

Application Type Renewal
Facility Type Non-Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0041564
APS ID 1038496
Authorization ID 1354153

Applicant and Facility Information

Applicant Name	<u>Jones Estates PA LLC</u>	Facility Name	<u>Pine Valley Estates</u>
Applicant Address	<u>2310 S Miami Boulevard Suite 238</u> <u>Durham, NC 27703-5798</u>	Facility Address	<u>High Acres Road</u> <u>Harmony, PA 16037</u>
Applicant Contact	<u>Tracey Repa, Asset Support Analyst</u>	Operator Contact	<u>John Foris-Integrated Environmental Services</u>
Applicant Phone	<u>(414) 788-2786</u>	Operator Phone	<u>412-415-9145</u>
Applicant E Mail	<u>trepa@rentstackhouse.com</u>	Operator E Mail	<u>jmforis@gmail.com</u>
Client ID	<u>354413</u>	Site ID	<u>262125</u>
Municipality	<u>Lancaster Township</u>	County	<u>Butler</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Connection Status	<u>No Limitations</u>
SIC Code	<u>6515</u>	SIC Code	<u>4952</u>
SIC Description	<u>Fin, Ins & Real Est-Mob Home Site Operators</u>	SIC Description	<u>Trans. & Utilities - Sewerage Systems</u>
Date Application Received	<u>April 23, 2021</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>July 26, 2021</u>	If No, Reason	<u></u>
Purpose of Application	<u>NPDES permit renewal</u>		

Summary of Review

One open Safe Drinking Water NOV for other significant violations. *There are 9 open violations in WMS under the NWRO SDW Program as of 10/10/2023. The applicant will be notified of the open violations in the Draft Permit Cover Letter and given an opportunity to address the violations prior to issuance of the final permit.*

Facility Director: Jason Freed, E Mail Address: jason@rentstackhouse.com, Telephone: 915-225-9614,

E Coli annual monitoring proposed. Removal of the discharge chlorine demand from the chlorine evaluation *and adjusting the chlorine demand of the stream* has significantly reduced the TRC limitations. With de-chlorination present the self-monitoring reports show continuing compliance.

1.211-dry tons sludge removed prior to renewal submission.

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*

Approve	Deny	Signatures	Date
X		<i>William H. Mentzer</i> William H. Mentzer, P.E. Environmental Engineering Specialist	October 2, 2023
X		Chad W. Yurisc Chad W. Yurisc, P.E. Environmental Engineer Manager	10/10/2023

Summary of Review

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.

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.02</u>
Latitude DP	<u>40° 49' 5.00"</u>	Longitude DP	<u>80° 8' 57.50"</u>
Latitude NHD	<u>40° 49' 6.30"</u>	Longitude NHD	<u>80° 9' 3.11"</u>
Quad Name	<u>Zelienople</u>	Quad Code	<u>1204</u>

Wastewater Description: Treated domestic sewage

Receiving Waters	<u>Unnamed Tributary of Doe Run</u>	Stream Code	<u>34902</u>
NHD Com ID	<u>126223489</u>	RMI	<u>0.54</u>
Drainage Area	<u>0.12</u>	Yield (cfs/mi ²)	<u>0.05</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.005</u>	Q ₇₋₁₀ Basis	<u>Buffalo Creek nr Freeport</u>
Elevation (ft)	<u>1038</u>	Slope (ft/ft)	<u>0.03</u>
Watershed No.	<u>20-C</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u>statewide</u>	Existing Use Qualifier	<u>none</u>
Exceptions to Use	<u>none</u>	Exceptions to Criteria	<u>none</u>

Comments DP is the discharge and effluent monitoring point. NHD is the stream confluence

Assessment Status Not Assessed

Cause(s) of Impairment _____

Source(s) of Impairment _____

TMDL Status _____ Name _____

Background/Ambient Data		Data Source	
pH (SU)	<u>7.0</u>		<u>1/25/93 stream sample</u>
Temperature (°C)	<u>25</u>		<u>Default</u>
Hardness (mg/L)			
Other: NH ₃ -N	<u>0.16</u>		<u>1/25/93 stream sample</u>

Nearest Downstream Public Water Supply Intake	<u>PA American</u>		
PWS Waters	<u>Connoquenessing Creek</u>	Flow at Intake (cfs)	<u>NA</u>
PWS RMI	<u>0.1</u>	Distance from Outfall (mi)	<u>19.19</u>

Changes Since Last Permit Issuance

Former Nearest Downstream Public Water Supply	<u>Beaver Falls Municipal Authority @ Eastvale</u>		
PWS Waters	<u>Beaver River</u>	Flow at Intake (cfs)	<u>NA</u>
PWS RMI	<u>3.8</u>	Distance from Outfall (mi)	<u>10</u>

Hereford Manor Lake is reported as out-of-use and drained. The owner, Penna Fish and Boat Commission, has not decided on abandonment or rehabilitation.

