pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0091316**
Facility Type	**Non-Municipal**	APS ID	**1075073**
Major / Minor	**Minor**	Authorization ID	**1416520**

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Applicant and Facility Information

Applicant Name	**Barbara J & Edward J Tanski**	Facility Name	**Buttercup Woodlands Campground**
Applicant Address	854 Evans City Road	Facility Address	854 Evans City Road
	Renfrew, PA 16053-9206		Renfrew, PA 16053-9206
Applicant Contact	Edward Tanski	Facility Contact	
Applicant Phone	(724) 290-0682	Facility Phone	
Applicant E Mail	edtanski@zoominternet.net	Facility E Maik	
Client ID	142759	Site ID	241701
Municipality	Connoquenessing Township	County	Butler
Ch 94 Load Status	Not Overloaded	Connection Status	
Date Application Received	November 1, 2022	EPA Waived?	Yes
Date Application Accepted	November 23, 2022	If No, Reason	
Purpose of Application	NPDES renewal		

Summary of Review

No violations on file and in compliance since 2015.

Sludge use and disposal description and location(s): 7,500-gallons hauled off-site by Cousins Sanitary.

Public Participation

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

Approve	Deny	Signatures	Date
X		William H. Mentzer William H. Mentzer, P.E. Environmental Engineering Specialist	November 29, 2022
X		Vacant Environmental Engineer Manager	Okay to Draft JCD 12/8/2022

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.04
Latitude DP	40º 51' 16.00"	Longitude DP	-79º 59' 33.00"
Latitude NHD	40º 51' 16.14"	Longitude NHD	-79º 59' 55.80"
Quad Name	Butler	Quad Code	1206

Wastewater Description: Treated campground domestic wastes

Receiving Waters	Unnamed Trib L Connoquenessing	Stream Code	unknown
NHD Com ID	126217465	RMI	0.4
Drainage Area	0.1	Yield (cfs/mi^2)	0
Q_{7-10} Flow (cfs)	0	Q_{7-10} Basis	Dry stream
Elevation (ft)	1161.39	Slope (ft/ft)	0.00947
Watershed No.	20-C	Chapter 93 Class.	CWF
Existing Use		Existing Use Qualifier	none
Exceptions to Use	none	Exceptions to Criteria	none

Comments: The TMDL is for a downstream segment impacted by abandoned mine drainage.
Perennial stream flow is based on USGS Sta 03106500 Slippery Rock Creek at Wurttenburg.
Drainage swale confluence tributary 34990 RMI 0.67 Drainage 1.24 square mile Elevation 1044.21 feet
Tributary mouth Drainage 2,83 square miles Elevation 994.73 Basin Drainage 19.26 square miles

Low Flow Basis: Slippery Rock Creek at Wurtemburg No: 03106500 Period of Record 1913-1996
Low Flow (cfs) 30.2 Drainage (sq mi) 3908 Yield (cgs/sq-mi) 0.07588

Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status	Final	Name	Little Connoquenessing Creek Watershed

Background/Ambient Data		Data Source
pH (SU)	7.4	1988 review
Temperature (°F)	20	Cold Water Fishery default
Hardness (mg/L)	100	default
5-day CBOD (mg/L):	2.0	default

Nearest Downstream Public Water Supply Intake: Harmony Borough Water Authority

PWS Waters	Little Connoquenessing Creek	Flow at Intake (cfs)	5.33
PWS RMI	1.28	Distance from Outfall (mi)	10.66

Changes Since Last Permit Issuance: none

Other Comments: Lower Little Connoquenessing Creek is AMD impaired.

Treatment Facility Summary

Treatment Facility Name: Buttercup Woodlands Campground

WQM Permit No.	Issuance Date
1080401	
1080401-T1	
1080401-A1–T1	

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary with Ammonia and Phosphorus	Extended Aeration	Hypochlorite	0.04

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.04	200	Not Overloaded		Off site

Changes Since Last Permit Issuance: none

Other Comments:

Twin parallel systems consisting of comminution, flow splitting, chemical addition, aeration, settling, rapid sand filtration, and chlorine disinfection. Only one treatment train is installed.

