

Application Type Renewal
Facility Type Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0058041
APS ID 1096941
Authorization ID 1455066

Applicant and Facility Information

Applicant Name	<u>Aqua PA Wastewater Inc.</u>	Facility Name	<u>Possum Hollow STP</u>
Applicant Address	<u>762 W. Lancaster Ave.</u> <u>Bryn Mawr, PA 19101</u>	Facility Address	<u>Longview Road</u> <u>Sanatoga, PA 19464</u>
Applicant Contact	<u>Todd Duerr</u>	Facility Contact	<u>Kyle Roberts</u>
Applicant Phone	<u>(610) 525-1400</u>	Facility Phone	<u>610-520-6384</u>
Client ID	<u>62614</u>	Site ID	<u>556589</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Limerick Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Montgomery</u>
Date Application Received	<u>August 24, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u></u>	If No, Reason	<u></u>
Purpose of Application	<u>Renewal.</u>		

Summary of Review

The applicant has submitted a renewal application to discharge treated sewage to Schuylkill River through Outfall 001.

The facility, Possum Hollow STP, is serving Limerick Township (population: 20,280).

Based on the application: a pretreatment process consisting of a mechanical fine screen, aerated grit chamber, and grit classifier. The plant utilizes an AeroMod activated sludge biological treatment system that includes two-stage aeration, clarification, and aerobic sludge digestion. Inline ultraviolet disinfection and effluent metering.

DEP has conducted on 08/30/2023.

No violations were reported, however there were some notes regarding to red worms: In 2023 Mr. Shakespeare contacted DEP's inspector to state that the Possum Hollow STP was experiencing a proliferation of red sludge worms in their process water. The worms were passing through the UV disinfection units and thought to be the cause of elevated effluent Fecal results. The use of AQUABACxt larvicide was proposed and approved by DEP in January of 2024.

No changes in quality or quantity of the sewage discharge, therefore all effluent limits and monitoring requirements will be proposed as previously established except for E.coli quarterly monitoring that is required to collect statewide data. Proposed parameters listed on 15-16 pps. in this factsheet.

Sludge use and disposal description and location(s): Pottstown Wastewater Treatment Plant.

Act 14 Notification: Limerick Township Board of Supervisors and Montgomery County Planning Commission received on July 28, 2023.

Approve	Deny	Signatures	Date
X		<i>Begay Omuralieva</i> Begay Omuralieva / Environmental Engineering Specialist	May 9, 2024
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	05/09/2024

Summary of Review

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.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.7
Latitude	40° 12' 51"	Longitude	-75° 35' 14"
Quad Name	Phoenixville	Quad Code	1741
Wastewater Description: Sewage Effluent			
Receiving Waters	Schuylkill River	Stream Code	00833
NHD Com ID	25989532	RMI	47.55
Drainage Area	1,170 mi ²	Yield (cfs/mi ²)	0.262
Q ₇₋₁₀ Flow (cfs)	286.65	Q ₇₋₁₀ Basis	306.54 cfs (based on previous permit renewal)
Elevation (ft)	103.3	Slope (ft/ft)	
Watershed No.	3-D	Chapter 93 Class.	WWF, MF
Existing Use	WWF, MF	Existing Use Qualifier	N/A
Exceptions to Use	None	Exceptions to Criteria	N/A
Assessment Status	Attaining Use: Recreational. Not-attaining uses: Fish consumption, Aquatic Life		
Cause(s) of Impairment	PCB,		
Source(s) of Impairment	Urban runoff/Storm sewer, Municipal Point Source, Agricultural, Hydromodification		
TMDL Status	Final (4/7/2007)	Name	Schuylkill River PCB TMDL
Nearest Downstream Public Water Supply Intake	PA AMERICAN WATER CO - SHADY LANE WATER TREATMENT PLANT		
PWS Waters	Schuylkill River	Flow at Intake (cfs)	
PWS RMI	46.49	Distance from Outfall (mi)	1.06

Changes Since Last Permit Issuance:

Treatment Facility Summary				
Treatment Facility Name: Possum Hollow STP				
WQM Permit No.	Issuance Date			
4601408 T2	05/15/2019			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Activated Sludge	Ultraviolet	0.7
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.7	1600	Not Overloaded	Aerobic Digestion	Pottstown WWTP

Changes Since Last Permit Issuance: On September 24, 2018 Aqua PA has submitted a transfer application for the Possum Hollow STP permit from Limerick Township to Aqua Pennsylvania Wastewater, Inc

