

NPDES PERMIT NO.: NC0047384

PERMIT VERSION: 4.0

PERMIT STATUS: Expired

FACILITY NAME: T.Z. Osborne WWTP

CLASS: WW-4

COUNTY: Guilford

OWNER NAME: City of Greensboro

ORC: Bradley Todd Flynt

ORC CERT NUMBER: 27171

GRADE: WW-4

ORC HAS CHANGED: No

eDMR PERIOD: 09-2021 (September 2021)

VERSION: 2.0

STATUS: Submitted

SAMPLING LOCATION: EFFLUENT DISCHARGE NO.: 001 NO DISCHARGE*: NO

Date	Composite Sample Time	Total Composite Time	Operator Arrival Time	Operator Time On Site	ORC On Site? **	No Reporting Reason ***	50050	00010	00400	50060	CO610	CO530	31616	00300	QY600		
							Continuous	5 X week	5 X week	5 X week	5 X week	5 X week	5 X week	5 X week	5 X week	5 X week	Annually
							Recorder	Grab	Grab	Grab	Composite	Composite	Grab	Grab	Calculated		
						FLOW	TEMP-C	pH	CHLORINE	NH3-N - Conc	TSS - Conc	FCOLI BR	DO	TOTAL N - Qty			
	2400 clock	Hrs	2400 clock	Hrs	Y/B/N		mgd	deg c	su	ug/l	mg/l	mg/l	#/100ml	mg/l	lbs/yr		
1		24	7	24	Y		31.81	29.9	7.6	< 14	< 0.1	< 2.5	83.6	7.14			
2		24	7	24	Y		31.62	29.4	7.6	< 14	< 0.1	< 2.5	> 2419.6	7.28			
3		24	7	24	Y		31.65	28.8	7.6	< 14	< 0.1	< 2.5	18.5	7.27			
4		24	7	24	B		28.92										
5		24	7	24	B		28.72										
6		24	7	24	Y		27.82	H	H	H	H	H	H	H			
7		24	7	24	Y		29.79	27.9	7.5	< 14	< 0.1	< 2.5	7.36	7.3			
8		24	7	24	Y		33.78	28.5	7.4	< 14	< 0.1	< 2.5	77.1	7.36			
9		24	7	24	Y		31.77	28.5	7.7	< 14	< 0.1	< 2.5	> 2419.6	7.27			
10		24	7	24	Y		31.5	28	7.6	< 14	< 0.1	< 2.5	140.1	7.29			
11		24	7	24	B		27.91										
12		24	7	24	B		29.01										
13		24	7	24	Y		30.71	28	7.7	< 14	< 0.1	< 2.5	12.9	7.35			
14		24	7	24	Y		30.39	28.1	7.7	< 14	< 0.1	< 2.5	3.1	7.32			
15		24	7	24	Y		29.97	28.1	7.6	< 14	< 0.1	< 2.5	6.3	7.3			
16		24	7	24	Y		30.88	28.6	7.7	< 14	< 0.1	< 2.5	5.1	7.31			
17		24	7	24	Y		32.1	28.2	7.7	< 14	< 0.1	< 2.5	5.2	7.26			
18		24	7	24	B		29.8										
19		24	7	24	B		28.83										
20		24	7	24	Y		31.47	27.9	7.7	< 14	< 0.1	< 2.5	5.5	7.29			
21		24	7	24	Y		35.33	27.5	7.7	< 14	< 0.1	< 2.5	1	7.34			
22		24	7	24	Y		40.97	27.5	7.7	< 14	< 0.1	< 2.5	162.4	7.43			
23		24	7	24	Y		41.01	27.1	7.6	< 14	0.64	< 2.5	1	7.6			
24		24	7	24	Y		34.42	26.2	7.7	< 14	0.18	< 2.5	13.5	7.68			
25		24	7	24	B		29.16										
26		24	7	24	B		28.27										
27		24	7	24	Y		32.06	26.4	7.7	< 14	< 0.1	< 2.5	6.6	7.61			
28		24	7	24	Y		30.81	26.6	7.7	< 14	< 0.1	< 2.5	2	7.73			
29		24	7	24	Y		31.41	27	7.7	< 14	< 0.1	< 2.5	6.3	7.68			
30		24	7	24	Y		30.03	27.4	7.7	< 14	< 0.1	< 2.5	1	7.34			
Monthly Average Limit:							56				2	30	200				
Monthly Average:							31.397333	27.885714		0	0.039048	0	14.975976	7.388095			
Daily Maximum:							41.01	29.9	7.7	0	0.64	0	2419.6	7.73			
Daily Minimum:							27.82	26.2	7.4	0	0	0	1	7.14			