Other Comments: none

Treatment Facility Summary				
Treatment Facility Name: Pine Valley Estates				
WQM Permit No.		Issuance Date		
1073408 T-3		8/18/1997		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary With Phosphorus Reduction	Activated Sludge	Hypochlorite	0.02
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.02	52.6	Not Overloaded	Holding	Other WWTP

Changes Since Last Permit Issuance: none

Other Comments: Treatment is comminution, 20,000-gallon aeration tank, clarification, twin intermittent 30X30-foot sand filter, chlorination with a 1,309-gallon contact tank, de-chlorination and 6,000-gallon aerated sludge holding tank.

Used Chemicals

Soda ash for pH and alkalinity control
Ferric Chloride for phosphorus control

Compliance History

DMR Data for Outfall 001 (from August 1, 2022 to July 31, 2023)

Parameter	JUL-23	JUN-23	MAY-23	APR-23	MAR-23	FEB-23	JAN-23	DEC-22	NOV-22	OCT-22	SEP-22	AUG-22
Flow (MGD) Average Monthly	0.0053	0.011	0.01125	0.009	0.0095	0.011	0.01125	0.01125	0.0105	0.0105	0.0105	0.0063
Flow (MGD) Daily Maximum	0.0077	0.013	0.0125	0.0095	0.0107	0.013	0.0125	0.0125	0.012	0.012	0.012	0.0077
pH (S.U.) Instantaneous Minimum	7.09	7.32	7.36	7.09	7.31	7.32	7.36	7.09	6.97	7.31	7.26	6.99
pH (S.U.) Instantaneous Maximum	7.75	7.46	7.62	7.56	7.47	7.46	7.62	7.47	7.45	7.86	7.83	7.47
DO (mg/L) Instantaneous Minimum	6.04	5.91	6.14	5.95	5.79	5.91	6.04	6.26	6.31	6.56	6.11	6.31
TRC (mg/L) Average Monthly	0.03	0.0075	0.03	0.015	0.03	0.015	0.03	0.021	0.005	0.008	0.005	0.018
TRC (mg/L) Instantaneous Maximum	0.04	0.01	0.04	0.02	0.04	0.02	0.04	0.024	0.01	0.01	0.01	0.027
CBOD5 (mg/L) Average Monthly	2.1	3.5	2.0	7.325	2.0	2.0	5.8	3.1	4.4	2.6	3.55	9.7
TSS (mg/L) Average Monthly	5.0	5.0	7.0	8.5	5.0	5.0	5.0	5.0	5.0	5.0	6.5	< 5.0
Fecal Coliform (No./100 ml) Geometric Mean	13.15	3.16	1.41	1.0	1.0	1.0	1.0	1.0	1.0	1	< 1	< 1
Fecal Coliform (No./100 ml) Instantaneous Maximum	173	5	2	1.0	1.0	1.0	1.0	1.0	1.0	1	< 1	< 1
Total Nitrogen (mg/L) Average Monthly	6.10	5.5	13.4	1.05	18.38	13.4	3.10	8.4	16.5	15.27	2.5	29.31
Ammonia (mg/L) Average Monthly	0.35	5.5	0.25	0.4	0.3	0.7	1.4	0.3	0.1	0.2	0.4	0.45
Total Phosphorus (mg/L) Average Monthly	0.40	0.745	0.2	0.2	0.8	0.3	0.39	0.1	0.4	0.1	< 0.03	4.5

Compliance History

Effluent Violations for Outfall 001, from: September 1, 2022 To: July 31, 2023

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
Ammonia	06/30/23	Avg Mo	5.5	mg/L	1.5	mg/L

Summary of Inspections: NA

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>.02</u>
Latitude <u>40° 49' 5.00"</u>	Longitude <u>-80° 8' 57.50"</u>
Wastewater Description: <u>Sewage Effluent</u>	

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)
DO	4	Daily minimum		BPJ
E Coli	Report			BPJ
Phosphorus	Report			BPJ
Nitrogen	Report			BPJ

Comments: E Coli monitoring proposed.

