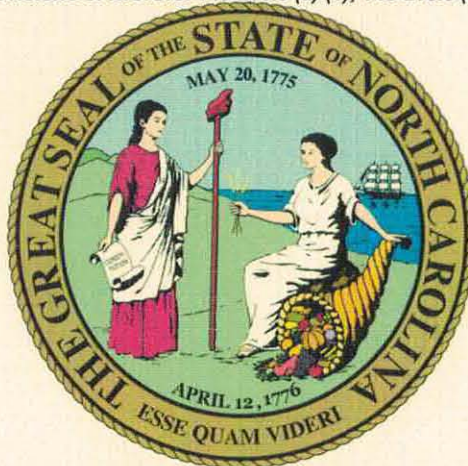


## DIVISION OF WATER RESOURCES LABORATORY CERTIFICATION BRANCH

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



# 2021

### Environmental Conservation Laboratories Inc.

*Is hereby certified to perform environmental analysis as listed on Attachment I and report monitoring data to DEQ for compliance with NPDES effluent, surface water, groundwater, 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* 12/31/2021

Certificate No. 591

A handwritten signature in black ink that reads "Todd Crawford".

Todd Crawford

# North Carolina Wastewater/Groundwater Laboratory Certification

## Certified Parameters Listing

Lab Name: Environmental Conservation Laboratories Inc. - Cary  
Address: 102 Woodwinds Industrial Ct. Ste. A  
Cary, NC 27511-6204

Certificate Number: 591  
Effective Date: 1/1/2021  
Expiration Date: 12/31/2021  
Date of Last Amendment: 6/23/2021

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

#### INORGANIC

##### ALKALINITY

EPA 310.2, Rev. 1974 (Aqueous)

##### BACTERIA - COLIFORM FECAL

IDEXX Colilert @18 (MPN) (Aqueous)

##### BOD

SM 5210 B-2011 (Aqueous)

##### BROMIDE

EPA 300.0, Rev. 2.1, 1993 (Aqueous)

SW-846 9056 A (Aqueous)

##### CBOD

SM 5210 B-2011 (Aqueous)

##### CHLORIDE

SM 4500 Cl<sup>-</sup> E-2011 (Aqueous)

EPA 300.0, Rev. 2.1, 1993 (Aqueous)

SW-846 9056 A (Aqueous)

SW-846 9056 A (Non-Aqueous)

##### COD

SM 5220 D-2011 (Aqueous)

EPA 410.4, Rev. 2.0, 1993 (Aqueous)

##### COLOR, PC

SM 2120 B-2011 (PtCo) (Aqueous)

##### CONDUCTIVITY

EPA 120.1, Rev. 1982 (Aqueous)

SM 2510 B-2011 (Aqueous)

##### CYANIDE

SW-846 9014 (Total) (Colorimetric) (Aqueous)

SW-846 9014 (Total) (Colorimetric) (Non-Aqueous)

SM 4500 CN<sup>-</sup> E-2011 (Total) (Aqueous)

EPA 335.4, Rev. 1.0, 1993 (Total) (Aqueous)

SW-846 9012 B (Total) (Aqueous)

SW-846 9012 B (Total) (Non-Aqueous)

##### FLUORIDE

EPA 300.0, Rev. 2.1, 1993 (Aqueous)

SW-846 9056 A (Aqueous)

SW-846 9056 A (Non-Aqueous)

##### HARDNESS TOTAL - METALS

SM 2340 B-2011 (Ca EPA 200.7, Rev. 4.4, 1994 + Mg EPA 200.7, Rev. 4.4, 1994) (Aqueous)

##### MBAS

SM 5540 C-2011 (Aqueous)

##### NITROGEN, AMMONIA

EPA 350.1, Rev. 2.0, 1993 (Aqueous)

##### NITROGEN, NITRATE

(NO<sub>3</sub> + NO<sub>2</sub> SM 4500-NO<sub>3</sub><sup>-</sup> F-2011) - (NO<sub>2</sub> SM 4500-NO<sub>3</sub><sup>-</sup> F-2011) (Aqueous)

(NO<sub>3</sub> + NO<sub>2</sub> EPA 353.2, Rev. 2.0, 1993) - (NO<sub>2</sub> EPA 353.2, Rev. 2.0, 1993) (Aqueous)

EPA 300.0, Rev. 2.1, 1993 (Aqueous)

SW-846 9056 A (Aqueous)

SW-846 9056 A (Non-Aqueous)

##### NITROGEN, NITRITE

EPA 353.2, Rev. 2.0, 1993 (Aqueous)

SM 4500-NO<sub>3</sub><sup>-</sup> F-2011 (Aqueous)

EPA 300.0, Rev. 2.1, 1993 (Aqueous)

SW-846 9056 A (Aqueous)

SW-846 9056 A (Non-Aqueous)

##### NITROGEN, NO<sub>3</sub> + NO<sub>2</sub>

EPA 353.2, Rev. 2.0, 1993 (Aqueous)

