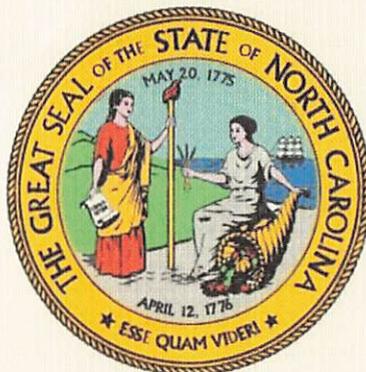


DIVISION OF WATER RESOURCES LABORATORY CERTIFICATION BRANCH

In accordance with the provisions of N.C.G.S. 143-215.3 (a) (1), 143-215.3 (a)(10) and NCAC 2H.0800:



2026

Enthalpy Analytical LLC

Is hereby certified to perform environmental analysis as listed on the Laboratory's Certified Parameter List and report monitoring data to DEQ for compliance with NPDES effluent, surface water, groundwater, soil and pretreatment regulations.

By reference 15A NCAC 2H .0800 is made a part of this certificate.

This certificate does not guarantee validity of data generated, but indicates the methodology, equipment, quality control procedures, records, and proficiency of the laboratory have been examined and found to be acceptable.

This certificate shall be valid until 12/31/2026

Certificate No. 495

EPA Lab ID VA00913

A handwritten signature in black ink, appearing to read "Beth Swanson", is written over a horizontal line.

Beth Swanson

North Carolina Wastewater/Groundwater Laboratory Certification

Certified Parameters Listing

Lab Name: Enthalpy Analytical LLC
 Address: 1941 Reymet Road
 Richmond, VA 23237

Certificate Number: 495
 Effective Date: 1/1/2026
 Expiration Date: 12/31/2026
 Date of Last Amendment: 7/9/2025

The above named laboratory, having duly met the requirements of 15A NCAC 2H.0800, is hereby certified for the measurement of the parameters listed below.

| CERTIFIED PARAMETERS |
|----------------------|
|----------------------|

INORGANICS

ALKALINITY

SM 2320 B-2021 (Aqueous)

BROMIDE

EPA 300.0_Rev. 2.1 (1993) (Aqueous)

SW-846 9056 A (Aqueous)

CHLORIDE

EPA 300.0_Rev. 2.1 (1993) (Aqueous)

SW-846 9056 A (Aqueous)

SW-846 9056 A (Non-Aqueous)

COLIFORM, FECAL

IDEXX Colilert-18® (Aqueous)

CONDUCTIVITY

SM 2510 B-2021 (Aqueous)

CYANIDE

SM 4500-CN⁻ E-2021 (Aqueous)

SW-846 9012 B (Aqueous)

SW-846 9012 B (Non-Aqueous)

FLASH POINT

SW-846 1010 B (D93-80) (Aqueous)

FLUORIDE

EPA 300.0_Rev. 2.1 (1993) (Aqueous)

SW-846 9056 A (Non-Aqueous)

NITROGEN, AMMONIA

EPA 350.1, Rev. 2.0 (1993) (Aqueous)

NITROGEN, NITRATE

EPA 300.0, Rev. 2.1 (1993) (Aqueous)

SM 4500-NO₃⁻ F-2019 (Aqueous)

SW-846 9056 A (Non-Aqueous)

NITROGEN, NITRITE

EPA 300.0, Rev. 2.1 (1993) (Aqueous)

SM 4500-NO₂⁻ B (Aqueous)

SW-846 9056 A (Aqueous)

SW-846 9056 A (Non-Aqueous)

NITROGEN, NO₃ + NO₂

SM 4500-NO₃⁻ F-2019 (Aqueous)

NITROGEN, TOTAL KJELDAHL

EPA 351.2, Rev. 2.0 (1993) (Aqueous)

OIL & GREASE

EPA 1664 Rev. B (Aqueous)

ORGANIC CARBON, TOTAL

SM 5310 C-2014 (Aqueous)

SW-846 9060 A (Aqueous)

OXYGEN DEMAND, BIOCHEMICAL

SM 5210 B-2016 (Aqueous)

OXYGEN DEMAND, CARBONACEOUS BIOCHEMICAL

SM 5210 B-2016 (Aqueous)

OXYGEN DEMAND, CHEMICAL

SM 5220 D-2011 (Aqueous)

PAINT FILTER LIQUIDS

SW-846 9095 B (Aqueous)

SW-846 9095 B (Non-Aqueous)

pH

SW-846 9040 C (Aqueous)

SW-846 9045 D (Non-Aqueous)

