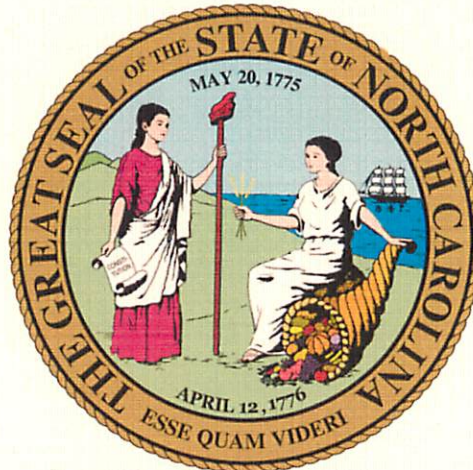


DIVISION OF WATER RESOURCES LABORATORY CERTIFICATION BRANCH

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



2020

Air Water & Soil Labs. Inc.

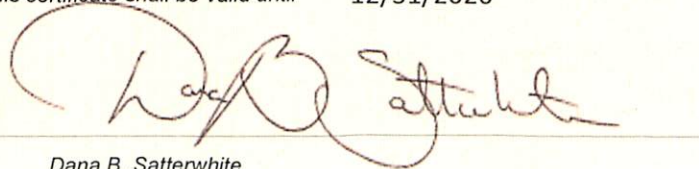
Is hereby certified to perform environmental analysis as listed on Attachment I and report monitoring data to DEQ for compliance with NPDES effluent, surface water, groundwater, and pretreatment regulations.

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 12/31/2020

Certificate No. 495



Dana B. Satterwhite

North Carolina Wastewater/Groundwater Laboratory Certification

Certified Parameters Listing

Lab Name: Air Water & Soil Labs. Inc.
Address: 1941 Reymet Road
Richmond, VA 23237-

Certificate Number: 495
Effective Date: 1/1/2020
Expiration Date: 12/31/2020
Date of Last Amendment: 10/9/2019

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

BOD

SM 5210 B-2011 (Aqueous)

CHLORIDE

SW-846 9056 A (Aqueous)

SW-846 9056 A (Non-Aqueous)

EPA 300.0, Rev. 2.1, 1993 (Aqueous)

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

COD

SM 5220 D-2011 (Aqueous)

CONDUCTIVITY

EPA 120.1, Rev. 1982 (Aqueous)

SM 2510 B-2011 (Aqueous)

SW-846 9050 A (Aqueous)

CYANIDE

Lachat 10-204-00-1-X, Rev. 2.2, 2005 (SM 4500 CN E -2011 Automated) (Total) (Aqueous)

FLASH POINT

SW-846 1010 A (Pensky-Martens) (Aqueous)

FLUORIDE

EPA 300.0, Rev. 2.1, 1993 (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)

SM 2340 B-2011 (Ca SM 3120B-2011 + Mg SM 3120B-2011) (Aqueous)

INORGANIC PHENOLS

EPA 420.1, Rev. 1978 (Aqueous)

NITROGEN, AMMONIA

EPA 350.1, Rev. 2.0, 1993 (Aqueous)

NITROGEN, NITRATE

EPA 300.0, Rev. 2.1, 1993 (Aqueous)

SW-846 9056 A (Non-Aqueous)

NITROGEN, NITRITE

EPA 300.0, Rev. 2.1, 1993 (Aqueous)

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

SW-846 9056 A (Aqueous)

SW-846 9056 A (Non-Aqueous)

NITROGEN, TOTAL KJELDAHL

EPA 351.2, Rev. 2.0, 1993 (Aqueous)

OIL & GREASE

EPA 1664 Rev. B (Aqueous)

pH

SW-846 9045 D (Non-Aqueous)

PHOSPHORUS, TOTAL

SM 4500 P E-2011 (Aqueous)

RESIDUE, DISSOLVED 180 C

SM 2540 C-2011 (Aqueous)

RESIDUE, SUSPENDED

SM 2540 D-2011 (Aqueous)

RESIDUE, TOTAL

SM 2540 B-2011 (Aqueous)

SULFATE

EPA 300.0, Rev. 2.1, 1993 (Aqueous)

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

SW-846 9056 A (Aqueous)

SW-846 9056 A (Non-Aqueous)

SULFIDE

SM 4500 S²⁻ F-2011 (Aqueous)

SW-846 9034 (Aqueous)

METAL

ALUMINUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

ANTIMONY

SW-846 7010 (Aqueous)

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.9, Rev. 2.2, 1994 (Aqueous)

ARSENIC

SW-846 7010 (Aqueous)

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.9, Rev. 2.2, 1994 (Aqueous)

BARIUM

North Carolina Wastewater/Groundwater Laboratory Certification

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CERTIFIED PARAMETERS

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

BERYLLIUM

SW-846 7010 (Aqueous)

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.9, Rev. 2.2, 1994 (Aqueous)

CADMIUM

SW-846 7010 (Aqueous)

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.9, Rev. 2.2, 1994 (Aqueous)

CHROMIUM TOTAL

SW-846 7010 (Aqueous)

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

COBALT

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

COPPER

SW-846 7010 (Aqueous)

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.9, Rev. 2.2, 1994 (Aqueous)

IRON

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

LEAD

SW-846 7010 (Aqueous)

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.9, Rev. 2.2, 1994 (Aqueous)

MANGANESE

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

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)

NICKEL

SW-846 7010 (Aqueous)

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.9, Rev. 2.2, 1994 (Aqueous)

SELENIUM

SW-846 7010 (Aqueous)

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.9, Rev. 2.2, 1994 (Aqueous)

SILVER

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

THALLIUM

SW-846 7010 (Aqueous)

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.9, Rev. 2.2, 1994 (Aqueous)

TIN

SW-846 7010 (Aqueous)

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

EPA 200.9, Rev. 2.2, 1994 (Aqueous)

VANADIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

ZINC

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

ORGANIC

1,2, DIBROMOETHANE (EDB)

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)

CHLORINATED ACID HERBICIDES

SW-846 8151 A (Aqueous)

SW-846 8151 A (Non-Aqueous)

PESTICIDES, ORGANOCHLORINE

North Carolina Wastewater/Groundwater Laboratory Certification

Certified Parameters Listing

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CERTIFIED PARAMETERS

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)
SW-846 8082 A (Non-Aqueous)
SW-846 8082 A (Oil)
PURGEABLE, ORGANICS
EPA 624.1 (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)