

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: 04-2024 (April 2024)

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	2 X week	2 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	FCOLIBR	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		33.75	20.9	7.5	< 14	< 0.1	5.5	247	8.55		
2		24	7	24	Y		38.53	20.9	7.5	< 14	< 0.1	5.6	7.5	8.55		
3		24	7	24	Y		34.5	21.3	7.4	< 14	< 0.1	3.94	28.8	9.09	3.26	
4		24	7	24	Y		34.81	20.4	7.6	< 14	< 0.1	4.33	15.5	8.7		
5		24	7	24	B		35.13	19.1	7.6	< 14	< 0.1	4.26	14.6	8.66		
6		24	7	24	B		33.17									
7		24	7	24	B		32.2									
8		24	7	24	B		32.88	20.1	7.6	< 14	< 0.1	5.13	13	8.25		
9		24	7	24	Y		35.09	20.7	7.5	< 14	< 0.1	4.94	7.5	8.31	3.98	
10		24	7	24	Y		35.72	20.5	7.6	< 14	< 0.1	6.27	3	8.4		
11		24	7	24	Y		35.41	21.1	7.6	< 14	< 0.1	4.12	16	8.49		
12		24	7	24	Y		35.62	21.1	7.6	< 14	< 0.1	4.94	2	8.07		
13		24	7	24	B		34.1									
14		24	7	24	B		31.83									
15		24	7	24	Y		33.35	22.3	7.6	< 14	< 0.1	6.67	32.9	7.88		
16		24	7	24	Y		33.5	22.3	7.5	< 14	< 0.1	4.69	12.1	7.97		
17		24	7	24	Y		34.25	22.6	7.5	< 14	< 0.1	5.4	34.5	8.05	2.79	
18		24	7	24	Y		32.88	22.3	7.5	< 14	< 0.1	5.57	6.2	7.92		
19		24	7	24	Y		32.87	22.5	7.5	< 14	< 0.1	7.6	2	7.87		
20		24	7	24	B		35.35									
21		24	7	24	B		33.64									
22		24	7	24	Y		33.84	22	7.4	< 14	0.942	5.73	1	7.93		
23		24	7	24	Y		33.32	21.5	7.4	< 14	0.87	5.27	4.1	8.58		
24		24	7	24	Y		33.71	22.1	7.5	< 14	0.923	5.87	4.1	7.98	4.09	
25		24	7	24	Y		32.82	22	7.5	< 14	0.134	6.87	24.3	8.11		
26		24	7	24	Y		33.22	22.7	7.5	< 14	< 0.1	4.67	24.6	7.87		
27		24	7	24	B		32.15									
28		24	7	24	B		32.61									
29		24	7	24	Y		32.57	23.1	7.6	< 14	< 0.1	6.13	5.1	8.09		
30		24	7	24	Y		32.64	23.1	7.5	< 14	< 0.1	5.63	2	7.97		
Monthly Average Limit:							56				2	30	200			
Monthly Average:							33.848667	21.572727		0	0.130409	5.415	9.288733	8.245	3.53	
Daily Maximum:							38.53	23.1	7.6	0	0.942	7.6	247	9.09	4.09	
Daily Minimum:							31.83	19.1	7.4	0	0	3.94	1	7.87	2.79	

\*\*\* 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****	QM600	QY600	CO665	QM665	QY665	80882	01042	06639	00625	TGP3B	01147	
							Monthly	Annually	Weekly	Monthly	Annually	5 X week	Quarterly	Weekly	Weekly	Quarterly	Monthly	
							Calculated	Calculated	Composite	Calculated	Calculated	Composite	Composite	Composite	Composite	Composite	Composite	
							TOTAL N -	TOTAL N -	TOTAL P -	Total P - Qty	Total P - Qty	CBOD 20C	COPPER	NO2&NO3	TOT KJEL	CER17DFF	Se-TOTAL	
	2400 clock	Hrs	2400 clock	Hrs	Y/B/N		lb/mon	lbs/yr	mg/l	lb/mon	lbs/yr	mg/l	ug/l	mg/l	mg/l	pass/fail	ug/l	
1		24	7	24	Y							2.19						
2		24	7	24	Y				0.372			<2						
3		24	7	24	Y							<2		0.61	2.65			
4		24	7	24	Y							<2						
5		24	7	24	B							<2						
6		24	7	24	B													
7		24	7	24	B													
8		24	7	24	B							2.07						
9		24	7	24	Y				0.236			<2	2.91	0.24	3.74	0	<5	
10		24	7	24	Y							<2						
11		24	7	24	Y							<2						
12		24	7	24	Y							<2						
13		24	7	24	B													
14		24	7	24	B													
15		24	7	24	Y							2.25						
16		24	7	24	Y				0.406			<2						
17		24	7	24	Y							<2		0.38	2.41			
18		24	7	24	Y							2.55						
19		24	7	24	Y							2.18						
20		24	7	24	B													
21		24	7	24	B													
22		24	7	24	Y							3.89						
23		24	7	24	Y				1.08			<2						
24		24	7	24	Y							<2		0.89	3.2			
25		24	7	24	Y							2.13						
26		24	7	24	Y							2.04						
27		24	7	24	B													
28		24	7	24	B													
29		24	7	24	Y							3.41						
30		24	7	24	Y		29896.5231		0.236	3981		<2						
Monthly Average Limit:												4						5.1
Monthly Average:							29896.5231		0.47	3981		1,032,273	2.91	0.53	3	0		0
Daily Maximum:							29896.5231		1.08	3981		3.89	2.91	0.89	3.74	0		0
Daily Minimum:							29896.5231		0.236	3981		0	2.91	0.24	2.41	0		0