Compliance History

DMR Data for Outfall 001 (from March 1, 2023 to February 29, 2024)

Parameter	FEB-24	JAN-24	DEC-23	NOV-23	OCT-23	SEP-23	AUG-23	JUL-23	JUN-23	MAY-23	APR-23	MAR-23
Flow (MGD) Average Monthly	0.219	0.3	0.27	0.175	0.177	0.203	0.192	0.205	0.174	0.169	0.188	0.196
Flow (MGD) Daily Maximum	0.270	0.627	0.461	0.303	0.260	0.400	0.263	0.396	0.194	0.261	0.523	0.289
pH (S.U.) Instantaneous Minimum	6.8	6.7	6.4	7.1	6.9	6.7	6.7	6.2	6.4	6.4	6.8	6.8
pH (S.U.) Instantaneous Maximum	7.4	7.8	7.7	7.5	7.5	7.4	7.5	7.7	6.9	7.1	7.2	7.1
DO (mg/L) Instantaneous Minimum	8.3	8.3	8	6.3	6.4	6.0	6.2	5.9	6.0	6.9	7.4	8.3
CBOD5 (lbs/day) Average Monthly	12	18	18	11	6	7	9	10	14	6	5	6
CBOD5 (lbs/day) Raw Sewage Influent Average Monthly	231	313	272	275	227	121	266	211	302	329	195	217
CBOD5 (lbs/day) Weekly Average	15	32	28	13	8	7	19	17	16	8	6	9
CBOD5 (mg/L) Average Monthly	6.9	8	9	8.0	4	5	5	6	9	5.0	4.0	4.0
CBOD5 (mg/L) Raw Sewage Influent Average Monthly	126	126.9	114.7	190	160.4	92.6	146.4	132.3	214	262	152	147
CBOD5 (mg/L) Weekly Average	7.1	14	16	12	6	7	9	7.0	11	7.0	5.0	6.0
BOD5 (lbs/day) Raw Sewage Influent Average Monthly	338	446	382	312	265	140	246	354	411	482	240	372

NPDES Permit Fact Sheet
Possum Hollow Sewer System & STP

NPDES Permit No. PA0058041

BOD5 (mg/L) Raw Sewage Influent Average Monthly	184	186	147.4	212	187	108	145	227.4	298	396	190	247
TSS (lbs/day) Average Monthly	21	25	38	16	15	15	13	18	25	17	12	14
TSS (lbs/day) Raw Sewage Influent Average Monthly	115	295	399	201	219	133	502	516	282	329	228	206
TSS (lbs/day) Weekly Average	25	43	90	25	21	18	26	25	30	21	16	23
TSS (mg/L) Average Monthly	12	11	16	12	11	12	8	11	17	14	10.0	9.0
TSS (mg/L) Raw Sewage Influent Average Monthly	64	121	156	136	147	108	264	337	199	717	171	146
TSS (mg/L) Weekly Average	16	19	24	23	14	18	12	15	19	18	13.0	14.0
Total Dissolved Solids (mg/L) Average Quarterly			486			501.0			468.0			420.0
Fecal Coliform (No./100 ml) Geometric Mean	9	30	31	23	87	152	183	163	150	57	5	4
Fecal Coliform (No./100 ml) Instantaneous Maximum	25	248	102	64	120	517	866	921	285	73	12	24
UV Intensity (μw/cm²) Daily Minimum	218000	108000	1200	453000	337000	770000	132000	111000	438300	102000	185000	193
Ammonia (lbs/day) Average Monthly	7	12	4	< 4.0	< 1	< 1.0	5	7.0	1	0.9	1	0.7
Ammonia (mg/L) Average Monthly	3.9	5.1	1.4	< 2.5	< 0.6	< 0.8	3.0	4.4	1.0	0.7	1.1	< 0.5
Total Phosphorus (lbs/day) Average Monthly	8	7	9	8.0	8.0	8.0	9	10	11	10	8	8
Total Phosphorus (mg/L) Average Monthly	4.7	3.1	4.1	5.6	5.2	6	5.8	5.9	7.9	8.5	6.5	5.3

NPDES Permit Fact Sheet
Possum Hollow Sewer System & STP

NPDES Permit No. PA0058041

Total Phosphorus (mg/L) Instantaneous Maximum	5.3	4.8	4.4	7.8	6.0	7.4	7.2	6.5	10	11.0	7.8	6.3
Total Copper (mg/L) Average Quarterly			< 0.01			< 0.03			0.014			0.011
Total Zinc (mg/L) Average Quarterly			0.075			0.06			0.121			0.10
PCBs (Dry Weather) (pg/L) Daily Maximum			1940									
PCBs (Wet Weather) (pg/L) Daily Maximum			24600									