PHENOLS, INORGANIC

EPA 420.1 (1978) (Aqueous)

PHOSPHATE, ORTHO

SM 4500-P E-2021 (Aqueous)

PHOSPHORUS, TOTAL (NUTRIENTS)

SM 4500-P E-2021 (Aqueous)

RESIDUE, DISSOLVED 180 C

SM 2540 C-2020 (Aqueous)

RESIDUE, SETTLEABLE

SM 2540 F-2020 (Aqueous)

RESIDUE, SUSPENDED

SM 2540 D-2020 (Aqueous)

RESIDUE, TOTAL

SM 2540 B-2020 (Aqueous)

SM 2540 G-2020 (Non-Aqueous)

North Carolina Wastewater/Groundwater Laboratory Certification

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CERTIFIED PARAMETERS

| | |
|--|-------------------------------------|
| RESIDUE, VOLATILE | SW-846 6010 D (Non-Aqueous) |
| SM 2540 G-2020 (Non-Aqueous) | SW-846 6020 B (Aqueous) |
| SULFATE | SW-846 6020 B (Non-Aqueous) |
| EPA 300.0_Rev. 2.1 (1993) (Aqueous) | BERYLLIUM |
| SW-846 9056 A (Aqueous) | EPA 200.7_Rev. 4.4 (1994) (Aqueous) |
| SW-846 9056 A (Non-Aqueous) | EPA 200.8_Rev. 5.4 (1994) (Aqueous) |
| SULFIDE | SW-846 6010 D (Aqueous) |
| SM 4500-S ²⁻ D-2021 (Aqueous) | SW-846 6010 D (Non-Aqueous) |
| TURBIDITY | SW-846 6020 B (Aqueous) |
| SM 2130 B-2020 (Aqueous) | SW-846 6020 B (Non-Aqueous) |
| METALS | BORON |
| ALUMINUM | EPA 200.7_Rev. 4.4 (1994) (Aqueous) |
| EPA 200.7_Rev. 4.4 (1994) (Aqueous) | SW-846 6010 D (Aqueous) |
| EPA 200.8_Rev. 5.4 (1994) (Aqueous) | SW-846 6010 D (Non-Aqueous) |
| SW-846 6010 D (Aqueous) | CADMIUM |
| SW-846 6010 D (Non-Aqueous) | EPA 200.7_Rev. 4.4 (1994) (Aqueous) |
| SW-846 6020 B (Aqueous) | EPA 200.8_Rev. 5.4 (1994) (Aqueous) |
| ANTIMONY | SW-846 6010 D (Aqueous) |
| EPA 200.7_Rev. 4.4 (1994) (Aqueous) | SW-846 6010 D (Non-Aqueous) |
| EPA 200.8_Rev. 5.4 (1994) (Aqueous) | SW-846 6020 B (Aqueous) |
| SW-846 6010 D (Aqueous) | SW-846 6020 B (Non-Aqueous) |
| SW-846 6010 D (Non-Aqueous) | CALCIUM |
| SW-846 6020 B (Aqueous) | EPA 200.7_Rev. 4.4 (1994) (Aqueous) |
| SW-846 6020 B (Non-Aqueous) | EPA 200.8_Rev. 5.4 (1994) (Aqueous) |
| ARSENIC | SW-846 6010 D (Aqueous) |
| EPA 200.7_Rev. 4.4 (1994) (Aqueous) | SW-846 6010 D (Non-Aqueous) |
| EPA 200.8_Rev. 5.4 (1994) (Aqueous) | SW-846 6020 B (Aqueous) |
| SW-846 6010 D (Aqueous) | CHROMIUM, HEXAVALENT |
| SW-846 6010 D (Non-Aqueous) | EPA 218.6_Rev. 3.3 (1994) (Aqueous) |
| SW-846 6020 B (Aqueous) | SM 3500-Cr B-2020 (Aqueous) |
| SW-846 6020 B (Non-Aqueous) | SW-846 7196 A (Aqueous) |
| BARIUM | SW-846 7196 A (Non-Aqueous) |
| EPA 200.7_Rev. 4.4 (1994) (Aqueous) | SW-846 7199 (Aqueous) |
| EPA 200.8_Rev. 5.4 (1994) (Aqueous) | SW-846 7199 (Non-Aqueous) |
| SW-846 6010 D (Aqueous) | CHROMIUM, TOTAL |

This certification requires maintenance of an acceptable quality assurance program, use of approved methodology, and satisfactory performance on evaluation samples. Laboratories are subject to civil penalties and/or decertification for infractions as set forth in 15A NCAC 2H.0807.

