

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

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0238619  
APS ID 1045113  
Authorization ID 1364658

**Applicant and Facility Information**

Applicant Name	<u>Chestnut Grove Master Owners Assoc</u>	Facility Name	<u>Chestnut Grove Homeowners Association</u>
Applicant Address	<u>100 Ridgemont Drive</u> <u>Butler, PA 16001-8386</u>	Facility Address	<u>US Rte 422</u> <u>Butler, PA 16001</u>
Applicant Contact	<u>Kelly Ligon, Community Manager</u>	Facility Contact	<u>Timothy Bunta, Bunta Plant Management</u>
Applicant Phone	<u>(724) 256-9776</u>	Facility Phone	
Applicant E Mail	<u>Kelly@rjcmgt.com</u>	Facility E Mail	<u>Tim534@gmail.com</u>
Client ID	<u>246110</u>	Site ID	<u>546982</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Connection Status	<u>No Limitations</u>
Municipality	<u>Franklin Township</u>	County	<u>Butler</u>
Date Application Received	<u>March 4, 2021</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>August 8, 2021</u>	If No, Reason	
Purpose of Application	<u>NPDES discharge permit renewal.</u>		

**Summary of Review**

No current open violations *in WMS as of 5/17/2023 CWY*. The facility does have occasional effluent phosphorus violations that are typical of manually operated small treatment facilities. Daily pH, DO and TRC with annual nitrogen and E.coli monitoring is proposed.

Sludge use and disposal description and location(s): 0.542-dry tons removed by K&M Septic Tank Cleaning

The receiving waters are attaining uses and are not part of the downstream Little Connoquenessing Creek Watershed TMDL dated 8 January 2009 for acid mine drainage.

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		<i>William H. Mentzer</i> William H. Mentzer, P.E. Environmental Engineering Specialist	May 9, 2023
X		Chad W. Yurisc Chad W. Yurisc, P.E. Environmental Engineer Manager	5/17/2023



Treatment Facility Summary				
<b>Treatment Facility Name:</b> Chestnut Grove Homeowners Association				
<b>WQM Permit No.</b>		<b>Issuance Date</b>		
1002406 T-1		June 23, 2006		
1002406		June 10, 2002		
<b>Waste Type</b>	<b>Degree of Treatment</b>	<b>Process Type</b>	<b>Disinfection</b>	<b>Avg Annual Flow (MGD)</b>
Sewage	Secondary With Ammonia And Phosphorus	Extended Aeration	Chlorine With Dechlorination	0.08
<b>Hydraulic Capacity (MGD)</b>	<b>Organic Capacity (lbs/day)</b>	<b>Load Status</b>	<b>Biosolids Treatment</b>	<b>Biosolids Use/Disposal</b>
0.08	136	Not Overloaded	Aerobic Digestion	Landfill

Changes Since Last Permit Issuance: none

Other Comments:

T-1 Permit:

screening, comminutor, (2) extended aeration tanks, (2) settling tanks, flocculation tank, chemical treatment, (2) settling tanks (for phosphorus removal), chlorination contact tank, and (2) aerobic digestion tanks. No annual average flow is listed. Design hydraulic capacity is 0.08-MGD and the design organic load is 136-PPD. Permit issued with Sewerage conditions 1, 4, 6, 7, 8, 9, 12, 15, 16, 20, 21, 23, and 24 dated 6/2004.

Treatment:

comminution with bypass screen, activated sludge using extended aeration with clarification, chemical treatment with flocculation and settling, chlorination, post aeration, and aerobic sludge digestion (holding).

De-chlorination is reported and erosion de-chlorination is listed in the WQM permit review.

The files report a Planning reviewed 0.12-MGD ultimate flow for this facility which is greater than permitted 0.08-MGD design flow. Permitting reviews has been limited to the 0.08-MGD WQM application design flow.

	Month	Year	Flow MGD	Mass PPD	Min mg/L	Mean mg/L	Max mg/L	#	Min mg/L	Mean mg/L	Max mg/L	#
Hydraulic design capacity			0.0800									
Organic design capacity				136								
Annual average		2018	0.0061									
		2019	0.0049									
		2020	0.0051									
Highest Monthly Average	March	2020	0.0070									
pH					6.89	6.89	2	6.36		8.29	6/week	
TRC								0.01	0.04	0.33	3/week	
BOD5						173	1	< 2.0	4.63	18.9	2/month	
TSS						64	1	2.5	10.9	44.0	2.month	
N						133.21	1	0.599	7,064	31.1	2/month	
P						8.05	1	0.25	1,42	4,28	2/month	
Amm						81.46	1	0.24	4.13	20.06	2/month	
TDS						556	1					
F Coliform						>24196	1	< 1	1.11	6.3	2/month	
TKN						32.9	1					
NO2NO3						0.3778	1					

