

NPDES PERMIT NO.: NC0047384
 FACILITY NAME: T.Z. Osborne WWTP
 OWNER NAME: City of Greensboro
 GRADE: WW-4
 eDMR PERIOD: 05-2022 (May 2022)

PERMIT VERSION: 4.0
 CLASS: WW-4
 ORC: Bradley Todd Flynt
 ORC HAS CHANGED: No
 VERSION: 1.0

PERMIT STATUS: Expired
 COUNTY: Guilford
 ORC CERT NUMBER: 27171
 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	QM600	
							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	Monthly
							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	V/B/N	mgd	deg c	su	ug/l	mg/l	mg/l	#/100ml	mg/l	lb/mon		
1		24	7	24	B		33.02									
2		24	7	24	Y		33.16	22.7	7.6	< 14	< 0.1	4.55	8.7	8.23		
3		24	7	24	Y		33.71	22.1	7.5	< 14	0.106	5.6	2	8.31		
4		24	7	24	Y		29.39	23	7.3	< 14	7.87	17.7	> 2419.6	7.97		
5		24	7	24	Y		32.34	23.4	7.5	< 14	24.5	34.5	> 2419.6	8.11		
6		24	7	24	Y		32.63	23.3	7.7	< 14	29.3	26	> 4839.2	8.11		
7		24	7	24	B		33.26									
8		24	7	24	B		31.9									
9		24	7	24	B		30.81	21.1	7.7	< 14	16	6.47	1	8.53		
10		24	7	24	B		31.31	21.2	7.6	< 14	16	4.14	2	8.36		
11		24	7	24	Y		32.6	21.3	7.6	< 14	13.8	3.25	< 1	8.42		
12		24	7	24	Y		31.16	21.5	7.6	< 14	9.22	2.85	7.3	8.4		
13		24	7	24	Y		31.11	22.1	7.6	< 14	3.52	2.95	2	8.16		
14		24	7	24	B		32.18									
15		24	7	24	B		28.92									
16		24	7	24	Y		33.05	22.9	7.6	< 14	0.12	4.2	1.41	8.03		
17		24	7	24	Y		27.81	22.2	7.7	< 14	< 0.1	< 2.5	< 1	8.44		
18		24	7	24	Y		30.95	23.6	7.6	< 14	< 0.1	2.7	3.1	8.03		
19		24	7	24	Y		31.29	23.6	7.7	< 14	< 0.1	3.4	7.2	8.02		
20		24	7	24	Y		32.09	24	7.7	< 14	< 0.1	5.13	3.1	7.91		
21		24	7	24	B		27.22									
22		24	7	24	B		31.42									
23		24	7	24	Y		33.77	24.4	7.7	< 14	< 0.1	3.1	3	7.91		
24		24	7	24	Y		40.69	23.7	7.5	< 14	< 0.1	4.67	4.1	8.09		
25		24	7	24	Y		36.32	23.2	7.6	< 14	< 0.1	4.14	2	8.13		
26		24	7	24	Y		32.37	23.8	7.6	< 14	< 0.1	4.6	4.1	8.08		
27		24	7	24	Y		34.08	23.7	7.6	< 14	< 0.1	5.67	30.1	8.04		
28		24	7	24	B		30.46									
29		24	7	24	B		28.6									
30		24	7	24	B		28.7	H	H	H	H	H	H	H		
31		24	7	24	Y		31.25	24.2	7.5	< 14	< 0.1	5.2	1	7.65	103122.03168	
Monthly Average Limit:							56				2	30	200			
Monthly Average:							31.857097	22.904762		0	5.735048	7.181905	7.711362	8.139524	103122.03168	
Daily Maximum:							40.69	24.4	7.7	0	29.3	34.5	4839.2	8.53	103122.03168	
Daily Minimum:							27.22	21.1	7.3	0	0	0	0	7.65	103122.03168	

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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: 05-2022 (May 2022)