North Carolina Wastewater/Groundwater Laboratory Certification

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| CERTIFIED PARAMETERS |
|----------------------|
|----------------------|

| | |
|--|---|
| EPA 200.7_Rev. 4.4 (1994) (Aqueous) EPA 200.8_Rev. 5.4 (1994) (Aqueous) SW-846 6010 D (Aqueous) SW-846 6010 D (Non-Aqueous) SW-846 6020 B (Aqueous) SW-846 6020 B (Non-Aqueous) COBALT EPA 200.7_Rev. 4.4 (1994) (Aqueous) EPA 200.8_Rev. 5.4 (1994) (Aqueous) SW-846 6010 D (Aqueous) SW-846 6010 D (Non-Aqueous) SW-846 6020 B (Aqueous) SW-846 6020 B (Non-Aqueous) COPPER EPA 200.7_Rev. 4.4 (1994) (Aqueous) EPA 200.8_Rev. 5.4 (1994) (Aqueous) SW-846 6010 D (Aqueous) SW-846 6010 D (Non-Aqueous) SW-846 6020 B (Aqueous) SW-846 6020 B (Non-Aqueous) HARDNESS, TOTAL (METALS) SM 2340 B-2021 (EPA 200.7_Rev. 4.4_1994) (Aqueous) SM 2340 B-2021 (SM 3120B-2020) (Aqueous) IRON EPA 200.7_Rev. 4.4 (1994) (Aqueous) EPA 200.8_Rev. 5.4 (1994) (Aqueous) SW-846 6010 D (Aqueous) SW-846 6010 D (Non-Aqueous) SW-846 6020 B (Aqueous) LEAD EPA 200.7_Rev. 4.4 (1994) (Aqueous) EPA 200.8_Rev. 5.4 (1994) (Aqueous) SW-846 6010 D (Aqueous) SW-846 6010 D (Non-Aqueous) SW-846 6020 B (Aqueous) | SW-846 6020 B (Non-Aqueous) LITHIUM SW-846 6010 D (Aqueous) SW-846 6020 B (Aqueous) MAGNESIUM EPA 200.7_Rev. 4.4 (1994) (Aqueous) EPA 200.8_Rev. 5.4 (1994) (Aqueous) SW-846 6010 D (Aqueous) SW-846 6010 D (Non-Aqueous) SW-846 6020 B (Aqueous) MANGANESE EPA 200.7_Rev. 4.4 (1994) (Aqueous) EPA 200.8_Rev. 5.4 (1994) (Aqueous) SW-846 6010 D (Aqueous) SW-846 6010 D (Non-Aqueous) SW-846 6020 B (Aqueous) SW-846 6020 B (Non-Aqueous) MERCURY EPA 245.1_Rev. 3.0 (1994) (Aqueous) SW-846 6020 B (Aqueous) SW-846 7470 A (Aqueous) SW-846 7471 B (Non-Aqueous) MOLYBDENUM EPA 200.7_Rev. 4.4 (1994) (Aqueous) EPA 200.8_Rev. 5.4 (1994) (Aqueous) SW-846 6010 D (Aqueous) SW-846 6010 D (Non-Aqueous) SW-846 6020 B (Aqueous) SW-846 6020 B (Non-Aqueous) NICKEL EPA 200.7_Rev. 4.4 (1994) (Aqueous) EPA 200.8_Rev. 5.4 (1994) (Aqueous) SW-846 6010 D (Aqueous) SW-846 6010 D (Non-Aqueous) SW-846 6020 B (Aqueous) |
|--|---|

North Carolina Wastewater/Groundwater Laboratory Certification

Certified Parameters Listing

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CERTIFIED PARAMETERS

SW-846 6020 B (Non-Aqueous)

POTASSIUM

EPA 200.7_Rev. 4.4 (1994) (Aqueous)

EPA 200.8_Rev. 5.4 (1994) (Aqueous)

SW-846 6010 D (Aqueous)

SW-846 6010 D (Non-Aqueous)

SW-846 6020 B (Aqueous)

SELENIUM

EPA 200.7_Rev. 4.4 (1994) (Aqueous)

EPA 200.8_Rev. 5.4 (1994) (Aqueous)

SW-846 6010 D (Aqueous)

SW-846 6010 D (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

SILICA (METALS)

EPA 200.7_Rev. 4.4 (1994) (Aqueous)

SW-846 6010 D (Aqueous)

SW-846 6010 D (Non-Aqueous)

