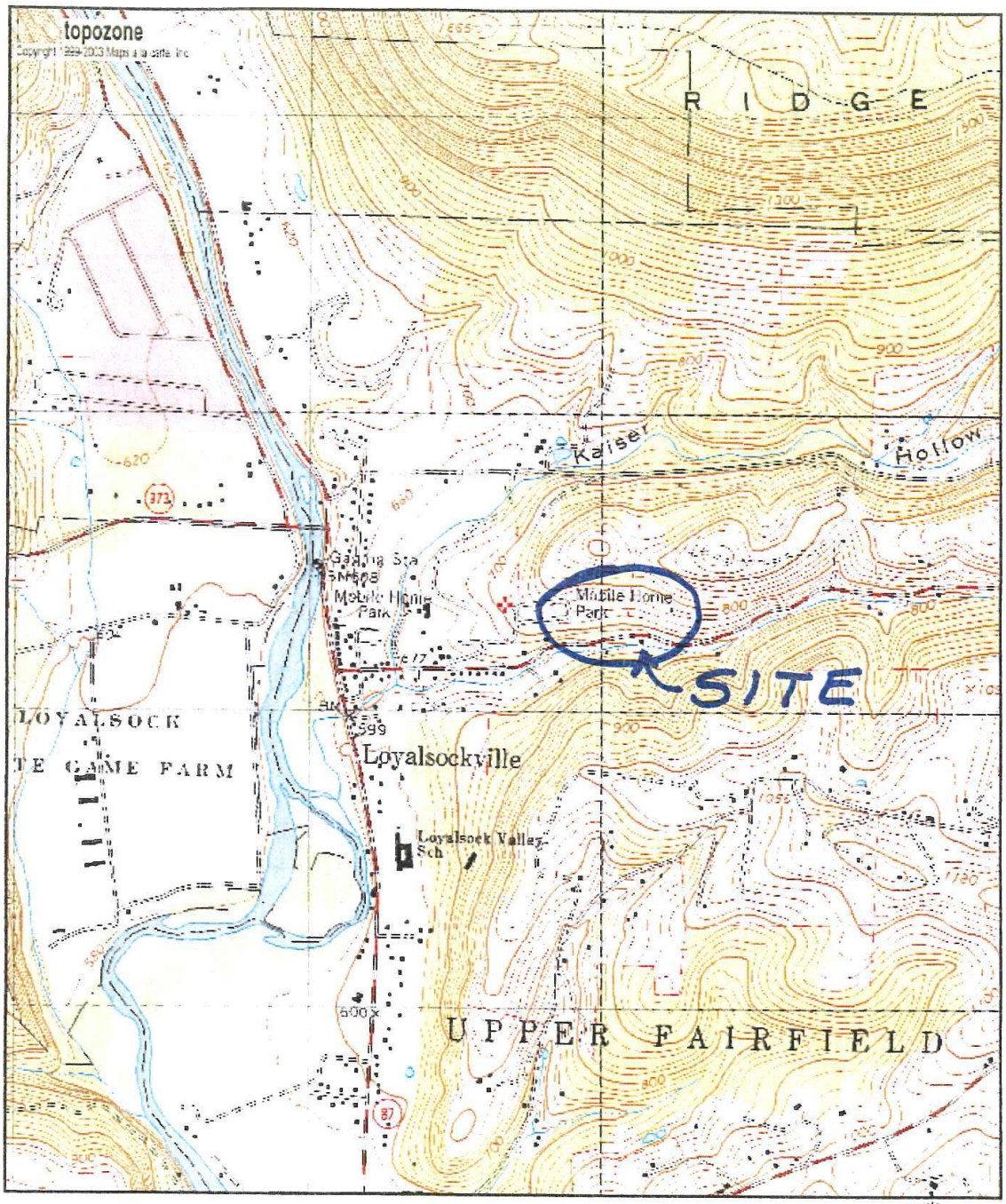
Low-Flow Statistics Flow Report [Low Flow Region 2]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.252	ft^3/s
30 Day 2 Year Low Flow	0.365	ft^3/s
7 Day 10 Year Low Flow	0.0934	ft^3/s
30 Day 10 Year Low Flow	0.138	ft^3/s
90 Day 10 Year Low Flow	0.245	ft^3/s