Compliance History

Development of Effluent Limitations

Outfall No. 001
Latitude 40° 12' 51.00"
Wastewater Description: Sewage Effluent from Possum Hollow STP
Design Flow (MGD) 0.7
Longitude -75° 35' 14.00"

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)

Comments: none

Water Quality-Based Limitations

Previously approved below effluent limits and monitoring requirements are carried over since no changes to the quality and quantity of the discharge:

Ammonia (NH₃-N), Carbonaceous Biochemical Oxygen Demand (CBOD₅), & Dissolved Oxygen (DO):

WQM 7.0 version 1.0b is a water quality model designed to assist DEP to determine appropriate effluent limits for CBOD₅, NH₃-N and DO. The model simulates two basic processes. In the NH₃-N module, the model simulates the mixing and degradation of NH₃-N in the stream and compares calculated instream NH₃-N concentrations to NH₃-N water quality criteria. In the D.O. module, the model simulates the mixing and consumption of D.O. in the stream due to the degradation of CBOD₅ and NH₃-N and compares calculated instream D.O. concentrations to D.O. water quality criteria. Since WQM 7.0 assumes immediate and complete mix between the discharge and stream flow, Q7-10 was adjusted, as shown on page 3, to examine allowable wasteload allocations under appropriate mixing conditions. The model was utilized for this permit renewal by using adjusted Q7-10 and current background water quality levels of the river.

NH₃-N:

WQM 7.0 suggested NH₃-N limit of 8 mg/l as monthly average and 16 mg/l as instantaneous maximum limit to protect water quality standards. Recent DMR data show that the plant is discharging NH₃-N at <0.48 mg/l year-round which is below the permitted limit. The mass loading is calculated to be 47 lbs./day as average monthly, which is the same as in the existing permit. No change in the existing limit is proposed for this renewal.

CBOD₅:

The attached WQM 7.0 modeling results show that secondary treatment is adequate to protect the water quality of the stream. Recent DMRs and inspection reports show that the facility has been consistently achieving concentrations below this existing limit. The WQM 7.0 model suggests a monthly average CBOD₅ limit may be 20 mg/l. The average monthly and average weekly mass

loadings were calculated as 117 lbs./day and 175 lbs./day respectively. These values are the same as were in the existing permit. No change is proposed in this renewal.

Dissolved Oxygen (DO):

A minimum of 5.0 mg/L for D.O. is an existing effluent limit and will remain unchanged in the draft permit. This requirement has also been assigned to other sewage facilities in the region. 5.0 mg/L is taken directly from 25 Pa. Code § 93.7(a) (i.e., water quality criteria for WWF waters) and it is also determined to be appropriate per water quality modeling.

Additional Considerations

pH:

The effluent discharge pH should remain above 6 and below 9 standard units per 25 Pa. Code § 95.2(1) which is consistent with previous permit renewal.

UV Disinfection:

DEP's SOP (1) and 10 States Standard recommends monitoring of UV transmittance (%), UV dosage ($\mu\text{W}/\text{cm}^2$ or $\text{mjoules}/\text{cm}^2$), or UV intensity ($\mu\text{W}/\text{cm}^2$ or $\text{mjoules}/\text{cm}^2$) at the same monitoring frequency that would be used for TRC. The existing permit has daily minimum UV Intensity monitoring requirement which will be carried over in this renewal.

Fecal Coliform:

The recent coliform guidance in 25 Pa. code § 92a.47.(a)(4) requires a summer technology limit of 200/100 ml as a geometric mean and an instantaneous maximum not greater than 1,000/100ml and § 92a.47.(a)(5) requires a winter limit of 2,000/100ml as a geometric mean and an instantaneous maximum not greater than 10,000/100ml. Per the Administrative Manual – Part III Water Quality Regulations (amended) by Delaware River Basin Commission (DRBC), to comply with effective disinfection, the number of organisms of the fecal coliform group remaining after treatment does not exceed 200 per 100 milliliters as a geometric average and 1,000 per 100 milliliters in more than 10 percent of the samples taken over a period of thirty consecutive days. This limit (year-round) is more stringent compared to Chapter 92a requirements. The existing permit has final fecal coliform limit for summer as 200 geo-mean (1,000 as IMAX) and winter limit as 200 geo mean (1,000 as IMAX with 10% rule.) The minimum measurement frequency is 1/week. The existing limits and monitoring frequencies will be carried over in this renewal. It is noteworthy that the unit for fecal coliform is changed from "CFU/100 ml" to "No/100 ml" to reflect current central office guidance (see email in appendix). Since the permittee is using eDMR and eDMR may not be updated yet to report the new unit, the permittee may report as CFU/100 ml with a note that they are using the Colilert test and the results are in MPU/100 ml.