VERSION: 1.0

STATUS: Submitted

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****	CO600	QY600	QM665	QY665	CO665	82388	80082	00630	00625	01147	01097	
							Weekly	Annually	Monthly	Annually	Weekly	Weekly	5 X week	Weekly	Weekly	Monthly		
							Composite	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	mg/l	lbs/yr	lb/mon	lbs/yr	mg/l	ug/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	
1		24	7	24	B													
2		24	7	24	Y													
3		24	7	24	Y					0.341	3.36		< 2					
4		24	7	24	Y		18.37						49.1	0.87	17.5			
5		24	7	24	Y								27.8					
6		24	7	24	Y								56.9					
7		24	7	24	B													
8		24	7	24	B													
9		24	7	24	B								4.93					
10		24	7	24	B						2.76		2.18					
11		24	7	24	Y								< 2					
12		24	7	24	Y		15.66			0.527			< 2	4.66	11			
13		24	7	24	Y								< 2					
14		24	7	24	B													
15		24	7	24	B													
16		24	7	24	Y								2.1					
17		24	7	24	Y					0.582	1.96		< 2					
18		24	7	24	Y		7.32						< 2	4.95	2.37			
19		24	7	24	Y								2.43					
20		24	7	24	Y								2.14					
21		24	7	24	B													
22		24	7	24	B													
23		24	7	24	Y								< 2					
24		24	7	24	Y					1.23	1.89		< 2					
25		24	7	24	Y		8.74						< 2	5.98	2.76	< 1		
26		24	7	24	Y								< 2					
27		24	7	24	Y								< 2					
28		24	7	24	B													
29		24	7	24	B													
30		24	7	24	B		H			H			H	H	H	H	H	H
31		24	7	24	Y				5774	0.827	2		< 2					
Monthly Average Limit:													4			5.1		
Monthly Average:							12.5225		5774		0.7014	2.394	7.027619	4.115	8.4075	0		
Daily Maximum:							18.37		5774		1.23	3.36	56.9	5.98	17.5	0		
Daily Minimum:							7.32		5774		0.341	1.89	0	0.87	2.37	0		

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 ORC HAS CHANGED: No
 VERSION: 1.0

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 COUNTY: Guilford
 ORC CERT NUMBER: 27171
 STATUS: Submitted

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****	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	B													
2		24	7	24	Y													
3		24	7	24	Y													
4		24	7	24	Y													
5		24	7	24	Y													
6		24	7	24	Y													
7		24	7	24	B													
8		24	7	24	B													
9		24	7	24	B													
10		24	7	24	B													
11		24	7	24	Y													
12		24	7	24	Y													
13		24	7	24	Y													
14		24	7	24	B													
15		24	7	24	B													
16		24	7	24	Y													
17		24	7	24	Y													
18		24	7	24	Y													
19		24	7	24	Y													
20		24	7	24	Y													
21		24	7	24	B													
22		24	7	24	B													
23		24	7	24	Y													
24		24	7	24	Y													
25		24	7	24	Y		< 2		< 0.15	2		3			< 0.5			10
26		24	7	24	Y													
27		24	7	24	Y													
28		24	7	24	B													
29		24	7	24	B													
30		24	7	24	B		H	H	H	H	H	H	H		H	H	H	H
31		24	7	24	Y											0.0036		
Monthly Average Limit:																		
Monthly Average:							0		0	2		3			0	0.0036	10	
Daily Maximum:							0		0	2		3			0	0.0036	10	
Daily Minimum:							0		0	2		3			0	0.0036	10	

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 OWNER NAME: City of Greensboro
 GRADE: WW-4.
 eDMR PERIOD: 05-2022 (May 2022)

PERMIT VERSION: 4.0
 CLASS: WW-4.
 ORC: Bradley Todd Flynt
 ORC HAS CHANGED: No
 VERSION: 1.0

PERMIT STATUS: Expired
 COUNTY: Guilford
 ORC CERT NUMBER: 27171
 STATUS: Submitted

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****	TGP3B	01077	01059	01102	01152	01087	01092	
							Composite	Composite	Composite	Composite	Composite	Composite	Composite	
							CERI/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	B									
2		24	7	24	Y									
3		24	7	24	Y									
4		24	7	24	Y									
5		24	7	24	Y									
6		24	7	24	Y									
7		24	7	24	B									
8		24	7	24	B									
9		24	7	24	B									
10		24	7	24	B									
11		24	7	24	Y									
12		24	7	24	Y									
13		24	7	24	Y									
14		24	7	24	B									
15		24	7	24	B									
16		24	7	24	Y									
17		24	7	24	Y									
18		24	7	24	Y									
19		24	7	24	Y									
20		24	7	24	Y									
21		24	7	24	B									
22		24	7	24	B									
23		24	7	24	Y									
24		24	7	24	Y									
25		24	7	24	Y			< 0.5					38	
26		24	7	24	Y									
27		24	7	24	Y									
28		24	7	24	B									
29		24	7	24	B									
30		24	7	24	B			H	H	H	H	H	H	
31		24	7	24	Y									
Monthly Average Limit:														
Monthly Average:								0						38
Daily Maximum:								0						38
Daily Minimum:								0						38

