

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: 12-2022 (December 2022)

VERSION: 1.0

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	CO600			
							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	5 X week	Weekly
							Recorder	Grab	Grab	Grab	Composite	Composite	Grab	Grab	Composite			
							FLOW	TEMP-C	pH	CHLORINE	NH3-N - Conc	TSS - Conc	FCOLI BR	DO	TOTAL N -			
	2400 clock	Hrs	2400 clock	Hrs	Y/B/N		mgd	deg c	su	ug/l	mg/l	mg/l	#/100ml	mg/l	mg/l			
1		24	7	24	Y		37.55	19.4	7.6	< 14	< 0.1	4.74	3.1	9.01				
2		24	7	24	Y		32.99	20	7.6	< 14	< 0.1	< 5	2	9.06				
3		24	7	24	B		34.34											
4		24	7	24	B		31.38											
5		24	7	24	Y		32.46	20.2	7.7	< 14	< 0.1	4.2	7.4	9.07				
6		24	7	24	Y		33.09	20.3	7.6	< 14	< 0.1	4.4	5.2	9.18				
7		24	7	24	Y		36.41	21	7.7	< 14	< 0.1	3.8	1	8.91	3.3			
8		24	7	24	Y		35.04	21.2	7.6	< 14	< 0.1	3.3	18.5	8.8				
9		24	7	24	Y		35.89	21.1	7.8	< 14	< 0.1	3.6	9.8	9				
10		24	7	24	B		33.71											
11		24	7	24	B		32.42											
12		24	7	24	Y		31.21	21	7.7	< 14	< 0.1	3.55	4.1	9.21				
13		24	7	24	Y		31.37	20.2	7.7	< 14	< 0.1	3.54	4.4	8.82				
14		24	7	24	Y		33.85	20	7.7	< 14	< 0.1	3.47	4.1	8.91	2.42			
15		24	7	24	Y		47.25	19.7	7.5	< 14	< 0.1	3.65	104.3	8.85				
16		24	7	24	Y		41.54	18.7	7.6	< 14	0.179	4.6	13.4	9.27				
17		24	7	24	B		33.04											
18		24	7	24	B		31.98											
19		24	7	24	Y		31.44	19.1	7.6	39.4	< 0.1	3.6	2	9.51				
20		24	7	24	Y		32.63	19.1	7.5	< 14	< 0.1	< 3.33	< 1	9.1				
21		24	7	24	Y		31.65	19.5	7.6	< 14	< 0.1	3.74	8.6	9.51	4.58			
22		24	7	24	Y		38.65	19	7.7	< 14	0.1	4.27	3.1	9.53				
23		24	7	24	B		41.26	H	H	H	H	H	H	H	H			
24		24	7	24	B		38											
25		24	7	24	B		35.81											
26		24	7	24	B		34.92	H	H	H	H	H	H	H	H			
27		24	7	24	B		33.31	H	H	H	H	H	H	H	H			
28		24	7	24	Y		33.31	17.1	7.6	< 14	< 0.1	4.54	3.2	9.52				
29		24	7	24	Y		31.44	17.3	7.5	< 14	< 0.1	< 5	4.1	10.03	6.21			
30		24	7	24	Y		32.31	18	7.6	< 14	< 0.1	5	3.1	9.61				
31		24	7	24	B		30.44											
Monthly Average Limit:							56				4	30	200					
Monthly Average:							34.538387	19.573684		2.073684	0.014684	3.368421	4.8251	9.205263	4.1275			
Daily Maximum:							47.25	21.2	7.8	39.4	0.179	5	104.3	10.03	6.21			
Daily Minimum:							30.44	17.1	7.5	0	0	0	0	8.8	2.42			

