pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0238571**
Facility Type	**Non-Municipal**	APS ID	**1000399**
Major / Minor	**Minor**	Authorization ID	**1285568**

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Applicant and Facility Information

Applicant Name	**Jones Estates Pinehurst Manor PA, LLC**	Facility Name	**Pinehurst Manor MHP**
Applicant Address	PO Box 14466	Facility Address	112 Jan Drive
	Durham, NC 27709		Butler, PA 16001
Applicant Contact	Kellen Buss, Director of Site Infrastructure	Facility Contact	David Bocci, Operator
Applicant Phone	(419) 357-9091	Facility Phone	(724) 712-3219
Client ID	366008	Site ID	451618
Ch 94 Load Status	Not Overloaded	Municipality	Center Township
Connection Status	No Limitations	County	Butler County
Date Application Received	August 9, 2019	EPA Waived?	Yes
Date Application Accepted	August 28, 2019	If No, Reason	-

Purpose of Application: Renewal of an NPDES Permit for an existing discharge of treated sanitary wastewater. Ownership is being transferred from Rhett Walls to the Jones Estates Pinehurst Manor PA, LLC.

This application was published in the PA Bulletin under the previous owner on June 12, 2021. The 30-day comment period ended on July 13, 2021.

Summary of Review

Act 14 - Proof of Notification was submitted and received.

A Part II Water Quality Management permit is not required at this time.

The Permittee should be able to continue to meet the limits of this permit, which will continue to protect the uses of the receiving stream.

I. OTHER REQUIREMENTS:

A. Stormwater into sewers
B. Right of way
C. Solids handling
D. Public sewerage availability
E. Little or no assimilative capacity or dilution

SPECIAL CONDITIONS:

II. Solids Management

There are no open violations in efacts for Client ID 366008 as of 12/13/2021.

Approve	Deny	Signatures	Date
X		Stephen A. McCauley Stephen A. McCauley, E.I.T. / Environmental Engineering Specialist	12/8/2021
X		Justin C. Dickey Justin C. Dickey, P.E. / Environmental Engineer Manager	12/14/2021

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.014
Latitude	40º 56' 48.10"	Longitude	-79º 56' 58.29"
Quad Name	-	Quad Code	-
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary to the Stony Run (WWF)	Stream Code	N/A
NHD Com ID	126221009	RMI	N/A
Drainage Area	0.06	Yield (cfs/mi^2)	0.047 (Buffalo Cr. 1976-1996)
Q_{7-10} Flow (cfs)	0.0028	Q_{7-10} Basis	calculated
Elevation (ft)	1260	Slope (ft/ft)	0.02228
Watershed No.	20-C	Chapter 93 Class.	WWF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired*		
Cause(s) of Impairment	Metals		
Source(s) of Impairment	Acid Mine Drainage		
TMDL Status	Pending	Name	-

Background/Ambient Data		Data Source
pH (SU)	-	-
Temperature (°F)	-	-
Hardness (mg/L)	-	-
Other:	-	-

Nearest Downstream Public Water Supply Intake	Beaver Falls Municipal Authority		
PWS Waters	Beaver River	Flow at Intake (cfs)	561
PWS RMI	3.5	Distance from Outfall (mi)	49.0

* - This facility is not expected to discharge Aluminum, Iron, and Manganese in any significant quantities. However, per the previous renewal, which was based on the SOP, monitoring for Aluminum, Iron, and Manganese will be retained.

Sludge use and disposal description and location(s): Sludge is not used, it is disposed of at a certified landfill.

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.

Narrative: This Fact Sheet details the determination of draft NPDES permit limits for an existing discharge of 0.014 MGD of treated sewage from an existing non-municipal STP serving a MHP in Center Township, Butler County.

Permitted treatment consists of: (WQM Permit no. 1001415) A 9,760 gallon aerated equalization tank with dual grinder pumps, two 11,387 gallon Sequential Batch Reactor (SBR) tanks in parallel, a 4,880 aerated sludge thickening/holding tank, a 4,880 gallon aerated effluent pump tank, and ultraviolet (UV) light disinfection.