WQM SPECIAL CONDITIONS

A. This permit is issued for a staged development type treatment plant. A comminutor, flow splitter, extended aeration sewage treatment plant with a rapid sand filter, and all other required units shall be built initially to serve the campground. Water meter usage records shall be monitored and recorded daily. Monthly average flow shall be calculated taking the average of all flows recorded Thursday, Friday, Saturday, and Sunday for the entire month and reported on the monthly DMRs. Once the monthly average flow for any given month exceeds 0.02 MGD, the permittee shall begin construction of the second treatment train consisting of identical units for tertiary treatment within 60 days. Thus, there will be two tertiary treatment trains upon completion of the proposed stage development.

I. TREATMENT PLANT INSTALLATION

A. The permittee shall install and operate the two tertiary treatment plants as required by Special Condition Letter A in Water Quality Management Permit No. 1080401-A1–T1. Failure to timely construct and operate the second tertiary treatment unit when necessary will result in a condition of hydraulic overload for the existing facility.

Compliance History

DMR Data for Outfall 001 (from October 1, 2021 to September 30, 2022)

Parameter	SEP-22	AUG-22	JUL-22	JUN-22	MAY-22	APR-22	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21
Flow (MGD) Average Monthly	0.001	0.001	0.001	0.001	0.001	0.001						0.001
pH (S.U.) Minimum	6.9	6.8	7.20	6.40	6.8	6.9						7.4
pH (S.U.) Maximum	7.3	7.0	7.30	6.60	7.10	6.9						7.60
DO (mg/L) Minimum	7.0	7.70	5.5	6.20	5.4	5.0						7.0
TRC (mg/L) Average Monthly	0.1	0.1	0.1	0.1	0.1	0.1						0.1
TRC (mg/L) Instantaneous Maximum	0.2	0.2	0.2	0.2	0.2	0.2						0.1
CBOD5 (mg/L) Average Monthly	4.0	4.0	4.0	4.0	12.0	20						7.3
TSS (mg/L) Average Monthly	5.0	5.0	5.0	10.5	8.0	14.0						9.0
Fecal Coliform (CFU/100 ml) Geometric Mean	180	180	180	160	140	1900						60.0
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	400	500	400	400	400	2420						75.0
Total Nitrogen (mg/L) Average Quarterly	13.7			2.47						8.0		
Ammonia (mg/L) Average Monthly	2.2	2.2	2.0	1.77	2.2	0.30						2.2
Total Phosphorus (mg/L) Average Monthly	2.0	1.8	1.9	1.88	1.38	1.8						1.8

Median summer pH 7.1 annual pH 7.0 SU

Compliance History

No violations reported

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .04
Latitude 40º 51' 16.00" **Longitude** -79º 59' 55.80"
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)
DO4.0		Daily Minimum		BPJ
E Coli	Monitor			new

Comments: E Coli monitoring proposed.

Water Quality-Based Limitations

A Sewerage program based “Reasonable Potential Analysis” determined the following parameters were candidates for limitations: Flow, CBOD5, TSS, Nitrogen, Phosphorus, ammonia, Total Residual Chlorine and pH.

CBOD5, ammonia, and DO water quality requirements are from DOSAG modelling. Phosphorus requirements are from the Connoquenessing basin implementation plan. CBOD5, TSS, and pH are secondary treatment based.

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

Parameter		Limit (mg/l)			SBC	Model		
CBOD5			25.0	50.0			25.0	50.0
Ammonia	Summer		2.5	5.0			3.9	7,.8
Ammonia	Winter		7.5	15.0			11.7	23.4
DO		4.0				4.0		
TRC			0.5	1.6				

Comments:

TRC spreadsheet was used to evaluate chlorine. Chlorine should be rapidly dissipated in the primary dry stream reach and not impact any downstream aquatic life. Sufficient dilution is available in the perennial stream reach to protect aquatic life.

