



**Commonwealth of Virginia**  
 Department of General Services  
 Division of Consolidated Laboratory Services



**Accredited Laboratories**  
**with Drinking Water Fields of Accreditation**  
**1 VAC 30 Chapter 46**  
**Effective: 07/09/2019**

|   |   |
|---|---|
| <b>Hampton Roads Sanitation District Central Environmental Laboratory/ Wet Labora</b><br>Virginia Beach, VA<br>Certificate No.: 10343 | Phone: (757) 460-4217<br>DCLS Lab ID: 460011<br>Certificate Expiration Date: 06/14/2020 |
|---|---|

| Method                                    | Analyte                                 | Method  | Analyte                                     |
|---|---|---|---|
| EPA 200.7 REV 4.4                         | ALUMINUM                                | EPA 200.7 REV 4.4                             | BARIUM                                      |
| EPA 200.7 REV 4.4                         | BERYLLIUM                               | EPA 200.7 REV 4.4                             | CADMIUM                                     |
| EPA 200.7 REV 4.4                         | CALCIUM                                 | EPA 200.7 REV 4.4                             | CHROMIUM                                    |
| EPA 200.7 REV 4.4                         | COPPER                                  | EPA 200.7 REV 4.4                             | IRON  |
| EPA 200.7 REV 4.4                         | MAGNESIUM                               | EPA 200.7 REV 4.4                             | MANGANESE                                   |
| EPA 200.7 REV 4.4                         | NICKEL                                  | EPA 200.7 REV 4.4                             | SILICA AS SIO2                              |
| EPA 200.7 REV 4.4                         | SILVER                                  | EPA 200.7 REV 4.4                             | SODIUM                                      |
| EPA 200.7 REV 4.4                         | ZINC                                    | EPA 200.8 REV 5.4                             | ALUMINUM                                    |
| EPA 200.8 REV 5.4                         | ANTIMONY                                | EPA 200.8 REV 5.4                             | ARSENIC                                     |
| EPA 200.8 REV 5.4                         | BARIUM                                  | EPA 200.8 REV 5.4                             | BERYLLIUM                                   |
| EPA 200.8 REV 5.4                         | CADMIUM                                 | EPA 200.8 REV 5.4                             | CHROMIUM                                    |
| EPA 200.8 REV 5.4                         | LEAD                                    | EPA 200.8 REV 5.4                             | MANGANESE                                   |
| EPA 200.8 REV 5.4                         | NICKEL                                  | EPA 200.8 REV 5.4                             | SELENIUM                                    |
| EPA 200.8 REV 5.4                         | SILVER                                  | EPA 200.8 REV 5.4                             | THALLIUM                                    |
| EPA 200.8 REV 5.4                         | URANIUM                                 | EPA 200.8 REV 5.4                             | ZINC  |
| EPA 245.1 REV 3                           | MERCURY                                 | EPA 300.0 REV 2.1                             | BROMIDE                                     |
| EPA 300.0 REV 2.1                         | CHLORIDE                                | EPA 300.0 REV 2.1                             | CHLORITE                                    |
| EPA 300.0 REV 2.1                         | FLUORIDE                                | EPA 300.0 REV 2.1                             | SULFATE                                     |
| EPA 300.1                                 | BROMATE                                 | EPA 300.1                                     | BROMIDE                                     |
| EPA 302.0                                 | BROMATE                                 | EPA 353.2 REV 2 (AS LACHAT 10-107-04-1 A + C) | NITRATE AS N                                |
| EPA 353.2 REV 2 (AS LACHAT 10-107-04-1-A) | NITRATE/NITRITE                         | EPA 353.2 REV 2 (AS LACHAT 10-107-04-1-C)     | NITRITE AS N                                |
| EPA 504.1 REV 1.1                         | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)      | EPA 504.1 REV 1.1                             | 1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE) |
| EPA 524.2 REV 4.1                         | 1,1,1-TRICHLOROETHANE                   | EPA 524.2 REV 4.1                             | 1,1,2-TRICHLOROETHANE                       |
| EPA 524.2 REV 4.1                         | 1,1-DICHLOROETHYLENE                    | EPA 524.2 REV 4.1                             | 1,2,4-TRICHLOROBENZENE                      |
| EPA 524.2 REV 4.1                         | 1,2-DICHLOROBENZENE (O-DICHLOROBENZENE) | EPA 524.2 REV 4.1                             | 1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)    |
| EPA 524.2 REV 4.1                         | 1,2-DICHLOROPROPANE                     | EPA 524.2 REV 4.1                             | 1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)     |
| EPA 524.2 REV 4.1                         | BENZENE                                 | EPA 524.2 REV 4.1                             | BROMODICHLOROMETHANE                        |
| EPA 524.2 REV 4.1                         | BROMOFORM                               | EPA 524.2 REV 4.1                             | CARBON TETRACHLORIDE                        |
| EPA 524.2 REV 4.1                         | CHLOROBENZENE                           | EPA 524.2 REV 4.1                             | CHLORODIBROMOMETHANE                        |
| EPA 524.2 REV 4.1                         | CHLOROFORM                              | EPA 524.2 REV 4.1                             | CIS-1,2-DICHLOROETHYLENE                    |
| EPA 524.2 REV 4.1                         | ETHYLBENZENE                            | EPA 524.2 REV 4.1                             | METHYLENE CHLORIDE (DICHLOROMETHANE)        |
| EPA 524.2 REV 4.1                         | STYRENE                                 | EPA 524.2 REV 4.1                             | TETRACHLOROETHENE (PERCHLOROETHENE)         |
| EPA 524.2 REV 4.1                         | TOLUENE                                 | EPA 524.2 REV 4.1                             | TOTAL TRIHALOMETHANES (TTHMS)               |
| EPA 524.2 REV 4.1                         | TRANS-1,2-DICHLOROETHENE                | EPA 524.2 REV 4.1                             | TRICHLOROETHENE (TRICHLOROETHYLENE)         |
| EPA 524.2 REV 4.1                         | VINYL CHLORIDE (CHLOROETHENE)           | EPA 524.2 REV 4.1                             | XYLENE (TOTAL)                              |
| EPA 552.2 REV 1                           | BROMOACETIC ACID                        | EPA 552.2 REV 1                               | CHLOROACETIC ACID                           |