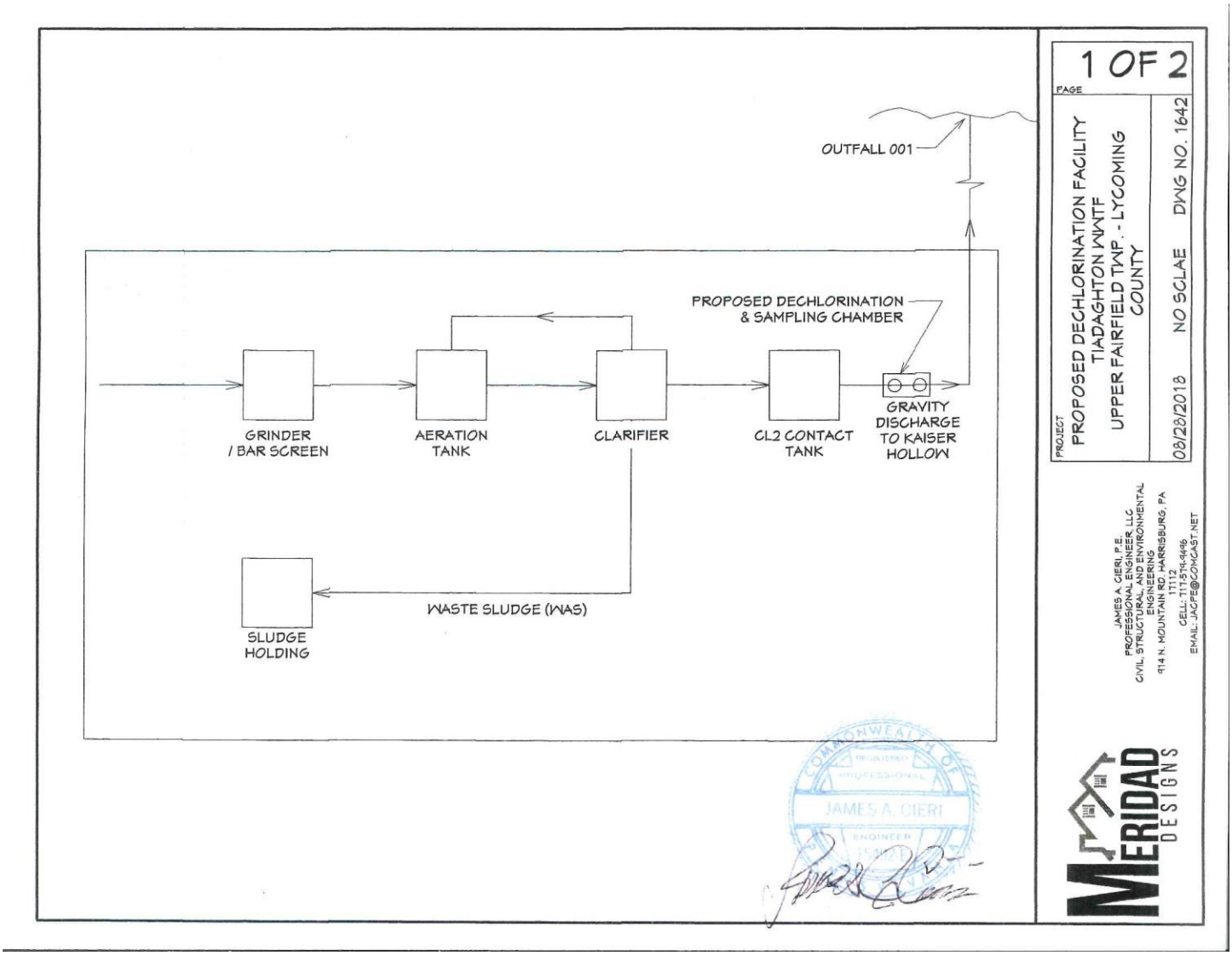
Low-Flow Statistics Citations

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/)