1. Streamflow:

The yieldrate for the receiving stream at Outfall 001 was calculated from the nearest gage station details:

Buffalo Creek at Freeport, PA (1976-1996):	Q_{7-10}:	6.37	cfs	(from StreamStats)
(USGS Gage 03049000)	Drainage Area:	137	sq. mi.	(from StreamStats)
	Yieldrate:	0.047	cfsm	calculated
Unnamed Tributary to the	Yieldrate:	0.047	cfsm	(calculated above)
Stoney Run at Outfall 001:	Drainage Area:	0.06	sq. mi.	(from StreamStats)
	Q_{7-10}:	0.0028	cfs	calculated

2. Wasteflow: Outfall 001

Maximum discharge: 0.014 MGD = 0.021 cfs

Runoff flow period: 24 hours Basis: STP with flow equalization

There is less than 3 parts stream flow (Q7-10) to 1 part effluent (design flow) at the discharge point. However, since this is an existing discharge, the more stringent treatment requirements cannot be achieved, and the receiving stream is not impaired by the discharge, the treatment requirements in document number 391-2000-014, titled, “Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers”, dated April 12, 2008, will not be implemented in this NPDES Permit.

3. Parameters:

The following parameters were evaluated: pH, Total Suspended Solids, Fecal Coliform, Phosphorus, NH_3-N, $CBOD_5$, Dissolved Oxygen, and Total Residual Chlorine. NH_3-N, $CBOD_5$, and Dissolved Oxygen were evaluated using WQM 7.0 at the discharge point.

NO_2-NO_3, Fluoride, Phenolics, Sulfates, and Chlorides can be evaluated using PentoxSD at the nearest downstream potable water supply (PWS). Since there is significant dilution available, no modeling was performed for this facility.

a. pH

Between 6.0 and 9.0 at all times

Basis: Application of Chapter 93.7 technology-based limits. The measurement frequency was increased from 1/week to 1/day as recommended in the SOP, based on Table 6-3 in the “Technical Guidance for the Development and Specification of Effluent Limitations” (362-0400-001).

b. Total Suspended Solids

Limits are 30 mg/l as a monthly average and 60 as a daily maximum.

Basis: Application of Chapter 92a47 technology-based limits

c. Fecal Coliform

05/01 - 09/30: 200/100ml (monthly average geometric mean)
1,000/100ml (instantaneous maximum)

10/01 - 04/30: 2,000/100ml (monthly average geometric mean)
10,000/100ml (instantaneous maximum)

Basis: Application of Chapter 92a47 technology-based limits.

d. E. Coli

Monitoring was added for E. Coli at a frequency of 1/year.

Basis: Application of Chapter 92a.61 as recommended by the SOP for flows between 0.002 MGD and 0.05 MGD.

e. Phosphorus

☐ Limit not necessary

Basis: N/A

☒ Limit necessary due to:

☐ Discharge to a lake, pond, or impoundment
☒ Discharge to a stream
☐ Discharge to a dry stream

Basis: The previous Phosphorus limit of 2.0 mg/l will be retained based on Chapter 96.5 due to the discharge flowing downstream to the Connoquenessing Creek, which is impaired for nutrients.

f. Total Nitrogen

☒ Limit not necessary

Basis: The previous monitoring for Total Nitrogen will be retained in accordance with the SOP, based on Chapter 92a.61.

☐ Limit necessary due to:

☐ Discharge to a lake, pond, or impoundment
☐ Discharge to a stream
☐ Discharge to a dry stream

Basis: N/A

g. NO_2-NO_3, Fluoride, Phenolics, Sulfates, and Chlorides

Nearest Downstream potable water supply (PWS): Beaver Falls Municipal Authority

Distance downstream from the point of discharge: 49.0 miles (approximate)

☒ No limits necessary
☐ Limits needed

Basis: Significant dilution available.

h. Ammonia-Nitrogen (NH_3-N)

Median discharge pH to be used: 6.5 Standard Units (S.U.)

Basis: Average pH value from DMR summary

Discharge temperature: 25°C (default value used in the absence of data)

Median stream pH to be used: 7.0 Standard Units (S.U.)

Basis: Default value used in the absence of data

Stream Temperature: 25˚C (default value used for WWF modeling)

Background NH_3-N concentration: 0.1 mg/l

Basis: Default value used in the absence of data

calculated summer NH_3-N limits: 2.0 mg/l (monthly average)
4.0 mg/l (instantaneous maximum)

calculated winter NH_3-N limits: 6.0 mg/l (monthly average)
12.0 mg/l (instantaneous maximum)

Result: WQ modeling resulted in the calculated summer limits above (see Attachment 1), which are more restrictive than in the previous NPDES Permit. The winter limits are calculated as three times the summer limits. However, since the previous NH3-N limits of 1.5 mg/l monthly average (summer) and 4.5 mg/l monthly average (winter) are attainable, they will be retained with this renewal.

i. $CBOD_5$

Median discharge pH to be used: 6.5 Standard Units (S.U.)