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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: 05-2022 (May 2022)

VERSION: 1.0

STATUS: Submitted

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							
2		24		261	297	16.95			
3		24		465	396	20.83	11.28		
4		24		485	436	24.19			
5		24		552	437	24.89			
6		24		572	429	26.95			
7		24							
8		24							
9		24		236	333	23.82			
10		24		282	309	21.74			
11		24		307	439	23.99			
12		24		325	433	22.36	6.84		
13		24		295	412	22.89			
14		24							
15		24							
16		24		299	360	19.58			
17		24		269	377	21.13	6.97		
18		24		273	446	21.69			
19		24		307	405	21.43			
20		24		301	358	22.32			
21		24							
22		24							
23		24		233	329	22.23			
24		24		327	301	17.88	6.69		
25		24		333	476	15.74			
26		24		348	378	21.69			
27		24		357	365	23.82			
28		24							
29		24							
30		24		H	H	H	H		
31		24		282	274	20.53	8.68	98.152335	97.878449
Monthly Average Limit:									
Monthly Average:				338.52381	380.47619	21.745238	8.092	98.152335	97.878449
Daily Maximum:				572	476	26.95	11.28	98.152335	97.878449
Daily Minimum:				233	274	15.74	6.69	98.152335	97.878449

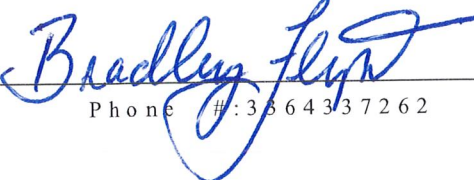
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FACILITY NAME: T.Z. Osborne WWTP
OWNER NAME: City of Greensboro
GRADE: WW-4
eDMR PERIOD: 05-2022 (May 2022)
COMPLIANCE STATUS: Non-Compliant

PERMIT VERSION: 4.0
CLASS: WW-4
ORC: Bradley Todd Flynt
ORC HAS CHANGED: No
VERSION: 1.0
CONTACT PHONE #: 4337262

PERMIT STATUS: Expired
COUNTY: Guilford
ORC CERT NUMBER: 27171
STATUS: Submitted
SUBMISSION DATE: 06/28/2022

Electronically Certified by Bradley Todd Flynt on 2022-06-28 10:44:34.553
ORC/Certifier Signature: Bradley Todd Flynt

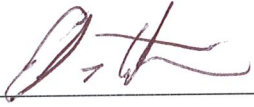

Phone #: 336 433 7262
Date 6-29-22

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 2022-06-28 10:54:44.346

Permittee/Submitter Signature: ***Elijah Lamont Williams


Phone #: 336-373-4632
Date 6/29/2022

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-CBOD: Dilution Water depleted >0.20 mg/l on 5/6; Duplicate RPD >30% on 5/5. Total Phosphorus: Duplicate RPD >20% on 5/13.

Comments -The TZO facility recorded 5 violations in May 2022 (CBOD: 1 weekly average, 1 monthly average; Ammonia: 2 weekly average, 1 monthly average) as a result of a biological process upset that occurred on May 3. During the plant upset, the ability to treat biologically was lost, causing increases in the release of ammonia, phosphorus, CBOD, total suspended solids, and fecal coliform in the TZO effluent. NCDEQ Winston-Salem Regional office staff were notified and were kept updated throughout the plant upset.

The TZO plant was re-seeded from hauled activated sludge from domestic package plants (11,500 gallons), and enzymes and nitrifying bacteria that were purchased from Momar.

Samples from the plant were sent for rush commercial laboratory analyses including metals, volatile and semi-volatile organic analyses. No unusual results were reported. All SIUs were notified of the plant upset.

One SIU notified the City of an accidental discharge of a small volume of an anti-microbial raw material that occurred on Monday, May 2 during tanker unloading, with potential to cause impacts on activated sludge. City Laboratory/Industrial Waste Staff evaluation found that the time line corresponded to calculated flow times from the SIU to the TZO Plant. Follow-up activities include testing to confirm the toxicity potential of the raw material on the TZO activated sludge are still in progress.

The TZO facility returned to compliance for CBOD the next week and returned to compliance for ammonia by the week of May 15th.