SM 4500 NO<sub>3</sub><sup>-</sup> F-2011 (Aqueous)

EPA 300.0, Rev. 2.1, 1993 (Aqueous)

SW-846 9056 A (Aqueous)

SW-846 9056 A (Non-Aqueous)

##### NITROGEN, TOTAL KJELDAHL

EPA 351.2, Rev. 2.0, 1993 (Aqueous)

##### pH

SM 4500 H+B-2011 (Aqueous)

SW-846 9040 C (Aqueous)

SW-846 9045 D (Non-Aqueous)

##### PHOSPHATE, ORTHO

SM 4500 P F-2011 (Aqueous)

# North Carolina Wastewater/Groundwater Laboratory Certification

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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

EPA 365.1, Rev. 2.0, 1993 (Aqueous)	SW-846 6010 D (Non-Aqueous)
EPA 300.0, Rev. 2.1, 1993 (Aqueous)	EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 9056 A (Aqueous)	SW-846 6020 B (Aqueous)
SW-846 9056 A (Non-Aqueous)	SW-846 6020 B (Non-Aqueous)
PHOSPHORUS, TOTAL	ANTIMONY
EPA 365.4, 1974 (Aqueous)	EPA 200.7, Rev. 4.4, 1994 (Aqueous)
RESIDUE, DISSOLVED 180 C	SW-846 6010 D (Aqueous)
SM 2540 C-2011 (Aqueous)	SW-846 6010 D (Non-Aqueous)
RESIDUE, SETTLEABLE	EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SM 2540 F-2011 (Aqueous)	SW-846 6020 B (Aqueous)
RESIDUE, SUSPENDED	SW-846 6020 B (Non-Aqueous)
SM 2540 D-2011 (Aqueous)	ARSENIC
RESIDUE, TOTAL	EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SM 2540 B-2011 (Aqueous)	SW-846 6010 D (Aqueous)
SM 2540 G-2011 (Non-Aqueous)	SW-846 6010 D (Non-Aqueous)
SILICA - METALS	EPA 200.8, Rev. 5.4, 1994 (Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Aqueous)	SW-846 6020 B (Aqueous)
SW-846 6010 D (Aqueous)	SW-846 6020 B (Non-Aqueous)
SW-846 6010 D (Non-Aqueous)	BARIUM
SULFATE	EPA 200.7, Rev. 4.4, 1994 (Aqueous)
EPA 300.0, Rev. 2.1, 1993 (Aqueous)	SW-846 6010 D (Aqueous)
SW-846 9056 A (Aqueous)	SW-846 6010 D (Non-Aqueous)
SW-846 9056 A (Non-Aqueous)	EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SULFIDE	SW-846 6020 B (Aqueous)
SM 4500 S <sup>2-</sup> D-2011 (Aqueous)	SW-846 6020 B (Non-Aqueous)
TEMPERATURE	BERYLLIUM
SM 2550 B-2010 (Aqueous)	EPA 200.7, Rev. 4.4, 1994 (Aqueous)
TURBIDITY	SW-846 6010 D (Aqueous)
EPA 180.1, Rev. 2.0, 1993 (Aqueous)	SW-846 6010 D (Non-Aqueous)
SM 2130 B-2011 (Aqueous)	EPA 200.8, Rev. 5.4, 1994 (Aqueous)
<b>METAL</b>	SW-846 6020 B (Aqueous)
ALUMINUM	SW-846 6020 B (Non-Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Aqueous)	BORON
SW-846 6010 D (Aqueous)	EPA 200.7, Rev. 4.4, 1994 (Aqueous)

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

## Certified Parameters Listing

Lab Name: Environmental Conservation Laboratories Inc. - Cary  
Address: 102 Woodwinds Industrial Ct. Ste. A  
Cary, NC 27511-6204

Certificate Number: 591  
Effective Date: 1/1/2021  
Expiration Date: 12/31/2021  
Date of Last Amendment: 6/23/2021

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

SW-846 6010 D (Aqueous)	EPA 200.7, Rev. 4.4, 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)	EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)	SW-846 6020 B (Aqueous)
SW-846 6010 D (Non-Aqueous)	SW-846 6020 B (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)	IRON
SW-846 6020 B (Aqueous)	EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6020 B (Non-Aqueous)	SW-846 6010 D (Aqueous)
CALCIUM	SW-846 6010 D (Non-Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Aqueous)	EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)	SW-846 6020 B (Aqueous)
SW-846 6010 D (Non-Aqueous)	SW-846 6020 B (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)	LEAD
SW-846 6020 B (Aqueous)	EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6020 B (Non-Aqueous)	SW-846 6010 D (Aqueous)
CHROMIUM HEXAVALENT	SW-846 6010 D (Non-Aqueous)
SM 3500-Cr-B-2011 (Aqueous)	EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 7196 A (Aqueous)	SW-846 6020 B (Aqueous)
CHROMIUM TOTAL	SW-846 6020 B (Non-Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Aqueous)	MAGNESIUM
SW-846 6010 D (Aqueous)	EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Non-Aqueous)	SW-846 6010 D (Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)	SW-846 6010 D (Non-Aqueous)
SW-846 6020 B (Aqueous)	EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Non-Aqueous)	SW-846 6020 B (Aqueous)
COBALT	SW-846 6020 B (Non-Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Aqueous)	MANGANESE
SW-846 6010 D (Aqueous)	EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Non-Aqueous)	SW-846 6010 D (Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)	SW-846 6010 D (Non-Aqueous)
SW-846 6020 B (Aqueous)	EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Non-Aqueous)	SW-846 6020 B (Aqueous)
COPPER	SW-846 6020 B (Non-Aqueous)