ATTACHMENT 02



ATTACHMENT 03



ATTACHMENT 04

WQM 7.0 Effluent Limits

SWP Basin	Stream Code	Stream Name
10B	19869	Trib 19869 to "Kaiser Hollow"

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)
0.500	TV MHP	PA0113824	0.000	CBOD5	25		
				NH3-N	13.07	26.14	
				Dissolved Oxygen			3

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
10B	19869	Trib 19869 to "Kaiser Hollow"	**0.500**	615.00	2.60	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	0.100	0.00	0.13	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
TV MHP	PA0113824	0.0000	0.0188	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

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
10B	19869	Trib 19869 to "Kaiser Hollow"	0.100	577.00	3.82	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	0.100	0.00	0.19	0.000	0.000	0.0	0.00	0.00	20.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

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

Parameter Data

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

WQM 7.0 Hydrodynamic Outputs

SWP Basin	Stream Code	Stream Name
10B	19869	Trib 19869 to "Kaiser Hollow"

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												
0.500	0.13	0.00	0.13	.0291	0.01799	.381	6.21	16.29	0.07	0.359	20.90	7.00
Q1-10 Flow												
0.500	0.08	0.00	0.08	.0291	0.01799	NA	NA	NA	0.06	0.436	21.28	7.00
Q30-10 Flow												
0.500	0.18	0.00	0.18	.0291	0.01799	NA	NA	NA	0.08	0.311	20.70	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		

Tuesday, April 03, 2018 Version 1.0b Page 1 of 1

WQM 7.0 Wasteload Allocations

SWP Basin	Stream Code	Stream Name
10B	19869	Trib 19869 to "Kaiser Hollow"

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
0.500	TV MHP	8.82	34.42	8.82	34.42	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
0.500	TV MHP	1.82	13.07	1.82	13.07	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)		
0.50	TV MHP	25	25	13.07	13.07	3	3	0	0

WQM 7.0 D.O.Simulation

SWP Basin	Stream Code	Stream Name
10B	19869	Trib 19869 to "Kaiser Hollow"

RMI	Total Discharge Flow (mgd)	Analysis Temperature (°C)	Analysis pH
0.500	0.019	20.903	7.000
Reach Width (ft)	**Reach Depth (ft)**	**Reach WDRatio**	**Reach Velocity (fps)**
6.207	0.381	16.291	0.068
Reach CBOD5 (mg/L)	**Reach Kc (1/days)**	**Reach NH3-N (mg/L)**	**Reach Kn (1/days)**
6.15	1.012	2.36	0.750
Reach DO (mg/L)	**Reach Kr (1/days)**	**Kr Equation**	**Reach DO Goal (mg/L)**
7.296	21.842	Owens	6
Reach Travel Time (days)			
0.359			

Subreach Results

TravTime (days)	CBOD5 (mg/L)	NH3-N (mg/L)	D.O. (mg/L)
0.036	5.92	2.30	7.79
0.072	5.70	2.24	8.03
0.108	5.49	2.18	8.11
0.144	5.29	2.12	8.11
0.179	5.09	2.06	8.11
0.215	4.90	2.01	8.11
0.251	4.72	1.95	8.11
0.287	4.55	1.90	8.11
0.323	4.38	1.85	8.11
0.359	4.21	1.80	8.11

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
10B	19869	Trib 19869 to "Kaiser Hollow"	**0.500**	615.00	2.60	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	0.100	0.00	0.13	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
TV MHP	PA0113824	0.0000	0.0188	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