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

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Date	Composite Sample Time	Total Composite Time	Operator Arrival Time	Operator Time On Site	ORC On Site**	No Reporting Reason****	QY600	QM600	QY665	QM665	CO665	82388	80082	00630	00625	01147	01097	
							Annually	Monthly	Annually	Monthly	Weekly	Weekly	5 X week	Weekly	Weekly	Monthly		
							Calculated	Calculated	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	lbs/yr	lb/mon	lbs/yr	lb/mon	mg/l	ug/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	
1		24	7	24	Y							<2						
2		24	7	24	Y							<2						
3		24	7	24	B													
4		24	7	24	B													
5		24	7	24	Y							<2						
6		24	7	24	Y					0.178	6.8	<2						
7		24	7	24	Y							<2	0.25	3.05	<1			
8		24	7	24	Y							<2						
9		24	7	24	Y							<2						
10		24	7	24	B													
11		24	7	24	B													
12		24	7	24	Y							<2						
13		24	7	24	Y					0.248	4.06	<2						
14		24	7	24	Y							<2	0.66	1.76				
15		24	7	24	Y							<2						
16		24	7	24	Y							2.51						
17		24	7	24	B													
18		24	7	24	B													
19		24	7	24	Y							<2						
20		24	7	24	Y					0.301	4.71	<2						
21		24	7	24	Y							<2	1.51	3.07				
22		24	7	24	Y							<2						
23		24	7	24	B					H		H	H	H	H	H	H	
24		24	7	24	B													
25		24	7	24	B													
26		24	7	24	B					H		H	H	H	H	H	H	
27		24	7	24	B					H		H	H	H	H	H	H	
28		24	7	24	Y						2.02	<2						
29		24	7	24	Y					1.1		<2	3.29	2.92				
30		24	7	24	Y							<2						
31		24	7	24	B		518183	36879.4049	52742	4081								
Monthly Average Limit:												8			5.1			
Monthly Average:							518183	36879.4049	52742	4081	0.45675	4.3975	0.132105	1.4275	2.7	0		
Daily Maximum:							518183	36879.4049	52742	4081	1.1	6.8	2.51	3.29	3.07	0		
Daily Minimum:							518183	36879.4049	52742	4081	0.178	2.02	0	0.25	1.76	0		

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							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															
1		24	7	24	Y															
2		24	7	24	Y															
3		24	7	24	B															
4		24	7	24	B															
5		24	7	24	Y															
6		24	7	24	Y															
7		24	7	24	Y		< 2		< 0.15	3		< 2			< 0.5			11.9		
8		24	7	24	Y															
9		24	7	24	Y															
10		24	7	24	B															
11		24	7	24	B															
12		24	7	24	Y															
13		24	7	24	Y												0.0022			
14		24	7	24	Y															
15		24	7	24	Y															
16		24	7	24	Y															
17		24	7	24	B															
18		24	7	24	B															
19		24	7	24	Y															
20		24	7	24	Y															
21		24	7	24	Y															
22		24	7	24	Y															
23		24	7	24	B		H	H	H	H	H	H	H		H	H	H			
24		24	7	24	B															
25		24	7	24	B															
26		24	7	24	B		H	H	H	H	H	H	H		H	H	H			
27		24	7	24	B		H	H	H	H	H	H	H		H	H	H			
28		24	7	24	Y															
29		24	7	24	Y															
30		24	7	24	Y															
31		24	7	24	B															
Monthly Average Limit:																				
Monthly Average:							0		0	3		0				0		0.0022	11.9	
Daily Maximum:							0		0	3		0				0		0.0022	11.9	
Daily Minimum:							0		0	3		0				0		0.0022	11.9	

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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
							CER17/DPF	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
1		24	7	24	Y								
2		24	7	24	Y								
3		24	7	24	B								
4		24	7	24	B								
5		24	7	24	Y								
6		24	7	24	Y								
7		24	7	24	Y			< 0.5					62
8		24	7	24	Y								
9		24	7	24	Y								
10		24	7	24	B								
11		24	7	24	B								
12		24	7	24	Y								
13		24	7	24	Y								
14		24	7	24	Y								
15		24	7	24	Y								
16		24	7	24	Y								
17		24	7	24	B								
18		24	7	24	B								
19		24	7	24	Y								
20		24	7	24	Y								
21		24	7	24	Y								
22		24	7	24	Y								
23		24	7	24	B			H	H	H	H	H	H
24		24	7	24	B								
25		24	7	24	B								
26		24	7	24	B			H	H	H	H	H	H
27		24	7	24	B			H	H	H	H	H	H
28		24	7	24	Y								
29		24	7	24	Y								
30		24	7	24	Y								
31		24	7	24	B								
Monthly Average Limit:													
Monthly Average:								0					62
Daily Maximum:								0					62
Daily Minimum:								0					62

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SAMPLING LOCATION: INFLUENT DISCHARGE NO.: 001

