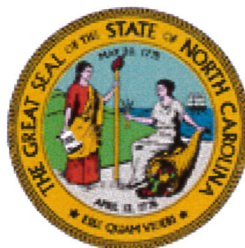


ROY COOPER
Governor
MICHAEL S. REGAN
Secretary
LINDA CULPEPPER
Interim Director



NORTH CAROLINA
Environmental Quality

RECEIVED
DEC 10 2019

MEMORANDUM

DATE: December 6, 2019
TO: Certified Laboratories
FROM: Dana Satterwhite, Laboratory Certification Branch Program Supervisor
SUBJECT: 2020 North Carolina Wastewater/Groundwater Laboratory Certification Renewal

The Department of Environmental Quality, in accordance with the provisions of NC G.S. 143-215-.3 (a) (10), 15 NCAC 2H .0800, is pleased to renew Certification for your laboratory to perform specified environmental analyses.

Enclosed is an updated Certificate and Certified Parameters Listing (CPL) describing the scope of your accreditation. **Please review the CPL carefully to ensure that your laboratory is certified for all parameter methods required to properly meet your Certification needs. It is also recommended that you verify the scope of accreditation of any contract or subcontract labs at least annually to ensure they maintain certification with our program for the appropriate parameters.**

Contact us at 919-733-3908 if you have questions or need additional information.

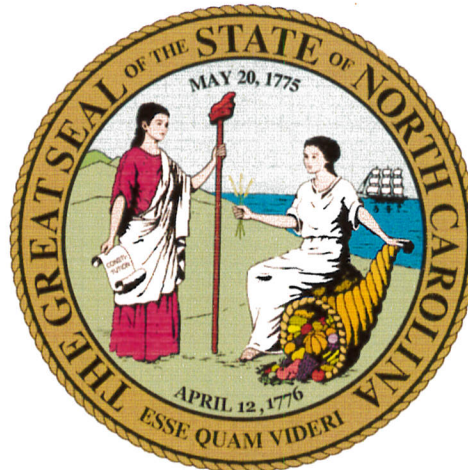
Attachment

cc: Master File



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

Rogers & Callcott Engineers Inc.

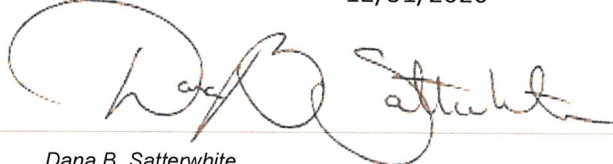
Is hereby certified to perform environmental analysis as listed on Attachment I and report monitoring data to DEQ for compliance with NPDES effluent, surface water, groundwater, and pretreatment regulations.

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. 27


Dana B. Satterwhite

North Carolina Wastewater/Groundwater Laboratory Certification

Certified Parameters Listing

Lab Name: Rogers & Callcott Engineers Inc.
Address: P.O. Box 5655
Greenville, SC 29606

Certificate Number: 27
Effective Date: 1/1/2020
Expiration Date: 12/31/2020
Date of Last Amendment: 7/1/2019

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

ALKALINITY

SM 2320 B-2011 (Aqueous)

BACTERIA - COLIFORM FECAL

IDEXX Colilert ®18 (MPN) (Aqueous)

SM 9221C E-2006 (MPN) (Aqueous)

SM 9221C E-2006 (MPN) (Biosolids)

BACTERIA - E. coli

IDEXX Colilert® (24 hr) (MPN) (Aqueous)

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)

CHLORINE, TOTAL RESIDUAL

SM 4500 Cl G-2011 (Aqueous)

COD

EPA 410.4, Rev. 2.0, 1993 (Aqueous)

COLOR, ADMI

SM 2120 E-1993 (ADMI) (Aqueous)

COLOR, PC

SM 2120 B-2011 (PtCo) (Aqueous)

CONDUCTIVITY

SM 2510 B-2011 (Aqueous)

SW-846 9050 A (Aqueous)

CYANIDE

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

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

SM 4500 CN⁻ E-2011 (Total) (Aqueous)

DISSOLVED OXYGEN

SM 4500 O G-2011 (Aqueous)

FLASH POINT

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

FLUORIDE

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)

HARDNESS TOTAL - METALS

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

INORGANIC PHENOLS

EPA 420.1, Rev. 1978 (Aqueous)

SW-846 9065 (Aqueous)

MBAS

SM 5540 C-2011 (Aqueous)

NITROGEN, AMMONIA

EPA 350.1, Rev. 2.0, 1993 (Aqueous)

NITROGEN, NITRATE

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, NITRITE

SM 4500-NO₂⁻ B-2011 (Automated) (Aqueous)

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, NO₃ + NO₂

SM 4500 NO₃⁻ H-2011 (Aqueous)

NITROGEN, TOTAL KJELDAHL

EPA 351.2, Rev. 2.0, 1993 (Aqueous)

OIL & GREASE

EPA 1664 Rev. B (Aqueous)

ORGANIC CARBON, TOTAL

SM 5310 B-2011 (Combustion) (Aqueous)

SW-846 9060 A (Combustion) (Aqueous)

PAINT FILTER LIQUIDS

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

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Address: P.O. Box 5655
Greenville, SC 29606