Basis: Average pH value from DMR summary

Discharge temperature: 25°C (default value used in the absence of data)

Median stream pH to be used: 7.0 Standard Units (S.U.)

Basis: Default value used in the absence of data

Stream Temperature: 25˚C (default value used for WWF modeling)

Background $CBOD_5$ concentration: 2.0 mg/l

Basis: Default value used in the absence of data

calculated summer $CBOD_5$ limits: 25.0 mg/l (monthly average)
50.0 mg/l (instantaneous maximum)

calculated winter $CBOD_5$ limits: 25.0 mg/l (monthly average)
50.0 mg/l (instantaneous maximum)

Result: WQ modeling resulted in the calculated summer limits above (see Attachment 1), which are the same as the previous NPDES Permit. The winter limits are calculated as three times the summer limits, but since the technology-based limits are more protective, they will be used. Since the summer limits and the winter limits are the same, the limits for $CBOD_5$ will be set year-round as in the previous NPDES Permit.

j. Dissolved Oxygen (DO)

- ☐ 4.0 mg/l - minimum desired in effluent to protect all aquatic life.
- ☒ 5.0 mg/l - desired in effluent for CWF, WWF, or TSF.
- ☐ 6.0 mg/l - minimum required due to discharge going to a drainage swale or ditch.
- ☐ 8.0 mg/l - required due to discharge going to a naturally reproducing salmonid stream

Discussion: The technology-based minimum of 5.0 mg/l is recommended by the WQ Model (see Attachment 1) and the SOP based on Chapter 93.7, under the authority of Chapter 92a.61. The Dissolved Oxygen minimum of 5.0 mg/l will be retained with this renewal. The measurement frequency was increased from 1/week to 1/day as recommended in the SOP, based on Table 6-3 in the "Technical Guidance for the Development and Specification of Effluent Limitations" (362-0400-001).

k. Total Residual Chlorine (TRC)

☒ No limit necessary

☐ TRC limits: _____ mg/l (monthly average)

_____ mg/l (instantaneous maximum)

Basis: TRC limits are not required as Ultraviolet (UV) light disinfection is used at this facility. Monitoring for UV light intensity will be retained with this renewal. The measurement frequency was increased from 1/week to 1/day as recommended in the SOP, based on Table 6-3 in the "Technical Guidance for the Development and Specification of Effluent Limitations" (362-0400-001).

l. Anti-Backsliding

Since all the permit limits in this renewal are the same or more restrictive than the previous NPDES Permit, anti-backsliding is not applicable.

4. Attachment List:

Attachment 1 - WQ Modeling Printouts

(The Attachments above can be found at the end of this document)

Compliance History

DMR Data for Outfall 001 (from November 1, 2020 to October 31, 2021)

Parameter	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20
Flow (MGD) Average Monthly	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Flow (MGD) Daily Maximum	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
pH (S.U.) Minimum	6.5	6.5	6.0	6.5	6.5	6.0	6.5	6.5	6.5	6.0	6.0	6.0
pH (S.U.) Maximum	7.0	7.0	7.0	7.0	7.5	7.0	7.5	7.0	7.0	7.5	7.5	7.0
DO (mg/L) Minimum	5.4	5.5	5.8	5.6	5.6	5.7	5.7	6.0	5.7	5.5	6.3	5.5
CBOD5 (mg/L) Average Monthly	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.7	3.3	3.0
TSS (mg/L) Average Monthly	3.0	5.0	3.0	3.0	3.0	4.5	3.0	3.0	7.5	8.5	5.0	5.5
Fecal Coliform (CFU/100 ml) Geometric Mean	135	33	113	2	11	10	2	3	19	257	1253	43
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	262	102	388	2	19	16	4	4	34	326	2420	613
UV Intensity (µw/cm²) Average Monthly	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200
Total Nitrogen (mg/L) Average Monthly	49.1	4.0	41.9	31.2	48.0	40.7	41.9	35.4	47.4	45.6	27.9	40.9
Ammonia (mg/L) Average Monthly	0.2	0.4	0.3	0.5	0.7	0.2	0.3	0.2	0.4	0.3	0.3	0.2
Total Phosphorus (mg/L) Average Monthly	2.2	2.0	1.0	0.9	1.5	1.7	2.2	1.9	1.0	2.1	2.4	2.0
Total Aluminum (mg/L) Average Monthly											0.70	
Total Iron (mg/L) Average Monthly											0.07	
Total Manganese (mg/L) Average Monthly											0.02	