# North Carolina Wastewater/Groundwater Laboratory Certification

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### CERTIFIED PARAMETERS

#### MERCURY

EPA 245.1, Rev. 3.0, 1994 (Aqueous)  
SW-846 7470 A (Aqueous)  
SW-846 7471 B (Non-Aqueous)

#### MOLYBDENUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
SW-846 6010 D (Aqueous)  
SW-846 6010 D (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
SW-846 6020 B (Aqueous)  
SW-846 6020 B (Non-Aqueous)

#### NICKEL

EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
SW-846 6010 D (Aqueous)  
SW-846 6010 D (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
SW-846 6020 B (Aqueous)  
SW-846 6020 B (Non-Aqueous)

#### POTASSIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
SW-846 6010 D (Aqueous)  
SW-846 6010 D (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
SW-846 6020 B (Aqueous)  
SW-846 6020 B (Non-Aqueous)

#### SELENIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
SW-846 6010 D (Aqueous)  
SW-846 6010 D (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
SW-846 6020 B (Aqueous)  
SW-846 6020 B (Non-Aqueous)

#### SILVER

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

SW-846 6010 D (Aqueous)  
SW-846 6010 D (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
SW-846 6020 B (Aqueous)  
SW-846 6020 B (Non-Aqueous)

#### SODIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
SW-846 6010 D (Aqueous)  
SW-846 6010 D (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
SW-846 6020 B (Aqueous)  
SW-846 6020 B (Non-Aqueous)

#### STRONTIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
SW-846 6010 D (Aqueous)  
SW-846 6010 D (Non-Aqueous)

#### THALLIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
SW-846 6010 D (Aqueous)  
SW-846 6010 D (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
SW-846 6020 B (Aqueous)  
SW-846 6020 B (Non-Aqueous)

#### TIN

EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
SW-846 6010 D (Aqueous)  
SW-846 6010 D (Non-Aqueous)

#### TITANIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
SW-846 6010 D (Aqueous)  
SW-846 6010 D (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
SW-846 6020 B (Aqueous)  
SW-846 6020 B (Non-Aqueous)

# North Carolina Wastewater/Groundwater Laboratory Certification

## Certified Parameters Listing

Lab Name: Environmental Conservation Laboratories Inc. - Cary  
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### CERTIFIED PARAMETERS

VANADIUM  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
SW-846 6010 D (Aqueous)  
SW-846 6010 D (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
SW-846 6020 B (Aqueous)  
SW-846 6020 B (Non-Aqueous)

ZINC  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
SW-846 6010 D (Aqueous)  
SW-846 6010 D (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
SW-846 6020 B (Aqueous)  
SW-846 6020 B (Non-Aqueous)

**ORGANIC**  
1,2, DIBROMOETHANE (EDB)  
EPA 504.1 (Includes DBCP & TCP) (Aqueous)  
SW-846 8011 (Includes DBCP) (Aqueous)

BASE NEUTRAL/ACID, ORGANICS  
EPA 625.1 (Aqueous)  
SW-846 8270 E (Aqueous)  
SW-846 8270 E (Non-Aqueous)

EXTRACTABLE PETROLEUM HYDROCARBONS  
MADEP, December 2019, Rev. 2.1 (Aqueous)  
MADEP, December 2019, Rev. 2.1 (Non-Aqueous)

PESTICIDES, ORGANOCHLORINE  
EPA 608.3 (Aqueous)  
SW-846 8081 B (Aqueous)  
SW-846 8081 B (Non-Aqueous)

POLYCHLORINATED BIPHENYLS (PCBs)  
EPA 608.3 (Aqueous)  
SW-846 8082 A (Aqueous)

PURGEABLE, ORGANICS  
EPA 624.1 (Aqueous)

SM 6200 B-2011 (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  
SW-846 8015 C (Aqueous)  
SW-846 8015 C (Non-Aqueous)  
VOLATILE PETROLEUM HYDROCARBONS  
MADEP, Feb 2018, Rev. 2.1 (Aqueous)  
MADEP, Feb 2018, Rev. 2.1 (Non-Aqueous)