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|----------------------------------|--------------------------------|----------------------------|--------------------------------|
| EPA 552.2 REV 1                  | DIBROMOACETIC ACID             | EPA 552.2 REV 1            | DICHLOROACETIC ACID            |
| EPA 552.2 REV 1                  | HALOACETIC ACIDS - FIVE (HAA5) | EPA 552.2 REV 1            | TRICHLOROACETIC ACID (TCAA)    |
| LACHAT QUIKCHEM<br>10-204-00-1-X | CYANIDE                        | SM 2320 B-2011             | ALKALINITY AS CaCO3            |
| SM 2510 B-2011                   | CONDUCTIVITY                   | SM 2540 C-2011             | RESIDUE-FILTERABLE (TDS)       |
| SM 4500-F <sup>-</sup> C-2011    | FLUORIDE                       | SM 5310 B-2011             | DISSOLVED ORGANIC CARBON (DOC) |
| SM 5310 B-2011                   | TOTAL ORGANIC CARBON (TOC)     | SM 5310 C-2011             | DISSOLVED ORGANIC CARBON (DOC) |
| SM 5310 C-2011                   | TOTAL ORGANIC CARBON (TOC)     | SM 5540 C-2011             | SURFACTANTS - MBAS             |
| SM 5910 B-2011                   | UV 254                         | SM 9215 B-2004             | HETEROTROPHIC PLATE COUNT      |
| SM 9223 COLILERT-18<br>MPN       | ESCHERICHIA COLI               | SM 9223 COLILERT-18<br>MPN | TOTAL COLIFORMS                |

