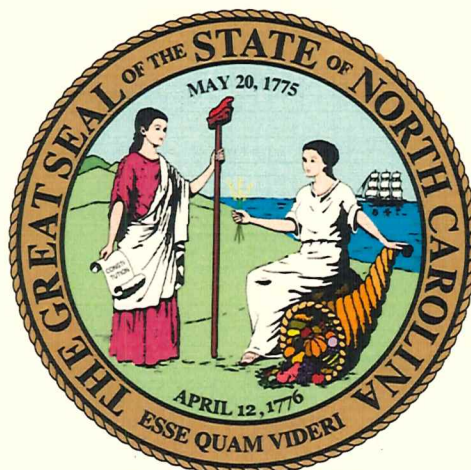


DIVISION OF WATER RESOURCES LABORATORY CERTIFICATION BRANCH

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



2022

Environment 1, 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 12/31/2022

Certificate No. 10

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

Todd Crawford

North Carolina Wastewater/Groundwater Laboratory Certification

Certified Parameters Listing

Lab Name: Environment 1, Inc.
Address: 114 Oakmont Dr.
Greenville, NC 27858

Certificate Number: 10
Effective Date: 1/1/2022
Expiration Date: 12/31/2021
Date of Last Amendment: 10/13/2021

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

SM 2320 B-2011 (Aqueous)

BACTERIA - COLIFORM FECAL

SM 9221 E-2014 (MPN) (Aqueous)

SM 9221 E-2014 (MPN) (Biosolids)

SM 9222 D-2015 (MF) (Aqueous)

BACTERIA - COLIFORM TOTAL

SM 9222 B-2015 (MF) (Aqueous)

SM 9221 B-2014 (MPN) (Aqueous)

BACTERIA - ENTEROCOCCI

IDEXX Enterolert® (MPN) (Aqueous)

BOD

SM 5210 B-2016 (Aqueous)

CBOD

SM 5210 B-2016 (Aqueous)

CHLORIDE

SM 4500 Cl⁻ B-2011 (Aqueous)

CHLOROPHYLL a

EPA 445.0, Rev. 1.2 (Fluorometric) (Aqueous)

COD

Hach 8000 (Aqueous)

COLOR, ADMI

SM 2120 F-2011 (ADMI) (Aqueous)

COLOR, PC

SM 2120 B-2011 (PtCo) (Aqueous)

CONDUCTIVITY

SM 2510 B-2011 (Aqueous)

CYANIDE

SM 4500 CN⁻ E-2016 (Total) (Aqueous)

SM 4500 CN⁻ E-2016 (Total) (Non-Aqueous)

DISSOLVED OXYGEN

SM 4500 O G-2016 (Aqueous)

FLUORIDE

SM 4500 F⁻ C-2011 (Aqueous)

HARDNESS TOTAL - WET CHEM

SM 2340 C-2011 (Aqueous)

NITROGEN, AMMONIA

EPA 350.1, Rev. 2.0, 1993 (Aqueous)

NITROGEN, NITRATE

(NO₃ + NO₂ EPA 353.2, Rev. 2.0, 1993) - (NO₂ EPA 353.2, Rev. 2.0, 1993) (Aqueous)

NITROGEN, NITRITE

EPA 353.2, Rev. 2.0, 1993 (Aqueous)

NITROGEN, NO₃ + NO₂

EPA 353.2, Rev. 2.0, 1993 (Aqueous)

NITROGEN, TOTAL KJELDAHL

EPA 351.2, Rev. 2.0, 1993 (Aqueous)

OIL & GREASE

EPA 1664 Rev. B (Aqueous)

ORGANIC CARBON, DISSOLVED

SM 5310 C-2014 (UV Oxidation) (Aqueous)

ORGANIC CARBON, TOTAL

SM 5310 C-2014 (UV Oxidation) (Aqueous)

pH

SM 4500 H+B-2011 (Aqueous)