The receiving waters have two interacting discharges, Brandy One and Buttercup Woodlands. Design flows were evaluated. Brandy One data was not updated. The sole Buttercup Woodlands change was an effluent pH increase from 6.8 to 7.1 SU. The revised WQM 7.1 model was used changing the ammonia requirements slightly. Earlier modelling used lower basin yields based on Buffalo Creek near Freeport with WQM 7.0 (2.73-mg/L effluent ammonia) and the average of Thorn Creek at McBride and Connoquenessing Creek at Zelienople with WQM 6.3 (2.56-mg/L ammonia with WQM 7.0). All previous modelling verified the 2.5-mg/L summer ammonia requirements.

DOSAG modelling was not adjusted for the 0.4-mile dry stream natural decay.

Best Professional Judgment (BPJ) Limitations

Comments: For DO only

Anti-Backsliding

As the facility reports no violations no action is necessary.

1A	B	C	D	E	F	G	H	I	J	K	L	M
	Discharger		Buttercup Woodlands Campground						Thursday, November 17, 2022			
	Site		Buttercup Woodlands CampgroundSTP					Revised	Wednesday, November 23, 2022			
	Municipality		Connoquenessing Township									
	County		Butler									
	NPDES Permit		PA009131									
	0.5											
2			**TRC EVALUATION**									
3	Input appropriate values in B4:B8 and E4:E7											
4	1.4614		**= Q stream (cfs)**			**0.5**	**= CV Daily**					
5	0.0250		**= Q discharge (MGD)**			**0.5**	**= CV Hourly**					
6	30		**= no. samples**			**1**	**= AFC_Partial Mix Factor**					
7	0.3		**= Chlorine Demand of Stream**			**1**	**= CFC_Partial Mix Factor**					
8	0		**= Chlorine Demand of Discharge**			**15**	**= AFC_Criteria Compliance Time (min)**					
9			**= BAT/BPJ Value**			**720**	**= CFC_Criteria Compliance Time (min)**					
	0		**= % Factor of Safety (FOS)**				**=Decay Coefficient (K)**					
10	Source		Reference	AFC Calculations			Reference		CFC Calculations			
11	TRC		**1.3.2.iii**	WLA afc = 12.073			**1.3.2.iii**		WLA cfc = 11.763			
12	PENTOXSD TRG		**5.1a**	LTAMULT afc = 0.373			**5.1c**		LTAMULT cfc = 0.581			
13	PENTOXSD TRG		**5.1b**	LTA_afc= 4.499			**5.1d**		LTA_cfc = 6.838			
14												
15	Source					Effluent Limit Calculations						
16	PENTOXSD TRG		5.1f			AML MULT = 1.231						
17	PENTOXSD TRG		5.1g			AVG MON LIMIT (mg/l) = 0.500			BAT/BPJ			
18						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)**

(0.011/EXP(-K*CFC_tc/1440))+(((CFC_Yc*Qs*0.011)/(1.547*Qd)....
....*EXP(-K*CFC_tc/1440)))+Xd+(CFC_Yc*Qs*Xs/1.547*Qd))*(1-FOS/100)

				Chlorine Required =	perennial	Chlorine Demand +	Chlorine Residual
Stream	Reach/Node			2	1	2	
Stream	Flow	Conditions			dry	perennial	
Stream	Code				unknown	34990	
	Function						
Samples					30	30	
reach	outfall		RMI		0.40	0.67	
	Reach End		RMI		0	0	
reach			feet		2112	3537.6	
drainage			sq miles		0.12	19.26	
TRC	limitation	average	mg/L		0.030	0.500	
		maximum	mg/L		0.099	1.636	
elevation		modelled	feet		1161.391	1044.21	
elevation		modelled	feet		1044.21	994.73	
slope		modelled	foot/foot		0.055	0.014	
low flow			cfs/sq mi		0.076	0.076	
discharge			mgd		0.0400	0.0250	
Runoff	Period		hours		24.000	24.000	

Reach 1 Dry drainage swale discharge with no aquatic life to protect. Reach 2 Perennial stream with sufficient flow to allow a 0.5-mg/L BAT TRC discharge.