**** No Reporting Reason: ENFRUSE = No Flow-Reuse/Recycle; ENVWTHR = No Visitation - Adverse Weather; NOFLOW = No Flow; HOLIDAY = No Visitation - Holiday

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SAMPLING LOCATION: EFFLUENT DISCHARGE NO.: 001 NO DISCHARGE*: NO (Continue)

Date	Composite Sample Time	Total Composite Time	Operator Arrival Time	Operator Time On Site	ORC On Site?*	No Reporting Reason***	QM600	CO600	QY665	QM665	CO665	82388	80082	00630	00625	01147	01097
							Monthly	Weekly	Annually	Monthly	Weekly	Weekly	5 X week	Weekly	Weekly	Monthly	
							Calculated	Composite	Calculated	Calculated	Composite	Grab	Composite	Composite	Composite	Composite	Composite
							TOTAL N -	TOTAL N -	Total P - Qty	Total P - Qty	TOTAL P -	14DIOXAN	CBOD 20C	NO2&NO3	TOT KJEL	Se-TOTAL	ANTIMONY
	2400 clock	Hrs	2400 clock	Hrs	Y/B/N		lb/mon	mg/l	lbs/yr	lb/mon	mg/l	ug/l	mg/l	mg/l	ug/l	ug/l	ug/l
1		24	7	24	Y			9.18				5.28	< 2	6.58	2.6		
2		24	7	24	Y						0.898		< 2				
3		24	7	24	Y						0.552		< 2				
4		24	7	24	B												
5		24	7	24	B												
6		24	7	24	Y			H			H		H	H	H	H	H
7		24	7	24	Y								< 2				
8		24	7	24	Y			9.24				1.95	< 2	7.76	1.48	< 1	
9		24	7	24	Y								< 2				
10		24	7	24	Y						4.53		< 2				
11		24	7	24	B												
12		24	7	24	B												
13		24	7	24	Y						0.75		5.56				
14		24	7	24	Y						0.37		< 2				
15		24	7	24	Y			5.06			0.455	4.52	< 2	2.77	2.29		
16		24	7	24	Y						0.36		< 2				
17		24	7	24	Y						0.688		< 2				
18		24	7	24	B												
19		24	7	24	B												
20		24	7	24	Y						0.558		< 2				
21		24	7	24	Y						0.945		< 2				
22		24	7	24	Y			5.57			1.04	7.17	< 2	2.82	2.75		
23		24	7	24	Y						1.51		< 2				
24		24	7	24	Y								< 2				
25		24	7	24	B												
26		24	7	24	B												
27		24	7	24	Y						0.253		< 2				
28		24	7	24	Y						0.218		< 2				
29		24	7	24	Y			4.62			0.173	3.38	2.82	2.55	2.07		
30		24	7	24	Y		52867.1515			6661	0.26		< 2				
Monthly Average Limit:													4			5.1	
Monthly Average:							52867.1515	6.734		6661	0.8475	4.46	0.399048	4.496	2.238	0	
Daily Maximum:							52867.1515	9.24		6661	4.53	7.17	5.56	7.76	2.75	0	
Daily Minimum:							52867.1515	4.62		6661	0.173	1.95	0	2.55	1.48	0	

