

**North Carolina**  
**Department of Health and Human Services**  
**Laboratory Certification**



*in accordance with the provisions of regulations 10A NCAC 42D 0.200  
certification for the analysis of drinking water has been granted to*

**Enthalpy Analytical**  
Laboratory Number 51714

*For the following analyte group(s)*

Microbiology, Inorganic and Organic Chemistry

*Refer to most-recent status sheet for analytes and methods*

July 1, 2024

*Issue date*

July 31, 2025

*Expiration date*

*Elizabeth Tilson, MD, MPH*  
*State Health Director*

*Scott M. Shone, PhD, HCLD (ABB)*  
*Director, State Laboratory*

Michele Sartin

*Drinking Water Certification*

*This laboratory has met the minimum requirements for the certification to analyze drinking water.  
This certificate does not guarantee accurate results.*

*North Carolina Department of Health and Human Services  
State Laboratory of Public Health*

ENTHALPY ANALYTICAL

*Lab Number* 51714

*Effective Date:*

12/6/24

This secondary certification is contingent on maintaining certification by a Primary Accrediting Body.

*North Carolina Drinking Water Certification Status Sheet :*

| <b>Analyte Code (UR = Unregulated)</b> | <b>Method Code</b>           | <b>Method</b> |                             |
|--|------------------------------|---------------|-----------------------------|
| <b>Coliforms</b>                       |                              |               |                             |
| 3100                                   | Coliform                     | COLISURE      | Colisure Reagent            |
| 3100                                   | Coliform                     | 9223B         | Colilert/Colilert18         |
| 3014                                   | E. coli                      | COLISURE      | Colisure Reagent            |
| 3014                                   | E. coli                      | 9223B-MW      | Colilert Multiple well (UR) |
| 3014                                   | E. coli                      | 9223B         | Colilert/Colilert18         |
| 3002                                   | Enterococci                  | ENTEROLERT    | Idexx Enterolert            |
| <b>HPC</b>                             |                              |               |                             |
| 3001                                   | Heterotrophic Bacteria (HPC) | SIMPLATE      | Idexx Simplate              |

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**Metals**

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|      |               |       |                               |
|------|---------------|-------|-------------------------------|
| 1002 | Aluminum (UR) | 200.7 | Inductively Coupled Plasma    |
| 1074 | Antimony      | 200.8 | Inductively Coupled Plasma/MS |
| 1005 | Arsenic       | 200.8 | Inductively Coupled Plasma/MS |
| 1010 | Barium        | 200.8 | Inductively Coupled Plasma/MS |
| 1010 | Barium        | 200.7 | Inductively Coupled Plasma    |
| 1075 | Beryllium     | 200.8 | Inductively Coupled Plasma/MS |
| 1015 | Cadmium       | 200.7 | Inductively Coupled Plasma    |
| 1015 | Cadmium       | 200.8 | Inductively Coupled Plasma/MS |
| 1016 | Calcium (UR)  | 200.7 | Inductively Coupled Plasma    |
| 1020 | Chromium      | 200.7 | Inductively Coupled Plasma    |
| 1020 | Chromium      | 200.8 | Inductively Coupled Plasma/MS |
| 1022 | Copper        | 200.7 | Inductively Coupled Plasma    |
| 1028 | Iron          | 200.7 | Inductively Coupled Plasma    |
| 1030 | Lead          | 200.8 | Inductively Coupled Plasma/MS |
| 1031 | Magnesium     | 200.7 | Inductively Coupled Plasma    |
| 1032 | Manganese     | 200.8 | Inductively Coupled Plasma/MS |
| 1032 | Manganese     | 200.7 | Inductively Coupled Plasma    |
| 1035 | Mercury       | 245.1 | Manual Cold Vapor             |
| 1036 | Nickel        | 200.7 | Inductively Coupled Plasma    |
| 1036 | Nickel        | 200.8 | Inductively Coupled Plasma/MS |
| 1045 | Selenium      | 200.8 | Inductively Coupled Plasma/MS |
| 1052 | Sodium        | 200.7 | Inductively Coupled Plasma    |
| 1085 | Thallium      | 200.8 | Inductively Coupled Plasma/MS |
| 1095 | Zinc (UR)     | 200.7 | Inductively Coupled Plasma    |

