



# Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

info@environmentalchemists.com

City of Boiling Spring Lakes  
9 East Boiling Spring Road  
Boiling Spring Lakes NC 28461  
Attention:

Date of Report: Jul 11, 2025  
Manteo Report #:  
Report #: 2025-14171  
Customer ID: 08100287  
Project ID: Lake Sample

Lab ID	Sample ID:	Collect Date/Time	Matrix	Sampled by
25-37420	Site: Spring Lake	7/7/2025 9:55 AM	Water	Mike Miracle
Test	Method	Results	Date Analyzed	
Enterococci	Enterolert IDEXX	41 MPN/100ml	07/07/2025	
Fecal Coliform	SM 9222 D-2015 MF	200 Colonies/100mL	07/07/2025	
E. Coli	SM 9223B-MW	144 MPN/100ml	07/07/2025	
Total Coliform	SM 9223B-MW	2420 MPN/100ml	07/07/2025	

Lab ID	Sample ID:	Collect Date/Time	Matrix	Sampled by
25-37421	Site: Tate Lake	7/7/2025 10:11 AM	Water	Mike Miracle
Test	Method	Results	Date Analyzed	
Enterococci	Enterolert IDEXX	1 MPN/100ml	07/07/2025	
Fecal Coliform	SM 9222 D-2015 MF	37 Colonies/100mL	07/07/2025	
E. Coli	SM 9223B-MW	38 MPN/100ml	07/07/2025	
Total Coliform	SM 9223B-MW	>2420 MPN/100ml	07/07/2025	

Lab ID	Sample ID:	Collect Date/Time	Matrix	Sampled by
25-37422	Site: Seminole Lake	7/7/2025 10:19 AM	Water	Mike Miracle
Test	Method	Results	Date Analyzed	
Enterococci	Enterolert IDEXX	18 MPN/100ml	07/07/2025	
Fecal Coliform	SM 9222 D-2015 MF	240 Colonies/100mL	07/07/2025	
E. Coli	SM 9223B-MW	122 MPN/100ml	07/07/2025	
Total Coliform	SM 9223B-MW	>2420 MPN/100ml	07/07/2025	

Lab ID	Sample ID:	Collect Date/Time	Matrix	Sampled by
25-37423	Site: Mirror Lake	7/7/2025 10:25 AM	Water	Mike Miracle
Test	Method	Results	Date Analyzed	
Enterococci	Enterolert IDEXX	4 MPN/100ml	07/07/2025	
Fecal Coliform	SM 9222 D-2015 MF	91 Colonies/100mL	07/07/2025	
E. Coli	SM 9223B-MW	69 MPN/100ml	07/07/2025	
Total Coliform	SM 9223B-MW	>2420 MPN/100ml	07/07/2025	

Comment:

Reviewed by:

*Marlene Rojas*

## Sample Receipt Checklist

Client City of Boiling Spring Date: 7/7/25 Report Number: 2025 - 14171

Receipt of sample:		ECHM Pickup <input checked="" type="checkbox"/>	Client Delivery <input type="checkbox"/>	UPS <input type="checkbox"/>	FedEx <input type="checkbox"/>	Other <input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	1. Were custody seals present on the cooler?			
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	2. If custody seals were present, were they intact/unbroken?			
Original temperature upon receipt <u>4.6</u> °C			Corrected temperature upon receipt _____ °C			
How temperature taken: <input type="checkbox"/> Temperature Blank			<input checked="" type="checkbox"/> Against Bottles			
IR Gun ID: Thomas Traceable S/N: 250289912			IR Gun Correction Factor °C: 0.0			
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	3. If temperature of cooler exceeded 6°C, was Project Mgr./QA notified?				
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	4. Were proper custody procedures (relinquished/received) followed?				
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	5. Were sample ID's listed on the COC?				
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	6. Were samples ID's listed on sample containers?				
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	7. Were collection date and time listed on the COC?				
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	8. Were tests to be performed listed on the COC?				
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	9. Did samples arrive in proper containers for each test?				
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	10. Did samples arrive in good condition for each test?				
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	11. Was adequate sample volume available?				
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	12. Were samples received within proper holding time for requested tests?				
<input type="checkbox"/> YES	<input type="checkbox"/> NO	13. Were acid preserved samples received at a pH of <2? *				
<input type="checkbox"/> YES	<input type="checkbox"/> NO	14. Were cyanide samples received at a pH >12?				
<input type="checkbox"/> YES	<input type="checkbox"/> NO	15. Were sulfide samples received at a pH >9?				
<input type="checkbox"/> YES	<input type="checkbox"/> NO	16. Were NH3/TKN/Phenol received at a chlorine residual of <0.5 m/L? **				
<input type="checkbox"/> YES	<input type="checkbox"/> NO	17. Were Sulfide/Cyanide received at a chlorine residual of <0.5 m/L?				
<input type="checkbox"/> YES	<input type="checkbox"/> NO	18. Were orthophosphate samples filtered in the field within 15 minutes?				

\* TOC/Volatiles are pH checked at time of analysis and recorded on the benchsheet.

\*\* Bacteria samples are checked for Chlorine at time of analysis and recorded on the benchsheet.

**Sample Preservation:** (Must be completed for any sample(s) incorrectly preserved or with headspace)  
 Sample(s) \_\_\_\_\_ were received incorrectly preserved and were adjusted accordingly  
 by adding (circle one): H<sub>2</sub>SO<sub>4</sub> HNO<sub>3</sub> HCl NaOH  
 Time of preservation: \_\_\_\_\_ If more than one preservative is needed, notate in comments below

Note: Notify customer service immediately for incorrectly preserved samples. Obtain a new sample or

notify the state lab if directed to analyzed by the customer. Who was notified, date and time: \_\_\_\_\_

Volatiles Sample(s) \_\_\_\_\_ were received with headspace

COMMENTS:



**NCDENR: DWQ CERTIFICATION # 94 NCDHHS: DLS CERTIFICATION # 37729**

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## COLLECTION AND CHAIN OF CUSTODY

Sampled By: Mike Muesel

SAMPLE TYPE: I = Influent, E = Effluent, W = Well, ST = Stream, SO = Soil, SL = Sludge, Other:

**NOTICE - DECHLORINATION:** Samples for Ammonia, TKN, Cyanide, Phenol and Bacteria must be dechlorinated (0.5 ppm or less) in the field at the time of collection. See reverse for instructions

Temperature when Received °C: 4.16 Accepted: ✓ Rejected: \_\_\_\_\_ Resample Requested: \_\_\_\_\_

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