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Date	Composite Sample Time	Total Composite Time	Operator Arrival Time	Operator Time On Site	ORC On Site**	No Reporting Reason***	01002	01012	01027	01034	01037	01042	00720	00900	01051	COMER	01067	
							Composite	Composite	Composite	Composite	Composite	Composite	Grab	Composite	Composite	Grab	Composite	
							As-TOTAL	BERYLIUM	CADMIUM	Cr-TOTAL	COBALT	COPPER	CN-TOT	TOT HARD	LEAD	MERCURY -	NICKEL	
	2400 clock	Hrs	2400 clock	Hrs	Y/B/N		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	mg/l	ug/l	ug/l	ug/l	ug/l	
1		24	7	24	Y													
2		24	7	24	Y													
3		24	7	24	Y													
4		24	7	24	B													
5		24	7	24	B													
6		24	7	24	Y		H	H	H	H	H	H	H		H	H	H	
7		24	7	24	Y													
8		24	7	24	Y		2		< 0.15	< 2		2			< 0.5			6.6
9		24	7	24	Y													
10		24	7	24	Y													
11		24	7	24	B													
12		24	7	24	B													
13		24	7	24	Y													
14		24	7	24	Y													
15		24	7	24	Y													
16		24	7	24	Y													
17		24	7	24	Y													
18		24	7	24	B													
19		24	7	24	B													
20		24	7	24	Y													
21		24	7	24	Y													
22		24	7	24	Y													
23		24	7	24	Y													
24		24	7	24	Y													
25		24	7	24	B													
26		24	7	24	B													
27		24	7	24	Y													
28		24	7	24	Y													
29		24	7	24	Y											0.0017		
30		24	7	24	Y													
Monthly Average Limit:																		
Monthly Average:							2		0	0		2			0	0.0017	6.6	
Daily Maximum:							2		0	0		2			0	0.0017	6.6	
Daily Minimum:							2		0	0		2			0	0.0017	6.6	

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Date	Composite Sample Time	Total Composite Time	Operator Arrival Time	Operator Time On Site	ORC On Site**	No Reporting Reason***	TGP3B	01077	01059	01102	01152	01087	01092
							Composite	Composite	Composite	Composite	Composite	Composite	Composite
							CERI7DPF	SILVER	THALLIUM	TIN	TITANIUM	VANADIUM	ZINC
	2400 clock	Hrs	2400 clock	Hrs	Y/B/N	pass/fail	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
1		24	7	24	Y								
2		24	7	24	Y								
3		24	7	24	Y								
4		24	7	24	B								
5		24	7	24	B								
6		24	7	24	Y			H	H	H	H	H	H
7		24	7	24	Y								
8		24	7	24	Y			< 0.5					36
9		24	7	24	Y								
10		24	7	24	Y								
11		24	7	24	B								
12		24	7	24	B								
13		24	7	24	Y								
14		24	7	24	Y								
15		24	7	24	Y								
16		24	7	24	Y								
17		24	7	24	Y								
18		24	7	24	B								
19		24	7	24	B								
20		24	7	24	Y								
21		24	7	24	Y								
22		24	7	24	Y								
23		24	7	24	Y								
24		24	7	24	Y								
25		24	7	24	B								
26		24	7	24	B								
27		24	7	24	Y								
28		24	7	24	Y								
29		24	7	24	Y								
30		24	7	24	Y								
Monthly Average Limit:													
Monthly Average:								0					36
Daily Maximum:								0					36
Daily Minimum:								0					36

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SAMPLING LOCATION: INFLUENT DISCHARGE NO.: 001