PHOSPHATE, ORTHO

SM 4500 P E-2011 (Aqueous)

PHOSPHORUS, TOTAL

EPA 365.4, 1974 (Aqueous)

RESIDUE, DISSOLVED 180 C

SM 2540 C-2015 (Aqueous)

ASTM D5907-13 (Aqueous)

RESIDUE, SETTLEABLE

SM 2540 F-2015 (Aqueous)

RESIDUE, SUSPENDED

SM 2540 D-2015 (Aqueous)

RESIDUE, TOTAL

SM 2540 B-2015 (Aqueous)

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CERTIFIED PARAMETERS

SM 2540 G-2015 (Non-Aqueous)

SALINITY

SM 2520 B-2011 (Aqueous)

SULFATE

SM 4500 SO₄²⁻ E-2011 (Aqueous)

SULFIDE

SM 4500 S²⁻ D-2011 (Aqueous)

TEMPERATURE

SM 2550 B-2010 (Aqueous)

TURBIDITY

SM 2130 B-2011 (Aqueous)

METAL

ALUMINUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

SW-846 6020 B (Aqueous)

ANTIMONY

SM 3113 B-2010 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

SW-846 6020 B (Aqueous)

ARSENIC

SM 3113 B-2010 (Aqueous)

SM 3113 B-2010 (Non-Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

SW-846 6020 B (Aqueous)

BARIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

SW-846 6020 B (Aqueous)

BERYLLIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

SW-846 6020 B (Aqueous)

CADMIUM

SM 3113 B-2010 (Aqueous)

SM 3113 B-2010 (Non-Aqueous)

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

SW-846 6020 B (Aqueous)

CALCIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

CHROMIUM TOTAL

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

SW-846 6020 B (Aqueous)

COBALT

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

SW-846 6020 B (Aqueous)

COPPER

SM 3111 B-2011 (Aqueous)

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

SW-846 6020 B (Aqueous)

IRON

SM 3111 B-2011 (Aqueous)

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

SW-846 6020 B (Aqueous)

LEAD

SM 3113 B-2010 (Aqueous)

SM 3113 B-2010 (Non-Aqueous)

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CERTIFIED PARAMETERS

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

MAGNESIUM

SM 3111 B-2011 (Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)

MANGANESE

SM 3111 B-2011 (Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)

MERCURY

EPA 245.1, Rev. 3.0, 1994 (Aqueous)
SW-846 7471 B (Non-Aqueous)
EPA 1631 E (Aqueous)

MOLYBDENUM

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

NICKEL

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

POTASSIUM

SM 3111 B-2011 (Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)

SELENIUM

SM 3113 B-2010 (Aqueous)

SM 3113 B-2010 (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Aqueous)

SILVER

SM 3113 B-2010 (Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Aqueous)

SODIUM

SM 3111 B-2011 (Aqueous)
SM 3111 B-2011 (Non-Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)

THALLIUM

EPA 279.2, 1978 (Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Aqueous)

TIN

EPA 200.7, Rev. 4.4, 1994 (Aqueous)
EPA 200.8, Rev. 5.4, 1994 (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 6020 B (Aqueous)

ZINC

SM 3111 B-2011 (Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Aqueous)

ORGANIC

North Carolina Wastewater/Groundwater Laboratory Certification

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CERTIFIED PARAMETERS

BASE NEUTRAL/ACID, ORGANICS

EPA 625.1 (Aqueous)

SW-846 8270 E (Aqueous)

CHLORINATED ACID HERBICIDES

SW-846 8151 A (Aqueous)

PESTICIDES, ORGANOCHLORINE

SW-846 8081 B (Aqueous)

PURGEABLE, AROMATICS

EPA 602 (Aqueous)

SM 6200 C-2011 (Aqueous)

PURGEABLE, HALOCARBONS

SM 6200 C-2011 (Aqueous)

PURGEABLE, ORGANICS

EPA 624.1 (Aqueous)

SW-846 8260 D (Aqueous)