Date	Composite Sample Time	Total Composite Time	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
	2400	Hrs		mg/l	mg/l	mg/l	mg/l	percent	percent
1		24		262	277	16.7			
2		24		282	350	23.7			
3		24							
4		24							
5		24		371	316	25			
6		24		299	461	21.1	7.39		
7		24		280	368	23.8			
8		24		310	304	22.3			
9		24		295	370	20.9			
10		24							
11		24							
12		24		226	350	23.3			
13		24		471	366	20.8	22.42		
14		24		314	378	22.1			
15		24		538	355	26.3			
16		24		230	265	14.5			
17		24							
18		24							
19		24		263	245	20.9			
20		24		322	322	22.2	14.13		
21		24		317	416	27.5			
22		24		296	448	25.8			
23		24		H	H	H	H		
24		24							
25		24							
26		24		H	H	H	H		
27		24		H	H	H	H		
28		24		242	355	21.5			
29		24		265	341	21.8	7.49		
30		24		309	355	23			
31		24						99.967622	98.91375
Monthly Average Limit:									
Monthly Average:				310.105263	349.578947	22.273684	12.8575	99.967622	98.91375
Daily Maximum:				538	461	27.5	22.42	99.967622	98.91375
Daily Minimum:				226	245	14.5	7.39	99.967622	98.91375

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COMPLIANCE STATUS: Compliant

CONTACT PHONE #: 4337262

SUBMISSION DATE: 01/23/2023

Electronically Certified by Bradley Todd Flynt on 2023-01-23 15:38:11.299

ORC/Certifier Signature: Bradley Todd Flynt

Phone #: 3364337262

Date 1-24-23

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 II.E.6 of the NPDES permit.

Electronically Signed by Elijah Lamont Williams on 2023-01-23 16:02:14.608

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:

Data Qualifications- Glucose/Glutamic Acid standard out of range on 12/1, 12/2, 12/19; Blank depleted >0.20 mg/l on 12/15, 12/16, 12/29; Seed did not meet 2/1 oxygen depletion rule on 12/1. The residual chlorine value on 12/19 is an average of 8 samples.

Ammonia-Nitrogen: Preservation time was greater than 15 minutes for the TZO influent on 12/5 and North Buffalo Influent on 12/7.

Total Phosphorus: TZO Influent on 12/13 re-run 3 times to get valid result but value recorded was run out of hold time.

The North Buffalo Influent of 12/12 is being qualified. The preserved ammonia/total phosphorus sample was poured back into the composite jug by a new operator. The pH of the composite sample was adjusted but did not meet preservation criteria.

CY 2022 Total Nitrogen and Total Phosphorus Nutrient Report has been uploaded along with the eDMR.

CITY OF GREENSBORO NUTRIENT DISCHARGES - [required by NPDES Permit NC0047384 - Section A.(9.) - Submit with December eDMIR]

T. Z. OSBORNE NC0047384: TN Limits and TP Limits from Jordan Lake Rules

	2022		^TN Load		NPDES TN		^TP Load		NPDES TP	
	Total Q MG/month	Avg TN mg/l	lbs/mo	EOP	LIMITS (lbs/year)	mg/l	lbs/mo	EOP	LIMITS (lbs/year)	
January 2022	1037.4	4.98	43,087		↓	0.281	2,431		↓	
February 2022	961.1	3.86	30,940		↓	0.269	2,156		↓	
March 2022	1137.5	3.19	30,263		↓	0.264	2,505		↓	
April 2022	1012.3	3.63	30,647		↓	0.493	4,162		↓	
May 2022	987.6	12.52	103,122		↓	0.701	5,774		↓	
June 2022	896.2	6.14	45,892		↓	0.535	3,999		↓	
July 2022	953.8	4.80	38,183		↓	0.748	5,950		↓	
August 2022	960.2	5.56	44,525		↓	0.916	7,335		↓	
September 2022	936.6	4.65	36,322		↓	0.847	6,616		↓	
October 2022	953.2	5.70	45,313		↓	0.491	3,903		↓	
November 2022	974.9	4.06	33,011		↓	0.471	3,830		↓	
December 2022	1070.7	4.13	36,879		↓	0.457	4,081		↓	
TZO END OF PIPE DISCHARGE	11881.5	5.27	518,183		↓	0.539	52,742		↓	
NPDES ANNUAL LIMITS (lbs/year)					891,272				112,044	
% of EOP Discharge Limits					58.14				47.07	
TZO Transport Factor (to Lake)					↓				↓	
TZO Delivered Load (to Lake)					0.45				0.44	
% of Delivered To Lake Limit					233,183				23,207	
EOP = End of Pipe					0.45				0.44	
TN = Total Nitrogen					401,072				49,299	
TP = Total Phosphorus					58.14				47.07	
Q = Flow										
					EOP 74,272 lb/mo				EOP 9337 lbs/mo	
					(based on design Q				(based on design Q	
					and 5.228 mg/l EOP)				and 0.657 mg/l EOP)	