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Date	Composite Sample Time 2400 clock	Total Composite Time Hrs	Operator Arrival Time 2400 clock	Operator Time On Site Hrs	ORC On Site**	No Reporting Reason****	01092	02388	01097	01002	01012	01027	01034	01037	00720	00900	01051						
							Quarterly																
							Composite	Grab	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Grab	Composite	Composite					
							ZINC	14DIOXAN	ANTIMONY	As-TOTAL	BERYLIUM	CADMIUM	Cr-TOTAL	COBALT	CN-TOT	TOT HARD	LEAD						
							ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	mg/l	ug/l						
1		24	7	24	Y																		
2		24	7	24	Y			8.62															
3		24	7	24	Y																		
4		24	7	24	Y																		
5		24	7	24	B																		
6		24	7	24	B																		
7		24	7	24	B																		
8		24	7	24	B																		
9		24	7	24	Y		26.2	6.81	<0.5	<2	<0.5	<0.5	<5	<2	<20	100	<2						
10		24	7	24	Y																		
11		24	7	24	Y																		
12		24	7	24	Y																		
13		24	7	24	B																		
14		24	7	24	B																		
15		24	7	24	Y																		
16		24	7	24	Y			2.46															
17		24	7	24	Y																		
18		24	7	24	Y																		
19		24	7	24	Y																		
20		24	7	24	B																		
21		24	7	24	B																		
22		24	7	24	Y																		
23		24	7	24	Y			3.75															
24		24	7	24	Y																		
25		24	7	24	Y																		
26		24	7	24	Y																		
27		24	7	24	B																		
28		24	7	24	B																		
29		24	7	24	Y																		
30		24	7	24	Y			4.2															
Monthly Average Limit:																							
Monthly Average:							26.2	5.168	0	0	0	0	0	0	0	0	100	0					
Daily Maximum:							26.2	8.62	0	0	0	0	0	0	0	0	100	0					
Daily Minimum:							26.2	2.46	0	0	0	0	0	0	0	0	100	0					

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

Date	Composite Sample Time		Operator Arrival Time		Operator Time On Site	ORC On Site**	No Reporting Reason****	COMER	01067	01077	01059	01102	01152	01087	
	2400 clock	Hrs	2400 clock	Hrs				Y/B/N	Grab	Composite	Composite	Composite	Composite	Composite	Composite
	MERCURY - Conc	NICKEL	SILVER	THALLIUM				TIN	TITANIUM	VANADIUM					
	2400 clock	Hrs	2400 clock	Hrs	Y/B/N		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	Y										
5		24	7	24	B										
6		24	7	24	B										
7		24	7	24	B										
8		24	7	24	B										
9		24	7	24	Y			10.5	< 1	< 0.5	< 25	42	< 5		
10		24	7	24	Y										
11		24	7	24	Y										
12		24	7	24	Y										
13		24	7	24	B										
14		24	7	24	B										
15		24	7	24	Y										
16		24	7	24	Y										
17		24	7	24	Y										
18		24	7	24	Y										
19		24	7	24	Y										
20		24	7	24	B										
21		24	7	24	B										
22		24	7	24	Y										
23		24	7	24	Y										
24		24	7	24	Y										
25		24	7	24	Y										
26		24	7	24	Y										
27		24	7	24	B										
28		24	7	24	B										
29		24	7	24	Y										
30		24	7	24	Y		0.0031								
Monthly Average Limit:															
Monthly Average:								0.0031	10.5	0	0	0	42	0	
Daily Maximum:								0.0031	10.5	0	0	0	42	0	
Daily Minimum:								0.0031	10.5	0	0	0	42	0	