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**General Chemistry**

|      |  |                        |                              |
|------|--|------------------------|------------------------------|
| 1927 | Alkalinity                               | 2320B                  | Titrimetric                  |
| 1919 | Calcium Hardness (as CaCO <sub>3</sub> ) | 2340B                  | Hardness by calculation      |
| 1017 | Chloride (UR)                            | 300.0                  | Ion Chromatography           |
| 1064 | Conductivity (UR)                        | 2510B                  | Conductance @ 25 C           |
| 1024 | Cyanide                                  | 4500CN-E               | Spectrophotometric, manual   |
| 1025 | Fluoride                                 | 300.0                  | Ion Chromatography           |
| 1915 | Hardness, Total (CaCO <sub>3</sub> )     | 2340B                  | Hardness by calculation      |
| 1040 | Nitrate                                  | 300.0                  | Ion Chromatography           |
| 1040 | Nitrate                                  | 4500NO <sub>3</sub> -F | Cadmium reduction, automated |
| 1041 | Nitrite                                  | 300.0                  | Ion Chromatography           |
| 1041 | Nitrite                                  | 4500NO <sub>2</sub> -B | Spectrophotometric           |
| 1044 | Orthophosphate (UR)                      | 4500P-E                | Colorimetric, manual         |
| 1925 | pH Units (UR)                            | 4500H-B                | Electrometric                |
| 1055 | Sulfate                                  | 300.0                  | Ion Chromatography           |
| 1930 | TDS-Total Dissolved Solids               | 2540C                  | Gravimetric                  |
| 2920 | Total Organic Carbon (TOC)               | 5310C                  | Persulfate-UV Oxidation      |
| 0100 | Turbidity (UR)                           | 2130B                  | Nephelometric                |
| 2922 | UV Absorbance @ 254 nm                   | 5910B                  | Ultraviolet Absorption       |

**THMs**

|      |                       |       |                       |
|------|-----------------------|-------|-----------------------|
| 2943 | Bromodichloromethane  | 524.2 | GC/MS - P&T, Cap col. |
| 2942 | Bromoform             | 524.2 | GC/MS - P&T, Cap col. |
| 2944 | Chlorodibromomethane  | 524.2 | GC/MS - P&T, Cap col. |
| 2941 | Chloroform            | 524.2 | GC/MS - P&T, Cap col. |
| 2950 | Total Trihalomethanes | 524.2 | GC/MS - P&T, Cap col. |



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**VOCs**

|      |                            |       |                       |
|------|----------------------------|-------|-----------------------|
| 2981 | 1,1,1-Trichloroethane      | 524.2 | GC/MS - P&T, Cap col. |
| 2985 | 1,1,2-Trichloroethane      | 524.2 | GC/MS - P&T, Cap col. |
| 2977 | 1,1-Dichloroethylene       | 524.2 | GC/MS - P&T, Cap col. |
| 2378 | 1,2,4-Trichlorobenzene     | 524.2 | GC/MS - P&T, Cap col. |
| 2968 | 1,2-Dichlorobenzene        | 524.2 | GC/MS - P&T, Cap col. |
| 2980 | 1,2-Dichloroethane         | 524.2 | GC/MS - P&T, Cap col. |
| 2983 | 1,2-Dichloropropane        | 524.2 | GC/MS - P&T, Cap col. |
| 2969 | 1,4-Dichlorobenzene        | 524.2 | GC/MS - P&T, Cap col. |
| 2990 | Benzene                    | 524.2 | GC/MS - P&T, Cap col. |
| 2982 | Carbon Tetrachloride       | 524.2 | GC/MS - P&T, Cap col. |
| 2989 | Chlorobenzene              | 524.2 | GC/MS - P&T, Cap col. |
| 2380 | cis-1,2-Dichloroethylene   | 524.2 | GC/MS - P&T, Cap col. |
| 2964 | Dichloromethane            | 524.2 | GC/MS - P&T, Cap col. |
| 2992 | Ethylbenzene               | 524.2 | GC/MS - P&T, Cap col. |
| 2996 | Styrene                    | 524.2 | GC/MS - P&T, Cap col. |
| 2987 | Tetrachloroethylene        | 524.2 | GC/MS - P&T, Cap col. |
| 2991 | Toluene                    | 524.2 | GC/MS - P&T, Cap col. |
| 2955 | Total Xylenes              | 524.2 | GC/MS - P&T, Cap col. |
| 2979 | trans-1,2-Dichloroethylene | 524.2 | GC/MS - P&T, Cap col. |
| 2984 | Trichloroethylene          | 524.2 | GC/MS - P&T, Cap col. |
| 2976 | Vinyl Chloride             | 524.2 | GC/MS - P&T, Cap col. |