SILVER

EPA 200.7_Rev. 4.4 (1994) (Aqueous)

EPA 200.8_Rev. 5.4 (1994) (Aqueous)

SW-846 6010 D (Aqueous)

SW-846 6010 D (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

SODIUM

EPA 200.7_Rev. 4.4 (1994) (Aqueous)

EPA 200.8_Rev. 5.4 (1994) (Aqueous)

SW-846 6010 D (Aqueous)

SW-846 6010 D (Non-Aqueous)

SW-846 6020 B (Aqueous)

STRONTIUM

EPA 200.7_Rev. 4.4 (1994) (Aqueous)

SW-846 6010 D (Aqueous)

SW-846 6010 D (Non-Aqueous)

SW-846 6020 B (Aqueous)

THALLIUM

EPA 200.7_Rev. 4.4 (1994) (Aqueous)

EPA 200.8_Rev. 5.4 (1994) (Aqueous)

SW-846 6010 D (Aqueous)

SW-846 6010 D (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

TIN

EPA 200.7_Rev. 4.4 (1994) (Aqueous)

EPA 200.8_Rev. 5.4 (1994) (Aqueous)

SW-846 6010 D (Aqueous)

SW-846 6010 D (Non-Aqueous)

SW-846 6020 B (Aqueous)

TITANIUM

EPA 200.7_Rev. 4.4 (1994) (Aqueous)

EPA 200.8_Rev. 5.4 (1994) (Aqueous)

SW-846 6010 D (Aqueous)

SW-846 6010 D (Non-Aqueous)

SW-846 6020 B (Aqueous)

VANADIUM

EPA 200.7_Rev. 4.4 (1994) (Aqueous)

EPA 200.8_Rev. 5.4 (1994) (Aqueous)

SW-846 6010 D (Aqueous)

SW-846 6010 D (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

ZINC

EPA 200.7_Rev. 4.4 (1994) (Aqueous)

EPA 200.8_Rev. 5.4 (1994) (Aqueous)

SW-846 6010 D (Aqueous)

SW-846 6010 D (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

ORGANICS

North Carolina Wastewater/Groundwater Laboratory Certification

Certified Parameters Listing

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CERTIFIED PARAMETERS

| | |
|--|---|
| BASE NEUTRAL/ACID, ORGANICS | SW-846 8015 C (Aqueous) |
| EPA 625.1 (Dec 2016) (Aqueous) | SW-846 8015 C (Non-Aqueous) |
| SW-846 8270 E (Aqueous) | VOLATILE PETROLEUM HYDROCARBONS |
| SW-846 8270 E (Non-Aqueous) | MADEP_Rev. 2.1_(Feb 2018) (Aqueous) |
| CHLORINATED ACID HERBICIDES | MADEP_Rev. 2.1_(Feb 2018) (Non-Aqueous) |
| SW-846 8151 A (Aqueous) | |
| SW-846 8151 A (Non-Aqueous) | |
| EDB, DBCP & TCP | |
| SW-846 8011 (Does not include TCP) (Aqueous) | |
| EXTRACTABLE PETROLEUM HYDROCARBONS | |
| MADEP_Rev. 2.1_(December 2019) (Aqueous) | |
| MADEP_Rev. 2.1_(December 2019) (Non-Aqueous) | |
| ORGANIC HALIDES, TOTAL | |
| SW-846 9020 B (Aqueous) | |
| PESTICIDES, ORGANOCHLORINE | |
| EPA 608.3 (Dec 2016) (Aqueous) | |
| SW-846 8081 B (Aqueous) | |
| SW-846 8081 B (Non-Aqueous) | |
| PESTICIDES, ORGANOPHOSPHORUS | |
| SW-846 8141 B (Aqueous) | |
| SW-846 8141 B (Non-Aqueous) | |
| POLYCHLORINATED BIPHENYLS (PCBs) | |
| EPA 608.3 (Dec 2016) (Aqueous) | |
| SW-846 8082 A (Aqueous) | |
| SW-846 8082 A (Non-Aqueous) | |
| SW-846 8082 A (Oil) | |
| PURGEABLE, ORGANICS | |
| EPA 624.1 (Dec 2016) (Aqueous) | |
| SM 6200 B-2020 (Aqueous) | |
| SW-846 8260 D (Aqueous) | |
| SW-846 8260 D (Non-Aqueous) | |
| TPH DIESEL RANGE, ORGANICS | |
| SW-846 8015 C (Aqueous) | |
| SW-846 8015 C (Non-Aqueous) | |
| TPH GASOLINE RANGE, ORGANICS | |

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