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ORC HAS CHANGED: No

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

Date	Composite Sample Time 2400	Total Composite Time Hrs	No Reporting Reason****	CO530	8082	CO610	CO665	80091	81011
				2 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		242	336	20.6			
2		24		364	302	19.8	8.88		
3		24		301	595	21.3			
4		24		288	359	20.1			
5		24		286	430	22.7			
6		24							
7		24							
8		24		262	264	20.1			
9		24		215	387	21.7	6.57		
10		24		238	396	25.5			
11		24		318	362	27			
12		24		294	414	27.1			
13		24							
14		24							
15		24		253	297	22.4			
16		24		362	340	27.4	8.48		
17		24		404	324	26.5			
18		24		450	507	26.4			
19		24		397	404	28.9			
20		24							
21		24							
22		24		257	338	20.8			
23		24		346	322	24.3	11.41		
24		24		378	455	24.5			
25		24		331	379	25.2			
26		24		293	545	25.1			
27		24							
28		24							
29		24		270	266	21.7			
30		24		317	302	19.8	13.39	99.73	98.26
Monthly Average Limit:									
Monthly Average:				312.090909	378.363636	23.586364	9.746	99.73	98.26
Daily Maximum:				450	595	28.9	13.39	99.73	98.26
Daily Minimum:				215	264	19.8	6.57	99.73	98.26

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COMPLIANCE STATUS: Compliant

CONTACT PHONE #: 3364337262

SUBMISSION DATE: 05/29/2024

Electronically Certified by Bradley Todd Flynt on 2024-05-28 16:06:27.032

5/30/24

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 II.E.6 of the NPDES permit.

Electronically Signed by Elijah Lamont Williams on 2024-05-29 09:25:16.784

5/30/2024

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 4/16-18; Blank depleted >0.20 mg/l on 4/2-4; Ammonia-Nitrogen: Preservation time was greater than 15 minutes for the TZO influent on 4/23 due to time between sample collection and delivery to the laboratory. Bioassay passed at 100%.





# Effluent Aquatic Toxicity Report Form / Phase II Chronic *Ceriodaphnia*

Facility: Osborne NPDES: # NC00 47384 Pipe #: \_\_\_\_\_ County: Guilford

Laboratory Performing Test: Meritech, Inc.

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

x Bradley Flynn x M. Reed  
 Signature of O.R.C. / Email Address/Phone Number      Signature of Laboratory Supervisor

Sample Information	Sample 1	Sample 2	Control	
Collection Start Date	4/8/24	4/10/24		
Grab				
Composite (Duration)	23.7	23.4		
Hardness (mg/l)			86	88
Spec. Cond. (µmhos/cm)	967	942	298	302
Chlorine (mg/l)	<0.1	<0.1		
Sample temp. at receipt	1.7 °C	2.8 °C		

Test Information *	Start Date			End Date			Start Time		End Time	
	Start	Renew 1	Renew 2	Start	Renew 1	Renew 2	Start	Renew 1	Renew 2	
	4/10/24			4/17/24			11:36 AM			10:12 AM
Treatment	100 %	100 %	100 %	Control	Control	Control				
pH Initial	7.85	7.89	7.81	8.16	8.31	8.15				
pH Final	8.19	8.27	8.27	7.92	8.08	8.07				
D.O. Initial	8.42	8.25	8.31	7.90	8.03	7.98				
D.O. Final	7.53	7.77	7.54	7.50	7.70	7.61				
Temp. Initial	24.2	24.9	24.8	24.5	24.3	24.2				
Temp. Final	24.7	24.5	24.6	24.3	24.5	24.9				