Chemicals

Ammonium sulfate for phosphorus control

Sodium bisulfate for dechlorination

Sodium hypochlorite 12% for disinfection

The receiving waters support aquatic downstream to Little Connoquenessing Creek RMI 7.92 and confluence with tributary 34978. The stream is impaired below this point by acid mine drainage and metals to RMI 6.181431 and confluence with un-named tributary 34974 where the stream again supports aquatic life. At RMI 3.37 and confluence with Yellow Creek the stream is again mine drainage impaired. This impairment continues past the Harmony water intake to Connoquenessing Creek where an agricultural impairment exists.

This TMDL is to abate acid mine drainage in Little Yellow Creek, Yellow Creek and Little Connoquenessing Creek and includes aluminum, iron, manganese, and acidity (pH substitute). Mulligan Run is excluded from any TMDL requirements in the report and WMS.

Compliance History

DMR Data for Outfall 001 (from April 1, 2022 to March 31, 2023)

Parameter	MAR-23	FEB-23	JAN-23	DEC-22	NOV-22	OCT-22	SEP-22	AUG-22	JUL-22	JUN-22	MAY-22	APR-22
Flow (MGD) Average Monthly	0.0059	0.0053	0.0076	0.11	0.0047	0.0064	0.0072	0.007	0.0074	0.0066	0.0073	0.00587
pH (S.U.) Minimum	7.03	7.18	7.18	7.00	7.20	6.79	7.22	6.89	7.29	6.77	7.31	7.56
pH (S.U.) Maximum	7.77	8.01	7.98	8.22	7.41	7.72	7.34	7.62	7.48	7.74	7.83	7.81
DO (mg/L) Minimum	7.70	9.53	8.02	7.34	8.00	7.24	7.42	6.01	7.59	6.81	6.41	7.77
TRC (mg/L) Average Monthly	0.04	0.08	0.04	0.01	0.02	0.01	0.01	0.01	0.05	0.01	0.02	0.08
TRC (mg/L) Instantaneous Maximum	0.07	0.16	0.10	0.03	0.04	0.04	0.02	0.03	0.21	0.06	0.04	0.15
CBOD5 (mg/L) Average Monthly	< 3.0	3	< 3	2.09	3.88	3.69	< 3.5	3.5	< 4.00	3.52	< 2.0	5.11
TSS (mg/L) Average Monthly	17.0	12.5	18.5	11.25	22.5	23.45	11.25	7.75	7.0	9.5	6.75	3.75
FColiform (#/100 ml) Geometric Mean	< 1	1	< 1	< 1.0000	< 1.0	1	< 1	< 1.0	< 1.0	< 1.0	< 1.00	< 1.0
F Coliform (#/100 ml) Instant Maximum	< 1	1	< 1	< 1.0000	< 1.0	1	< 1	< 1.0	< 1.0	< 1.0	< 1.00	< 1.0
Total Nitrogen (mg/L) Average Monthly	4.4966	4.99	4.1298	2.25	2.89	1.77	3.10	4.45	1.459	3.764	2.58	2.62
Ammonia (mg/L) Average Monthly	0.4	0.4	0.3	< 0.1000	0.48	0.11	0.677	0.83	0.451	1.64	1.46	1.17
Total Phosphorus (mg/L) Aver Monthly	<b>3.0</b>	1.5	1.1	1.416	<b>4.26</b>	1.85	1.47	<b>2.64</b>	1.12	0.877	0.110	1.171

**Compliance History**

**Effluent Violations for Outfall 001, from: May 1, 2022 To: March 31, 2023**

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
Total Phosphorus	11/30/22	Avg Mo	4.26	mg/L	2.0	mg/L
Total Phosphorus	03/31/23	Avg Mo	3.0	mg/L	2.0	mg/L
Total Phosphorus	08/31/22	Avg Mo	2.64	mg/L	2.0	mg/L

Other Comments: The phosphorus values are typical of small manually operated phosphorus treatment systems.

**Development of Effluent Limitations**

Outfall No. 001 Design Flow (MGD) .08  
 Latitude 40° 53' 38.00" Longitude -79° 59' 58.00"  
 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 <sub>5</sub>	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		BJ
E Coli	report	IMAX		BPJ

**Water Quality-Based Limitations**

A Sewage Program “Reasonable Potential Analysis” determined the following parameters were candidates for limitations:

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

Parameter		Limit (mg/l)			SBC	Model			Comments
Name	Period	Min	Ave	Max		Min	Ave	Max	
Bod5			25.0	50.0			25.0	50.0	
Ammonia	summer		2.5	5.0			2.84	5.68	Rounded down
	winter		7.5	15.0					
DO		5.0				5.0			
Phosphorus			2.0	4.0			2.0		Implementation plan
TRC			0.11	0.35			0.131	0.430	Rounded down

Comments: DoI USGS Stream stats changed the drainage area.