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
10B	19869	Trib 19869 to "Kaiser Hollow"	0.100	577.00	3.82	0.00000	0.00	☑

Stream Data

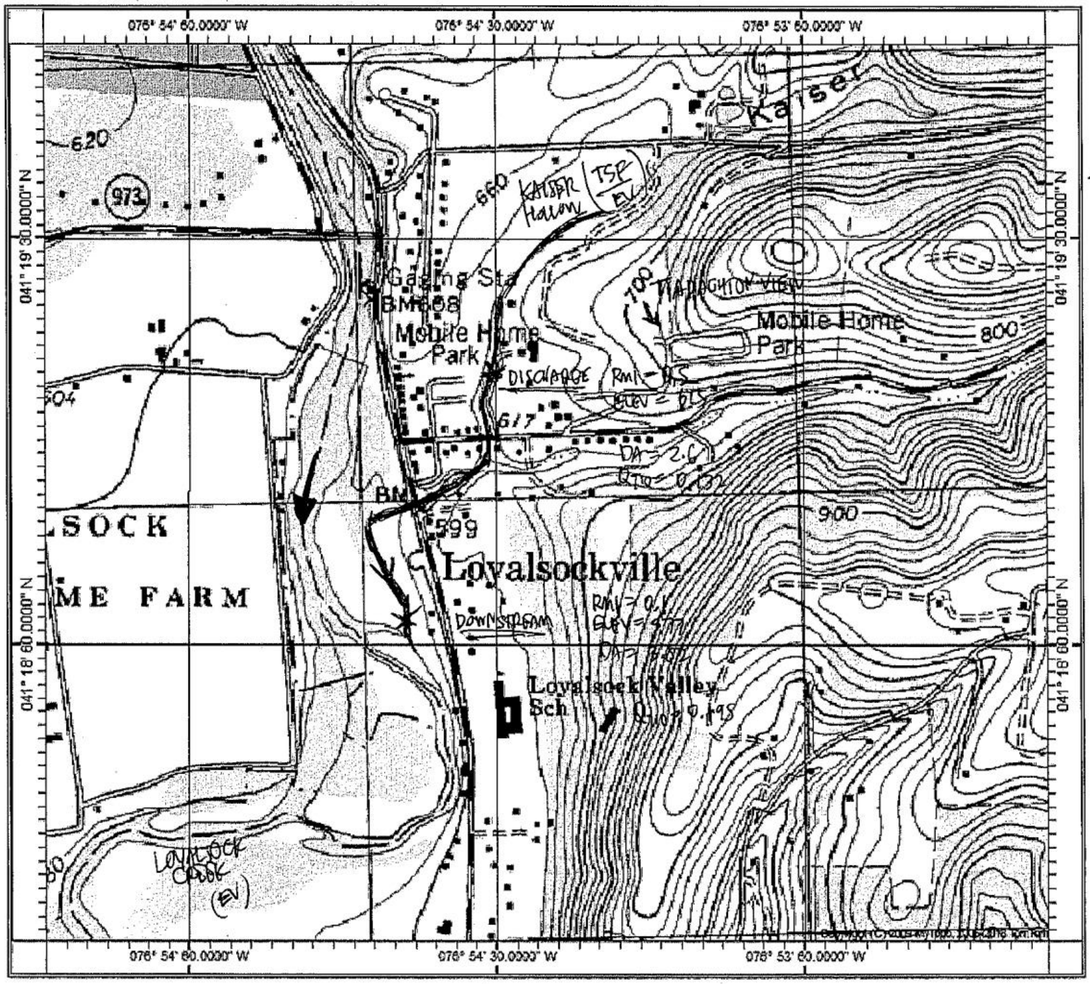
Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Tributary Temp (°C)	Tributary pH	Stream Temp (°C)	Stream pH
Q7-10	0.100	0.00	0.19	0.000	0.000	0.0	0.00	0.00	20.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
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



04/04/2018
Tiadaghton View
MHP
NPDES
PA0113824