Date	Composite Sample Time 2400	Total Composite Time Hrs	No Reporting Reason****	CO530	80082	CO610	CO665	80091	81011
				5 X week	5 X week				
				Composite	Composite	Composite	Composite	Composite	Composite
				TSS - Conc	CBOD 20C	NH3-N - Conc	TOTAL P - Conc	CBOD5-%R	TSS-%R
				mg/l	mg/l	mg/l	mg/l	percent	percent
1		24		354	451	25.75			
2		24		296	284	24.24	12.01		
3		24		379	416	23.43			
4		24							
5		24							
6		24		H	H	H	H		
7		24		233	208	18.23			
8		24		268	290	21.65			
9		24		256	298	22.51			
10		24		290	333	29.2	10.42		
11		24							
12		24							
13		24		240	274	18.34			
14		24		307	273	22.87			
15		24		278	344	21.71			
16		24		254	325	24.7	11.86		
17		24		331	289	22.45			
18		24							
19		24							
20		24		242	271	20.89			
21		24		289	310	17.6			
22		24		280	360	20.55			
23		24		296	279	20.56	10.15		
24		24		204	284	19.89			
25		24							
26		24							
27		24		245	266	18.11			
28		24		232	245	16.53			
29		24		306	303	22.77			
30		24		253	396	25.55	12.99	99.871082	100
Monthly Average Limit:									
Monthly Average:				277.761905	309.47619	21.787143	11.486	99.871082	100
Daily Maximum:				379	451	29.2	12.99	99.871082	100
Daily Minimum:				204	208	16.53	10.15	99.871082	100

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COMPLIANCE STATUS: Compliant

CONTACT PHONE #: 433-7262

SUBMISSION DATE: 01/19/2022

Electronically Certified by Bradley Todd Flynt on 2022-01-19 09:25:22.093

ORC / Certifier Signature: Bradley Todd Flynt

Phone #: 3364337262

Date

I certify that this report is accurate and complete to the best of my knowledge.

The permittee shall report to the Director or the appropriate Regional Office any noncompliance that potentially threatens public health or the environment. Any information shall be provided orally within 24 hours from the time the permittee became aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall be made as required by part I.I.E.6 of the NPDES permit.

Electronically Signed by Elijah Lamont Williams on 2022-01-19 13:47:02.17

Permittee/Submitter Signature: ***Elijah Lamont Williams

Phone #: 336-373-4632

Date

Permittee Address: 2350 Huffin Mill Rd Mc Leansville NC 273019304

Permit Expiration Date: 06/30/2019

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

CERTIFIED LABORATORIES

LAB NAME: TZO Laboratory, Meritech Labs Inc, Pace Analytical Services

CERTIFIED LAB #: #65, #165, #12

PERSON(S) COLLECTING SAMPLES: Automatic Sampler

PARAMETER CODES

Parameter Code assistance may be obtained by visiting <https://deq.nc.gov/about/divisions/water-resources/edmr/user-documentation>.

FOOTNOTES

Use only units of measurement designated in the reporting facility's NPDES permit for reporting data.

* No Flow/Discharge From Site: YES indicates that No Flow/Discharge occurred and, as a result, no data is reported for any parameter on the DMR for the entire monitoring period.

** ORC on Site?: ORC must visit facility and document visitation of facility as required per 15A NCAC 8G .0204.

*** Signature of Permittee: If signed by other than the permittee, then delegation of the signatory authority must be on file with the state per 15A NCAC 2B .0506(b)(2)(D).

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Report Comments:

AMENDED eDMR to add delayed effluent mercury result. Meritech Lab collects/analyzes the TZ Osborne Low Level Mercury samples and their instrument was inoperable for several months beginning in July 2021.

Data Qualifications-CBOD: Glucose/Glutamic Acid standard out of range on 9/1; Dilution water depleted > 0.20 mg/l on 9/2, 9/16; NB Influent duplicate RPD >30% on 9/23;

TSS: Effluent duplicate RPD >30% on 9/15, 9/16-both values on both days = <2.5 mg/l. Effluent low level mercury sample collected and preserved by Meritech Laboratory.