**Best Professional Judgment (BPJ) Limitations**

Comments: DO only

**Anti-Backsliding**

Not needed for TRC

**WQM 7.0 Wasteload Allocations**

**SWP Basin**      **Stream Code**                      **Stream Name**  
 20C                      34993                                      MULLIGAN 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
2.100	Chestnut Grove	7.49	12.22	7.49	12.22	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
2.100	Chestnut Grove	1.26	2.84	1.26	2.84	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)		
2.10	Chestnut Grove	25	25	2.84	2.84	5	5	0	0



**WQM 7.0 D.O.Simulation**

<u>SWP Basin</u>	<u>Stream Code</u>	<u>Stream Name</u>		
20C	34993	MULLIGAN RUN		
<u>RMI</u>	<u>Total Discharge Flow (mgd)</u>	<u>Analysis Temperature (°C)</u>		<u>Analysis pH</u>
2.100	0.080	22.499		7.464
<u>Reach Width (ft)</u>	<u>Reach Depth (ft)</u>	<u>Reach WDRatio</u>		<u>Reach Velocity (fps)</u>
7.460	0.404	18.471		0.082
<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>
13.50	1.090	1.47		0.848
<u>Reach DO (mg/L)</u>	<u>Reach Kr (1/days)</u>	<u>Kr Equation</u>		<u>Reach DO Goal (mg/L)</u>
6.622	23.095	Owens		5
<u>Reach Travel Time (days)</u>	<b>Subreach Results</b>			
1.562	<u>TravTime (days)</u>	<u>CBOD5 (mg/L)</u>	<u>NH3-N (mg/L)</u>	<u>D.O. (mg/L)</u>
	0.156	11.15	1.29	7.57
	0.312	9.21	1.13	7.78
	0.468	7.61	0.99	7.94
	0.625	6.29	0.86	8.07
	0.781	5.20	0.76	8.18
	0.937	4.29	0.66	8.24
	1.093	3.55	0.58	8.24
	1.249	2.93	0.51	8.24
	1.405	2.42	0.45	8.24
	1.562	2.00	0.39	8.24

### 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	95.00%	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		34993				MULLIGAN 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
<b>Q7-10 Flow</b>												
2.100	0.12	0.00	0.12	.1238	0.00931	.404	7.46	18.47	0.08	1.562	22.50	7.46
<b>Q1-10 Flow</b>												
2.100	0.08	0.00	0.08	.1238	0.00931	NA	NA	NA	0.07	1.745	23.05	7.47
<b>Q30-10 Flow</b>												
2.100	0.17	0.00	0.17	.1238	0.00931	NA	NA	NA	0.09	1.423	22.12	7.46

**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	34993	MULLIGAN RUN	2.100	1105.00	2.58	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	0.048	0.00	0.00	0.000	0.000	0.0	0.00	0.00	20.00	7.43	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
Chestnut Grove	PA0238619	0.0800	0.0800	0.0800	0.000	25.00	7.50

**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	5.00	8.24	0.00	0.00
NH3-N	25.00	0.10	0.00	0.70

**WQM 7.0 Effluent Limits**

<u>SWP Basin</u>		<u>Stream Code</u>		<u>Stream Name</u>			
20C		34993		MULLIGAN 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)
2.100	Chestnut Grove	PA0238619	0.080	CBOD5	25		
				NH3-N	2.84	5.68	
				Dissolved Oxygen			5

**WQM 7.0 Effluent Limits**

<u>SWP Basin</u>		<u>Stream Code</u>		<u>Stream Name</u>			
20C		34993		MULLIGAN 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)
2.100	Chestnut Grove	PA0238619	0.080	CBOD5	25		
				NH3-N	2.84	5.68	
				Dissolved Oxygen			5