Monitoring Frequency and Sample Types:

Otherwise specified above, the monitoring frequency and sample type of compliance monitoring for existing parameters are recommended by DEP's SOP and Permit Writers Manual and/or on a case-by-case basis using BPJ.

**(1) Establishing Effluent Limitations for Individual Sewage Permits; BPNPSM-PMT-033, Version 1.5, revised August 23, 2013
Flow and Influent Monitoring Requirement:**

The requirement to monitor the volume of effluent will remain in the draft permit per 40 CFR § 122.44(i)(1)(ii). The existing influent monitoring reporting requirement for TSS, CBOD5, and BOD5 will be maintained in the draft permit per Chapter 94 requirement and to check compliance with the secondary treatment.

Total Dissolved Solids (TDS):

TDS and its associated solids including Bromide, Chloride, and Sulfate have become statewide pollutants of concern. The requirement to monitor these pollutants must be considered under the criteria specified in 25 Pa. Code § 95.10. The application data indicated the maximum concentration (out of 3 samples) is 594 mg/l which exceeded the 50% of the DRBC effluent standard of 1,000 mg/l. The existing permit has TDS limit of 1,000 mg/l as average monthly and 2,500 mg/l as instantaneous maximum. It is recommended that existing limits will be carried over as 1,000 mg/l average quarterly limit and 2,500 mg/l as Instantaneous Maximum limit.

Total Phosphorus:

The existing permit has a monitoring only requirement for Total Phosphorus which is recommended to be carried over to characterize the effluent. The application data indicated an average monthly concentration of 5.83 mg/l and maximum value of 9.33 mg/l, out of 101 samples.

PCBs:

Wet and Dry weather PCBs annual monitoring will be carried over in this renewal per Schuylkill River TMDL. Schuylkill River Total Maximum Daily Load (TMDL):

The Schuylkill River Polychlorinated Biphenyls (PCBs) for zones 2-5 of the tidal Delaware River Phase 1 was finalized on December 15, 2003 and Phase 2 was finalized on April 7, 2007. This facility was not identified in the TMDL. Sources were identified during 2003 and, since the facility did not begin discharging until June 2003, it was not in the databases reviewed during the development. However, since it is a direct discharger to the Schuylkill River, the previous permits included a sampling condition in Part C, annual sampling was included in Part A (both wet and dry weather), and development of a Pollution Minimization Plan (PMP). The annual monitoring requirement will be carried over in this renewal.

WETT:

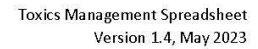
Minor facilities and facilities without a formal EPA approved pretreatment program are exempted from WETT.

Toxics:

Submitted data was evaluated and Toxic Management Spreadsheet (TMS) has been completed for previously identified and monitored Total Copper and Total Zinc (shown below on pps.11-14 of this factsheet).

Based on the TMS monitoring for both parameters of concern will remain in proposed draft permit.

Additional quarterly monitoring for E.coli is added based on recent DEP's guidance to collect data.



Instructions Discharge Stream

Facility:	Possum Hollow STP	NPDES Permit No.:	PA0058041	Outfall No.:	001
Evaluation Type	Custom / Additives	Wastewater Description:	treated sewage		

Discharge Characteristics								
Design Flow (MGD)*	Hardness (mg/l)*	pH (SU)*	Partial Mix Factors (PMFs)				Complete Mix Times (min)	
			AFC	CFC	THH	CRL	Q ₇₋₁₀	Q _n
0.7	140	7						

[illegible]



Toxics Management Spreadsheet
Version 1.4, May 2023

Stream / Surface Water Information

Possum Hollow STP, NPDES Permit No. PA0058041, Outfall 001

Instructions Discharge **Stream**

Receiving Surface Water Name: _____

No. Reaches to Model: 1

- ☒ Statewide Criteria
☐ Great Lakes Criteria
☐ ORSANCO Criteria

Location	Stream Code*	RMI*	Elevation (ft)*	DA (mi ²)*	Slope (ft/ft)	PWS Withdrawal (MGD)	Apply Fish Criteria*
Point of Discharge	000833	47.55	103.3	1170			Yes
End of Reach 1	000833	47.04	100	1190			Yes