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" (362-0400-001), 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 Inst 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-Nitrogen Nov 1 - Apr 30	XXX	XXX	XXX	4.5	XXX	9	2/month	8-Hr Composite
Ammonia-Nitrogen May 1 - Oct 31	XXX	XXX	XXX	1.5	XXX	3	2/month	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	2.0	XXX	4	2/month	8-Hr Composite
Total Aluminum	XXX	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	8-Hr Composite

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

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Total Iron	XXX	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	8-Hr Composite
Total Manganese	XXX	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	8-Hr Composite

Compliance Sampling Location: at Outfall 001, after Ultraviolet (UV) light disinfection.

Flow, UV intensity, and Total Nitrogen are monitor only based on Chapter 92a.61. The limits for pH are technology-based on Chapter 93.7. The limits for $CBOD_5$, Total Suspended Solids, Dissolved Oxygen, and Fecal Coliform are technology based on Chapter 92a.47. The limits for Ammonia-Nitrogen are water quality-based on Chapter 93.7. The Total Phosphorus limit is technology-based on Chapter 96.5. Monitoring for E. Coli, Total Aluminum, Total Iron, and Total Manganese is based on Chapter 92a.61.

Attachment 1

WQM 7.0 Effluent Limits

SWP Basin	Stream Code	Stream Name
20C	35275	STONY 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)
0.680	Pinehurst Manor	PA0238571	0.014	CBOD5	25		
				NH3-N	2.06	4.12	
				Dissolved Oxygen			5

WQM 7.0 D.O.Simulation

SWP Basin	Stream Code	Stream Name
20C	35275	STONY RUN

RMI	Total Discharge Flow (mgd)	Analysis Temperature (°C)	Analysis pH
0.680	0.014	25.000	6.536
Reach Width (ft)	**Reach Depth (ft)**	**Reach WDRatio**	**Reach Velocity (fps)**
1.434	0.309	4.647	0.055
Reach CBOD5 (mg/L)	**Reach Kc (1/days)**	**Reach NH3-N (mg/L)**	**Reach Kn (1/days)**
22.35	1.466	1.82	1.029
Reach DO (mg/L)	**Reach Kr (1/days)**	**Kr Equation**	**Reach DO Goal (mg/L)**
5.374	30.922	Owens	5
Reach Travel Time (days)			
0.751			

Subreach Results

TravTime (days)	CBOD5 (mg/L)	NH3-N (mg/L)	D.O. (mg/L)
0.075	19.46	1.69	6.20
0.150	16.94	1.56	6.51
0.225	14.75	1.45	6.74
0.301	12.84	1.34	6.94
0.376	11.18	1.24	7.12
0.451	9.73	1.15	7.27
0.526	8.47	1.06	7.40
0.601	7.37	0.98	7.52
0.676	6.42	0.91	7.54
0.751	5.59	0.84	7.54

WQM 7.0 Wasteload Allocations

SWP Basin	Stream Code	Stream Name
20C	35275	STONY 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
0.680	Pinehurst Manor	8.32	9.01	8.32	9.01	1	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
0.680	Pinehurst Manor	1.75	2.06	1.75	2.06	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)		
0.68	Pinehurst Manor	25	25	2.06	2.06	5	5	0	0

WQM 7.0 Hydrodynamic Outputs

SWP Basin	Stream Code	Stream Name
20C	35275	STONY 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												
0.680	0.00	0.00	0.00	.0217	0.02228	.309	1.43	4.65	0.06	0.751	25.00	6.54
Q1-10 Flow												
0.680	0.00	0.00	0.00	.0217	0.02228	NA	NA	NA	0.05	0.769	25.00	6.52
Q30-10 Flow												
0.680	0.00	0.00	0.00	.0217	0.02228	NA	NA	NA	0.06	0.734	25.00	6.55

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		

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
20C	35275	STONY RUN	**0.680**	1260.00	0.06	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	0.047	0.00	0.00	0.000	0.000	0.0	0.00	0.00	25.00	7.00	25.00	7.00
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
Pinehurst Manor	PA0238571	0.0140	0.0000	0.0000	0.000	25.00	6.50

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	4.00	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
20C	35275	STONY RUN	**0.000**	1180.00	0.28	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	0.047	0.00	0.00	0.000	0.000	0.0	0.00	0.00	25.00	7.00	25.00	7.00
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	0.00	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