1A	B	C	D	E	F	G	H	I	J	K	L	M
	Discharger		Chestnut Grove							Wednesday, May 10, 2023		
	Site		Chestnut Grove STP				Revised			Wednesday, May 10, 2023		
	Municipality		Franklin Township									
	County		Butler									
	NPDES Permit		PA0238619									
	0.5											
2	<b>TRC EVALUATION</b>											
3	Input appropriate values in B4:B8 and E4:E7											
4	0.123	= Q stream (cfs)						0.5	= CV Daily			
5	0.0800	= Q discharge (MGD)						0.5	= CV Hourly			
6	30	= no. samples						1	= AFC_Partial Mix Factor			
7	0.25	= 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 = 0.287				1.3.2.iii	WLA_cfc = 0.271				
12	PENTOXSD TRG	5.1a	LTAMULT_afc = 0.373				5.1c	LTAMULT_cfc = 0.581				
13	PENTOXSD TRG	5.1b	LTA_afc = 0.107				5.1d	LTA_cfc = 0.157				
14												
15	Source	Effluent Limit Calculations										
16	PENTOXSD TRG	5.1f	AML_MULT = 1.231									
17	PENTOXSD TRG	5.1g	J LIMIT (mg/l) = 0.131				AFC					
18			K LIMIT (mg/l) = 0.430									
	WLA_afc	$(0.19/e^{-(k \cdot AFC\_tc)}) + [(AFC\_Yc \cdot Qs \cdot 0.19 / Qd) e^{-(k \cdot AFC\_tc)}] \dots$										
	LTAMULT_afc	$\dots + Xd + (AFC\_Yc \cdot Qs \cdot Xs / Qd) \cdot (1 - FOS / 100)$										
	LTA_afc	$EXP((0.5 \cdot LN((cvr^{no\_samples+1}) - 2.326 \cdot LN((cvr^{no\_samples+1})^{0.5})))$										
	WLA_cfc	$(0.11/e^{-(k \cdot CFC\_tc)}) + [(CFC\_Yc \cdot Qs \cdot 0.11 / Qd) e^{-(k \cdot CFC\_tc)}] \dots$										
	LTAMULT_cfc	$\dots + Xd + (CFC\_Yc \cdot Qs \cdot Xs / Qd) \cdot (1 - FOS / 100)$										
	LTA_cfc	$EXP((0.5 \cdot LN((cvd^{2/no\_samples+1}) - 2.326 \cdot LN((cvd^{2/no\_samples+1})^{0.5})))$										
	AML_MULT	$EXP(2.326 \cdot LN((cvd^{2/no\_samples+1})^{0.5} - 0.5 \cdot LN((cvd^{2/no\_samples+1})^{0.5})))$										
	AVG MON LIMIT	$MIN(BAT\_BPJ, MIN(LTA\_afc, LTA\_cfc)) \cdot AML\_MULT$										
	INST MAX LIMIT	$1.5 \cdot ((av\_mon\_limit \cdot AML\_MULT) / LTA\_cfc)$										
	$(0.011 / EXP(-k \cdot CFC\_tc / 1440)) + ((CFC\_Yc \cdot Qs \cdot 0.011) / (1.547 \cdot Qd)) \dots$											
	$\dots \cdot EXP(-k \cdot CFC\_tc / 1440)) + Xd + (CFC\_Yc \cdot Qs \cdot Xs / 1.547 \cdot Qd) \cdot (1 - FOS / 100)$											
	Stream	Chlorine Required	=	perennial	Chlorine Demand	+	Chlorine Residual					
	Stream	Reach/Node	1	1								
	Stream	Flow	Conditions	Perennial								
	Stream	Code		34993								
	Stream	Function		OUTFALL								
	Samples			30								
	reach	outfall	RMI	2.10								
	reach	Reach End	RMI	0								
	reach		feet	11088								
	drainage		sq miles	2.58								
	TRC	limitation	average	mg/L	0.011							
			maximum	mg/L	0.036							
	elevation	modelled	feet	1105								
	elevation	modelled	feet	1071.30								
	slope	modelled	foot/foot	0.003								
	low flow		cfs/sq mi	0.048								
	discharge		mgd	0.0800								
	Runoff	Period	hours	24.000								
	stream	flow		cfs	0.12316							
	stream	flow		MGD	0.079602							
	stream	flow	total	MGD	0.159602							
	stream	chlorine	demand	mg/L	0.3							
	discharge	discharge	demand	mg/L								
	stream	Total Stream/Waste	ratio		2.0							
	BAT	TRC	mean	BAT	0.5							
	BAT	TRC	maximum	BAT	1.6							
	B	C	D	E	F	G	H	I	J	K	L	M

**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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	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/dy	Grab
TRC	XXX	XXX	XXX	0.11	XXX	0.35	1/day	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50	2/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60	2/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	XXX	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	2/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	Report Annl Avg	XXX	XXX	1/quarter	Grab
Total Nitrogen	XXX	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	7.5	XXX	15	2/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	2.5	XXX	5	2/month	Grab
Total Phosphorus	XXX	XXX	XXX	2.0	XXX	4	2/month	Grab

Compliance Sampling Location: Outfall 001 after disinfection