	Organism #	Organism #												Mean	
		1	2	3	4	5	6	7	8	9	10	11	12		
Control	#Young	15	19	23	23	21	10	21	24	21	17				19.4
	Adult (L)ive (D)ead	L	L	L	L	L	L	L	L	L	L				
Effluent% 22.5	#Young	26	23	24	22	17	26	24	27	25	21				23.5
	Adult (L)ive (D)ead	L	L	L	L	L	L	L	L	L	L				-21.1
Effluent% 45	#Young	21	25	25	22	16	25	20	25	19	20				21.8
	Adult (L)ive (D)ead	L	L	L	L	L	L	L	L	L	L				-12.4
Effluent% 75	#Young	22	22	26	27	22	27	23	27	20	24				24.0
	Adult (L)ive (D)ead	L	L	L	L	L	L	L	L	L	L				-23.7
Effluent% 90	#Young	21	26	24	23	20	24	28	24	24	22				23.6
	Adult (L)ive (D)ead	L	L	L	L	L	L	L	L	L	L				-21.6
Effluent% 100	#Young	29	24	22	22	22	22	26	18	27	24				23.6
	Adult (L)ive (D)ead	L	L	L	L	L	L	L	L	L	L				-21.6

Chronic Test Results	
Final Control Mortality %	0
% Control 3rd brood	90
Control Repro CV	22.3
48 Hour Mortality	
Control	IWC
0 of 10	0 of 10
Significant? Y	(N)
Final Mortality Significant @	% or (No Conc.)

Reproduction Analysis:		
Repro. LOEC=	>100 % ; NOEC= 100 %	
Method:	Dunnnett's Test	
Normal Distrib? YES	Method: Kolmogorov	
Statistic: 0.6876	Critical: 1.035	
Equal Variances? YES	Method: Bartlett	
Statistic: 4.1707	Critical: 15.09	
Non-Parametric Analysis (if applicable):		
Method:		
Effluent %	Rank Sum	Critical Sum
_____	_____	_____
_____	_____	_____
_____	_____	_____

**Overall Analysis:**  
 Result = PASS/FAIL or  
 Test LOEC= >100 %; NOEC= 100 %  
 Chronic Value= >100 %

**MAIL TO:**

ATT: Water Sciences Section  
 Aquatic Toxicology Branch  
 Division of Water Resources  
 1621 Mail Service Center  
 Raleigh, NC 27699-1621

\* Should use highest test concentration or highest concentration with D.O. >5.0 mg/l  
 † Reduction from Control Reproduction Mean



# MERITECH, INC.

ENVIRONMENTAL LABORATORIES  
A Division of Water Technology and Controls, Inc.

## Multi-dilutional *Ceriodaphnia dubia* Chronic Definitive Test Data Sheet (Lab # 027)

### Test Effluent Information:

Dilution Water: Synthetic

Client: Osborne

NPDES #: NC0047384

Batch #	Transfer Day	Hardness (mg/L CaCO <sub>3</sub> )	Conductivity (umhos/cm)
20	0	86	298
21	2	↓	↓
21	5	88	302

	1st Sample	2nd Sample
Collection Start Date	4-8-24	4-10-24
Sample Type / Duration	C/23.7	C/23.4
Conductivity (umhos/cm)	967	942
Residual Chlorine (mg/l)	49.1	20.1
Temperature (°C)	1.7	2.8
100% pH	7.85	7.89

Sample D.O. Adjustment:		
Stirred	Aerated	<u>None</u>

Neonates:	
Tray #:	<u>5</u>
Transfer Date/Time:	<u>4-9-24 11:03 AM</u>
Born Date/Time:	<u>↓ 12:00 PM - 5:30 PM</u>
Age at Start of Test:	<u>23.6</u> hours

Incubator #: 3

Temp. of Stock: 24.6 °C

Randomization:  Yes  No

### Test Start, Renewal, and End Dates / Times:

Start Date: 4-10-24 Time: 11:36 AM

1st Renewal Date: 4-12-24 Time: 1:45 PM

2nd Renewal Date: 4-15-24 Time: 11:53 AM

End Date: 4-17-24 Time: 10:12 AM

### Test Transferred by:

Start: MR

Day 2: MR

Day 5: MR

Terminated: MR

### Test Fed By:

Start: LV

Day 1: MR

Day 2: LV

Day 3: TS

Day 4: MR

Day 5: LV

Day 6: MR

### Chemical and Physical Determinations:

		Test Start		1st Renewal		2nd Renewal	
		Start	End	Start	End	Start	End
pH	Control	8.16	7.92	8.31	8.08	8.15	8.07
	High Conc.	7.85	8.19	7.89	8.27	7.81	8.27
D.O.	Control	7.90	7.50	8.03	7.70	7.88	7.61
	High Conc.	8.42	7.53	8.25	7.77	8.31	7.94
Temp.	Control	24.5	24.3	24.3	24.5	24.2	24.9
	High Conc.	24.2	24.7	24.9	24.5	24.8	24.6