Water Quality-Based Limitations

A Sewerage Program “Reasonable Potential Analysis” determined the following parameters were candidates for limitations: Flow, CBOD₅, ammonia, chlorine, and dissolved oxygen.

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

Parameter		Limit (mg/l)			SBC	Model		
Parameter	Period	Minimum	Average	Maximum		Minimum	Average	Maximum
CBOD ₅			25.0	50.0			25.0	50.0
Ammonia	Summer		1.5	3.0			1.48	2.96
	Winter		4.5	9.0				
DO		5.0				5.0		
TRC			0.04	0.12			0.037	0.121

Comments:

CBOD₅, Ammonia and DO requirements through WQM7.7, TRC requirements through the statewide TRC spreadsheet.

The regional TRC spreadsheet was run in 2003 with a 0.4-mg/L stream chlorine demand and a 0.3-mg/L discharge chlorine demand.

Limit verification was with the statewide chlorine spreadsheet without a discharge chlorine demand. Without the discharge chlorine demand factor *and a lower stream chlorine demand*, the chlorine limit drops to 0.04-mg/L. The current 12-month self-monitoring report summary shows compliance with the revised chlorine requirements.

Best Professional Judgment (BPJ) Limitations

Comments:

A total phosphorus limit of 2 mg/l as an average monthly is being retained (originated from TSI survey on Hereford Manor Lake and also as a tributary to the Connoquenessing Creek).

Total nitrogen monitoring is being continued in accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Sewage Permits."

The downstream reservoir is Hereford Manor Lake owned and operated by the Pa Fish & Boat Commission. It is currently drained. The lake future is unknown.

Anti-Backsliding

Not applicable

WQM 7.0 Effluent Limits

<u>SWP Basin</u>		<u>Stream Code</u>		<u>Stream Name</u>			
20C		34902		Trib 34902 to Doe 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)
0.540	Pine Valley	PA0041564	0.020	CBOD5	25		
				NH3-N	1.48	2.96	
				Dissolved Oxygen			5

WQM 7.0 D.O.Simulation

<u>SWP Basin</u>	<u>Stream Code</u>	<u>Stream Name</u>		
20C	34902	Trib 34902 to Doe Run		
<u>RMI</u>	<u>Total Discharge Flow (mgd)</u>	<u>Analysis Temperature (°C)</u>	<u>Analysis pH</u>	
0.540	0.020	25.000	7.305	
<u>Reach Width (ft)</u>	<u>Reach Depth (ft)</u>	<u>Reach WDRatio</u>	<u>Reach Velocity (fps)</u>	
1.834	0.320	5.724	0.063	
<u>Reach CBOD5 (mg/L)</u>	<u>Reach Kc (1/days)</u>	<u>Reach NH3-N (mg/L)</u>	<u>Reach Kn (1/days)</u>	
21.26	1.461	1.25	1.029	
<u>Reach DO (mg/L)</u>	<u>Reach Kr (1/days)</u>	<u>Kr Equation</u>	<u>Reach DO Goal (mg/L)</u>	
5.413	31.416	Owens	5	
<u>Reach Travel Time (days)</u>	Subreach Results			
0.525	<u>TravTime (days)</u>	<u>CBOD5 (mg/L)</u>	<u>NH3-N (mg/L)</u>	<u>D.O. (mg/L)</u>
	0.053	19.31	1.19	6.24
	0.105	17.53	1.12	6.54
	0.158	15.92	1.07	6.72
	0.210	14.45	1.01	6.87
	0.263	13.12	0.96	7.00
	0.315	11.91	0.91	7.12
	0.368	10.82	0.86	7.12
	0.420	9.82	0.81	7.12
	0.473	8.92	0.77	7.12
	0.525	8.10	0.73	7.12

WQM 7.0 Wasteload Allocations

SWP Basin **Stream Code** **Stream Name**
20C 34902 Trib 34902 to Doe 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
0.540	Pine Valley	7.71	8.66	7.71	8.66	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
0.540	Pine Valley	1.19	1.48	1.19	1.48	0	0

Dissolved Oxygen Allocations

RMI	Discharge Name	<u>CBOD5</u>		<u>NH3-N</u>		<u>Dissolved Oxygen</u>		Critical Reach	Percent Reduction
		Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)		
0.54	Pine Valley	25	25	1.48	1.48	5	5	0	0