Q₇₋₁₀

Location	RMI	LFY (cfs/mi ²)*	Flow (cfs)		W/D Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness*	pH*	Hardness	pH
Point of Discharge	47.55	0.1										100	7		
End of Reach 1	47.04	0.1													

Q_h

Location	RMI	LFY (cfs/mi ²)*	Flow (cfs)		W/D Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness	pH	Hardness	pH
Point of Discharge	47.55														
End of Reach 1	47.04														



Toxics Management Spreadsheet
Version 1.4, May 2023

Model Results

Possum Hollow STP, NPDES Permit No. PA0058041, Outfall 001

Instructions

Results

RETURN TO INPUTS

SAVE AS PDF

PRINT

☒ All ☐ Inputs ☐ Results ☐ Limits

☐ Hydrodynamics

☒ Wasteload Allocations

☒ AFC

CCT (min): 15

PMF: 0.116

Analysis Hardness (mg/l): 102.97

Analysis pH: 7.00

Pollutants	Stream Conc	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Copper	0	0		0	13.814	14.4	194	Chem Translator of 0.96 applied
Total Zinc	0	0		0	120.119	123	1,656	Chem Translator of 0.978 applied

☒ CFC

CCT (min): 720

PMF: 0.801

Analysis Hardness (mg/l): 100.46

Analysis pH: 7.00

Pollutants	Stream Conc	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Copper	0	0		0	8.991	9.37	819	Chem Translator of 0.96 applied
Total Zinc	0	0		0	118.596	120	10,525	Chem Translator of 0.986 applied

☒ THH

CCT (min): 720

PMF: 0.801

Analysis Hardness (mg/l): N/A

Analysis pH: N/A

Pollutants	Stream Conc	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Copper	0	0		0	N/A	N/A	N/A	
Total Zinc	0	0		0	N/A	N/A	N/A	

☒ CRL

CCT (min): #####

PMF: 1

Analysis Hardness (mg/l): N/A

Analysis pH: N/A

Pollutants	Stream Conc	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Copper	0	0		0	N/A	N/A	N/A	
Total Zinc	0	0		0	N/A	N/A	N/A	

☒ Recommended WQBELs & Monitoring Requirements

No. Samples/Month: 4

NPDES Permit Fact Sheet
Possum Hollow Sewer System & STP

NPDES Permit No. PA0058041

Pollutants	Mass Limits		Concentration Limits				Governing WQBEL	WQBEL Basis	Comments
	AML (lbs/day)	MDL (lbs/day)	AML	MDL	IMAX	Units			
Total Copper	Report	Report	Report	Report	Report	mg/L	0.12	AFC	Discharge Conc > 10% WQBEL (no RP)
Total Zinc	Report	Report	Report	Report	Report	mg/L	1.06	AFC	Discharge Conc > 10% WQBEL (no RP)

☒ **Other Pollutants without Limits or Monitoring**

The following pollutants do not require effluent limits or monitoring based on water quality because reasonable potential to exceed water quality criteria was not determined and the discharge concentration was less than thresholds for monitoring, or the pollutant was not detected and a sufficiently sensitive analytical method was used (e.g., <= Target QL).

Pollutants	Governing WQBEL	Units	Comments

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	Weekly Average	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	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	5.0 Inst Min	XXX	XXX	XXX	1/day	Grab
CBOD5 Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
CBOD5	117	175	XXX	20	30	40	1/week	24-Hr Composite
BOD5 Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
TSS Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
TSS	175	263	XXX	30	45	60	1/week	24-Hr Composite
Total Dissolved Solids	XXX	XXX	XXX	1000.0 Avg Qrtly	XXX	2500	1/quarter	24-Hr Composite
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
E.Coli	XXX	XXX	XXX	XXX	XXX			
UV Intensity (µw/cm²)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Recorded
Ammonia	47	XXX	XXX	8.0	XXX	16	1/week	24-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	Weekly Average	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Total Phosphorus	Report	XXX	XXX	Report	XXX	Report	1/week	24-Hr Composite
Total Copper	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite
Total Zinc	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite

Compliance Sampling Location: Outfall 001

Approve	Deny	Signatures	Date
X		<i>Begay Omuralieva</i> Begay Omuralieva / Environmental Engineering Specialist	May 9, 2024
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	05/09/2024