stream	flow		cfs	0.00911	1.46144
stream	flow		MGD	0.005885	0.944552
stream	flow	total	MGD	0.045885	0.969552
stream	chlorine	demand	mg/L	0.3	0.3
discharge	discharge	demand	mg/L		
stream	Total Stream/Waste		ratio	1.1	38.8

BAT	TRC	mean	BAT	0.5	0.5
BAT	TRC	maximum	BAT	1.6	1.6

Municipality

	B	C	D	E	F	G	H	I	J	K	L	M

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	34990	Trib 34990 to Ltl Connoquenes'ng Cr	**1.030**	1084.00	0.82	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	0.076	0.00	0.00	0.000	0.000	0.0	0.00	0.00	20.00	7.40	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
Brandy One	PA00238686	0.0239	0.0239	0.0239	0.000	20.00	7.30

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	0.10	0.00	0.70

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
20C	34990	Trib 34990 to Ltl Connoquenes'ng Cr	**0.670**	1044.21	1.24	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	0.076	0.00	0.00	0.000	0.000	0.0	0.00	0.00	20.00	7.40	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
Buttercup Wdlds	PA0091316A	0.0400	0.0400	0.0400	0.000	20.00	7.10

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	0.10	0.00	0.70

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
20C	34990	Trib 34990 to Ltl Connoquenes'ng Cr	**0.000**	994.73	2.83	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	0.076	0.00	0.00	0.000	0.000	0.0	0.00	0.00	20.00	7.40	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	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

WQM 7.0 Hydrodynamic Outputs

SWP Basin	Stream Code	Stream Name
20C	34990	Trib 34990 to Ltl Connoquenes'ng Cr

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												
1.030	0.06	0.00	0.06	.037	0.02093	.351	4.17	11.9	0.07	0.325	20.00	7.36
0.670	0.09	0.00	0.09	.0989	0.01399	.387	5.73	14.79	0.09	0.471	20.00	7.26
Q1-10 Flow												
1.030	0.04	0.00	0.04	.037	0.02093	NA	NA	NA	0.06	0.375	20.00	7.35
0.670	0.06	0.00	0.06	.0989	0.01399	NA	NA	NA	0.08	0.525	20.00	7.24
Q30-10 Flow												
1.030	0.08	0.00	0.08	.037	0.02093	NA	NA	NA	0.08	0.290	20.00	7.37
0.670	0.13	0.00	0.13	.0989	0.01399	NA	NA	NA	0.10	0.431	20.00	7.28

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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	95.00%	Use Balanced Technology	☑
D.O. Goal	5		

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WQM 7.0 Wasteload Allocations

SWP Basin	Stream Code	Stream Name
20C	34990	Trib 34990 to Ltl Connoquenes'ng Cr

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
1.030	Brandy One	11.43	23.63	11.43	21.37	2	10
0.670	Buttercup Wdlds	13.37	26.28	13.11	23.77	2	10

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
1.030	Brandy One	1.55	4.86	1.55	3.92	2	19
0.670	Buttercup Wdlds	1.64	4.84	1.64	3.9	2	19

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)		
1.03	Brandy One	25	25	3.92	3.92	4	4	0	0
0.67	Buttercup Wdlds	25	25	3.9	3.9	4	4	0	0

WQM 7.0 Effluent Limits

SWP Basin	Stream Code	Stream Name
20C	34990	Trib 34990 to Ltl Connoquenes'ng Cr

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)
1.030	Brandy One	PA00238686	0.024	CBOD5	25		
				NH3-N	3.92	7.84	
				Dissolved Oxygen			4

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)
0.670	Buttercup Wdlds	PA0091316A	0.040	CBOD5	25		
				NH3-N	3.9	7.8	
				Dissolved Oxygen			4

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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	XXX	XXX	XXX	XXX	XXX	Continuous	Metered
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	4.0 Daily 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	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	Report Annual Avg	XXX	XXX	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	8-Hr Composite
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	7.5	XXX	15	2/month	8-Hr Composite
Ammonia May 1 - Oct 31	XXX	XXX	XXX	2.5	XXX	5	2/month	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	2.0	XXX	4	2/month	8-Hr Composite

Compliance Sampling Location: Outfall 001 after disinfection