WQM 7.0 Modeling Specifications

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	<input checked="" type="checkbox"/>
WLA Method	EMPR	Use Inputted W/D Ratio	<input type="checkbox"/>
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	<input type="checkbox"/>
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	<input checked="" type="checkbox"/>
D.O. Saturation	85.00%	Use Balanced Technology	<input checked="" type="checkbox"/>
D.O. Goal	5		

WQM 7.0 Hydrodynamic Outputs

<u>SWP Basin</u>		<u>Stream Code</u>				<u>Stream Name</u>						
20C		34902				Trib 34902 to Doe 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												
0.540	0.01	0.00	0.01	.0309	0.04059	.32	1.83	5.72	0.06	0.525	25.00	7.30
Q1-10 Flow												
0.540	0.00	0.00	0.00	.0309	0.04059	NA	NA	NA	0.06	0.543	25.00	7.33
Q30-10 Flow												
0.540	0.01	0.00	0.01	.0309	0.04059	NA	NA	NA	0.06	0.509	25.00	7.28

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	34902	Trib 34902 to Doe Run	0.000	922.28	3.10	0.00000	0.00	<input checked="" type="checkbox"/>

Stream Data

Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tributary Temp	Tributary pH	Stream Temp	Stream pH
	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)	
Q7-10	0.050	0.00	0.00	0.000	0.000	0.0	0.00	0.00	25.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

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

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	34902	Trib 34902 to Doe Run	0.540	1038.00	0.12	0.00000	0.00	<input checked="" type="checkbox"/>

Stream Data

Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tributary Temp	Tributary pH	Stream Temp	Stream pH
	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)	
Q7-10	0.050	0.00	0.00	0.000	0.000	0.0	0.00	0.00	25.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
Pine Valley	PA0041564	0.0200	0.0200	0.0200	0.000	25.00	7.40

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	7.54	0.00	0.00
NH3-N	25.00	0.10	0.00	0.70

Copy of TRC_CALC.xls

TRC EVALUATION				
Input appropriate values in A3:A9 and D3:D9				
0.006	= Q stream (cfs)		0.5	= CV Daily
0.02	= 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
TRC	1.3.2.iii	WLA_afc = 0.081		1.3.2.iii
PENTOXSD TRG	5.1a	LTAMULT_afc = 0.373		5.1c
PENTOXSD TRG	5.1b	LTA_afc = 0.030		5.1d
		WLA_cfc = 0.071		
		LTAMULT_cfc = 0.581		
		LTA_cfc = 0.041		
Source	Effluent Limit Calculations			
PENTOXSD TRG	5.1f	AML_MULT = 1.231		
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.037		AFC
		INST MAX LIMIT (mg/l) = 0.121		
WLA_afc	$(.019/e^{-k \cdot AFC_tc}) + [(AFC_Yc \cdot Qs \cdot .019 / Qd \cdot e^{-k \cdot AFC_tc}) \dots + Xd + (AFC_Yc \cdot Qs \cdot Xs / Qd)] \cdot (1 - FOS / 100)$			
LTAMULT_afc	$EXP((0.5 \cdot LN(cvh^2 + 1)) - 2.326 \cdot LN(cvh^2 + 1)^{0.5})$			
LTA_afc	wla_afc * LTAMULT_afc			
WLA_cfc	$(.011/e^{-k \cdot CFC_tc}) + [(CFC_Yc \cdot Qs \cdot .011 / Qd \cdot e^{-k \cdot CFC_tc}) \dots + Xd + (CFC_Yc \cdot Qs \cdot Xs / Qd)] \cdot (1 - FOS / 100)$			
LTAMULT_cfc	$EXP((0.5 \cdot LN(cvd^2 / no_samples + 1)) - 2.326 \cdot LN(cvd^2 / no_samples + 1)^{0.5})$			
LTA_cfc	wla_cfc * LTAMULT_cfc			
AML_MULT	$EXP(2.326 \cdot LN((cvd^2 / no_samples + 1)^{0.5}) - 0.5 \cdot LN(cvd^2 / no_samples + 1))$			
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)			

Proposed Effluent Limitations and Monitoring Requirements

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

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

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	2/week	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0 Daily Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.04	XXX	0.12	1/day	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50.0	2/month	8-Hr Composite
TSS	XXX	XXX	XXX	30.0	XXX	60.0	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
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	2/month	8-Hr Composite
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	4.5	XXX	9.0	2/month	8-Hr Composite
Ammonia 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

Compliance Sampling Location: Outfall001 after disinfection