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CERTIFIED PARAMETERS

SW-846 9095B	VECTOR ATTRACTION REDUCTION: OPTION 1
pH	Reduction in Volatile Solids
SM 4500 H+B-2011 (Aqueous)	VECTOR ATTRACTION REDUCTION: OPTION 4
SW-846 9040 C (Aqueous)	Specific Oxygen Uptake Rate
SW-846 9045 D (Non-Aqueous)	METAL
PHOSPHATE, ORTHO	ALUMINUM
SM 4500 P E-2011 (Aqueous)	EPA 200.7, Rev. 4.4, 1994 (Aqueous)
PHOSPHORUS, TOTAL	SW-846 6010 D (Aqueous)
SM 4500 P E-2011 (Aqueous)	SW-846 6010 D (Non-Aqueous)
EPA 200.7, Rev. 4.4 (1994) (Aqueous)	ANTIMONY
SW-846 6010 D (Aqueous)	EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Non-Aqueous)	SW-846 6010 D (Aqueous)
RESIDUE, DISSOLVED 180 C	SW-846 6010 D (Non-Aqueous)
SM 2540 C-2011 (Aqueous)	EPA 200.8, Rev. 5.4, 1994 (Aqueous)
RESIDUE, SETTLEABLE	SW-846 6020 B (Aqueous)
SM 2540 F-2011 (Aqueous)	ARSENIC
RESIDUE, SUSPENDED	EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SM 2540 D-2011 (Aqueous)	SW-846 6010 D (Aqueous)
RESIDUE, TOTAL	SW-846 6010 D (Non-Aqueous)
SM 2540 B-2011 (Aqueous)	EPA 200.8, Rev. 5.4, 1994 (Aqueous)
RESIDUE, VOLATILE	SW-846 6020 B (Aqueous)
SM 2540 G-2011 (Non-Aqueous)	BARIUM
SILICA - NUTRIENTS	EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SM 4500 SiO2 C-2011 (Aqueous)	SW-846 6010 D (Aqueous)
SULFATE	SW-846 6010 D (Non-Aqueous)
EPA 300.0, Rev. 2.1, 1993 (Aqueous)	SW-846 6020 B (Aqueous)
EPA 300.0, Rev. 2.1, 1993 (Non-Aqueous)	BERYLLIUM
SW-846 9056 A (Aqueous)	EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 9056 A (Non-Aqueous)	SW-846 6010 D (Aqueous)
SULFIDE	SW-846 6010 D (Non-Aqueous)
SM 4500 S ²⁻ F-2011 (Aqueous)	EPA 200.8, Rev. 5.4, 1994 (Aqueous)
TEMPERATURE	SW-846 6020 B (Aqueous)
SM 2550 B-2010 (Aqueous)	BORON
TURBIDITY	EPA 200.7, Rev. 4.4, 1994 (Aqueous)
EPA 180.1, Rev. 2.0, 1993 (Aqueous)	SW-846 6010 D (Aqueous)

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North Carolina Wastewater/Groundwater Laboratory Certification

Certified Parameters Listing

Lab Name: Rogers & Callcott Engineers Inc.
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CERTIFIED PARAMETERS

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)	LEAD
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)
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)	LITHIUM
CHROMIUM HEXAVALENT	EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SM 3500-Cr-B-2011 (Aqueous)	SW-846 6010 D (Aqueous)
SW-846 7196 A (Aqueous)	SW-846 6010 D (Non-Aqueous)
SW-846 7196 A (Non-Aqueous)	MAGNESIUM
CHROMIUM TOTAL	EPA 200.7, Rev. 4.4, 1994 (Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Aqueous)	SW-846 6010 D (Aqueous)
SW-846 6010 D (Aqueous)	SW-846 6010 D (Non-Aqueous)
SW-846 6010 D (Non-Aqueous)	EPA 200.8, Rev. 5.4, 1994 (Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)	MANGANESE
SW-846 6020 B (Aqueous)	EPA 200.7, Rev. 4.4, 1994 (Aqueous)
COBALT	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)	MERCURY
SW-846 6020 B (Aqueous)	EPA 245.1, Rev. 3.0, 1994 (Aqueous)
COPPER	SW-846 7470 A (Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Aqueous)	SW-846 7471 B (Non-Aqueous)
SW-846 6010 D (Aqueous)	MOLYBDENUM
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)
IRON	EPA 200.8, Rev. 5.4, 1994 (Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Aqueous)	SW-846 6020 B (Aqueous)

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North Carolina Wastewater/Groundwater Laboratory Certification

Certified Parameters Listing

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CERTIFIED PARAMETERS

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)

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)

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)

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)

SODIUM

EPA 200.7, Rev. 4.4, 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)

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)

TIN

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)

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)

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)

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)

ORGANIC

BASE NEUTRAL/ACID, ORGANICS

EPA 625.1 (Aqueous)

SW-846 8270 E (Aqueous)

SW-846 8270 E (Non-Aqueous)

PESTICIDES, ORGANOCHLORINE

EPA 608.3 (Aqueous)

SW-846 8081 B (Aqueous)

SW-846 8081 B (Non-Aqueous)

North Carolina Wastewater/Groundwater Laboratory Certification

Certified Parameters Listing

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CERTIFIED PARAMETERS

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)