**Haloacetic Acids**

|      |                        |       |                              |
|------|------------------------|-------|------------------------------|
| 2454 | Dibromoacetic acid     | 552.3 | GC - Micro L/L, Cap col, ECD |
| 2451 | Dichloroacetic acid    | 552.3 | GC - Micro L/L, Cap col, ECD |
| 2453 | Monobromoacetic acid   | 552.3 | GC - Micro L/L, Cap col, ECD |
| 2450 | Monochloroacetic acid  | 552.3 | GC - Micro L/L, Cap col, ECD |
| 2456 | Total Haloacetic Acids | 552.3 | GC - Micro L/L, Cap col, ECD |
| 2452 | Trichloroacetic acid   | 552.3 | GC - Micro L/L, Cap col, ECD |

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| <b>Pesticides</b> |                               |       |                              |
|-------------------|-------------------------------|-------|------------------------------|
| 2931              | 1,2-Dibromo-3-Chloropropane   | 504.1 | GC - Micro L/L, Cap col, ECD |
| 2959              | Chlordane                     | 508.1 | GC - L/S, Cap col, ECD       |
| 2005              | Endrin                        | 508.1 | GC - L/S, Cap col, ECD       |
| 2946              | Ethylene dibromide (EDB)      | 504.1 | GC - Micro L/L, Cap col, ECD |
| 2065              | Heptachlor                    | 508.1 | GC - L/S, Cap col, ECD       |
| 2067              | Heptachlor Epoxide            | 508.1 | GC - L/S, Cap col, ECD       |
| 2274              | Hexachlorobenzene             | 525.2 | GC/MS - L/S, Cap col.        |
| 2042              | Hexachlorocyclopentadiene     | 525.2 | GC/MS - L/S, Cap col.        |
| 2010              | Lindane                       | 508.1 | GC - L/S, Cap col, ECD       |
| 2015              | Methoxychlor                  | 508.1 | GC - L/S, Cap col, ECD       |
| 2020              | Toxaphene                     | 508.1 | GC - L/S, Cap col, ECD       |
| <b>Herbicides</b> |                               |       |                              |
| 2110              | 2,4,5-TP (Silvex)             | 515.4 | GC - Micro L/L, Cap col, ECD |
| 2105              | 2,4-D                         | 515.4 | GC - Micro L/L, Cap col, ECD |
| 2051              | Alachlor                      | 525.2 | GC/MS - L/S, Cap col.        |
| 2050              | Atrazine                      | 525.2 | GC/MS - L/S, Cap col.        |
| 2031              | Dalapon                       | 515.4 | GC - Micro L/L, Cap col, ECD |
| 2041              | Dinoseb                       | 515.4 | GC - Micro L/L, Cap col, ECD |
| 2326              | Pentachlorophenol             | 515.4 | GC - Micro L/L, Cap col, ECD |
| 2040              | Picloram                      | 515.4 | GC - Micro L/L, Cap col, ECD |
| 2037              | Simazine                      | 525.2 | GC/MS - L/S, Cap col.        |
| <b>PAHs</b>       |                               |       |                              |
| 2306              | Benzo(a)pyrene                | 525.2 | GC/MS - L/S, Cap col.        |
| 2039              | Di(2-Ethylhexyl) Phthalate    | 525.2 | GC/MS - L/S, Cap col.        |
| 2035              | Di-2(ethylhexyl)adipate       | 525.2 | GC/MS - L/S, Cap col.        |
| <b>PCBs</b>       |                               |       |                              |
| 2383              | Polychlorinated biphenyls PCB | 508.1 | GC - L/S, Cap col, ECD       |