**James R. Reed & Associates**

Newport News, VA

Certificate No.: 10441

Phone: (757) 873-4703

DCLS Lab ID: 460013

Certificate Expiration Date: 06/14/2020

| <b>Method</b>     | <b>Analyte</b>                                      | <b>Method</b>     | <b>Analyte</b>                                   |
|-------------------|---|-------------------|--|
| EPA 180.1 REV 2   | TURBIDITY   | EPA 200.7 REV 4.4 | ALUMINUM   |
| EPA 200.7 REV 4.4 | BARIUM  | EPA 200.7 REV 4.4 | BERYLLIUM  |
| EPA 200.7 REV 4.4 | CADMIUM   | EPA 200.7 REV 4.4 | CALCIUM  |
| EPA 200.7 REV 4.4 | CHROMIUM  | EPA 200.7 REV 4.4 | COPPER   |
| EPA 200.7 REV 4.4 | IRON  | EPA 200.7 REV 4.4 | MAGNESIUM  |
| EPA 200.7 REV 4.4 | MANGANESE   | EPA 200.7 REV 4.4 | NICKEL   |
| EPA 200.7 REV 4.4 | SILVER  | EPA 200.7 REV 4.4 | SODIUM   |
| EPA 200.7 REV 4.4 | ZINC  | EPA 200.9 REV 2.2 | LEAD   |
| EPA 245.1 REV 3   | MERCURY   | EPA 300.0 REV 2.1 | CHLORIDE   |
| EPA 300.0 REV 2.1 | FLUORIDE  | EPA 300.0 REV 2.1 | NITRATE AS N                                     |
| EPA 300.0 REV 2.1 | NITRITE AS N  | EPA 300.0 REV 2.1 | SULFATE  |
| EPA 335.4 REV 1.0 | CYANIDE   | EPA 353.2 REV 2   | NITRATE AS N                                     |
| EPA 353.2 REV 2   | NITRATE/NITRITE                                     | EPA 353.2 REV 2   | NITRITE AS N                                     |
| EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)                  | EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE<br>DIBROMIDE)   |
| EPA 507 REV 2.1   | ALACHLOR  | EPA 507 REV 2.1   | ATRAZINE   |
| EPA 507 REV 2.1   | SIMAZINE  | EPA 508 REV 3.1   | AROCLOR-1016 (PCB-1016)                          |
| EPA 508 REV 3.1   | AROCLOR-1221 (PCB-1221)                             | EPA 508 REV 3.1   | AROCLOR-1232 (PCB-1232)                          |
| EPA 508 REV 3.1   | AROCLOR-1242 (PCB-1242)                             | EPA 508 REV 3.1   | AROCLOR-1248 (PCB-1248)                          |
| EPA 508 REV 3.1   | AROCLOR-1254 (PCB-1254)                             | EPA 508 REV 3.1   | AROCLOR-1260 (PCB-1260)                          |
| EPA 508 REV 3.1   | CHLORDANE, TOTAL                                    | EPA 508 REV 3.1   | ENDRIN   |
| EPA 508 REV 3.1   | GAMMA-BHC (LINDANE,<br>GAMMA-HEXACHLOROCYCLOHEXANE) | EPA 508 REV 3.1   | HEPTACHLOR                                       |
| EPA 508 REV 3.1   | HEPTACHLOR EPOXIDE                                  | EPA 508 REV 3.1   | HEXACHLOROBENZENE                                |
| EPA 508 REV 3.1   | HEXACHLOROCYCLOPENTADIENE                           | EPA 508 REV 3.1   | METHOXYCHLOR                                     |
| EPA 508 REV 3.1   | TOXAPHENE (CHLORINATED CAMPHENE)                    | EPA 515.1 REV 4   | 2,4-D  |
| EPA 515.1 REV 4   | DALAPON   | EPA 515.1 REV 4   | DINOSEB<br>(2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP) |
| EPA 515.1 REV 4   | PENTACHLOROPHENOL                                   | EPA 515.1 REV 4   | PICLORAM   |
| EPA 515.1 REV 4   | SILVEX (2,4,5-TP)                                   | EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                            |
| EPA 524.2 REV 4.1 | 1,1,2-TRICHLOROETHANE                               | EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                             |
| EPA 524.2 REV 4.1 | 1,2,4-TRICHLOROBENZENE                              | EPA 524.2 REV 4.1 | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE)       |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE)         | EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE                              |
| EPA 524.2 REV 4.1 | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)          | EPA 524.2 REV 4.1 | BENZENE  |
| EPA 524.2 REV 4.1 | BROMODICHLOROMETHANE                                | EPA 524.2 REV 4.1 | BROMOFORM  |
| EPA 524.2 REV 4.1 | CARBON TETRACHLORIDE                                | EPA 524.2 REV 4.1 | CHLOROBENZENE                                    |
| EPA 524.2 REV 4.1 | CHLORODIBROMOMETHANE                                | EPA 524.2 REV 4.1 | CHLOROFORM                                       |
| EPA 524.2 REV 4.1 | CIS-1,2-DICHLOROETHYLENE                            | EPA 524.2 REV 4.1 | ETHYLBENZENE                                     |

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|---|---|----------------------------------|---------------------------------|
| EPA 524.2 REV 4.1                           | METHYLENE CHLORIDE<br>(DICHLOROMETHANE) | EPA 524.2 REV 4.1                | STYRENE                         |
| EPA 524.2 REV 4.1                           | TETRACHLOROETHENE<br>(PERCHLOROETHENE)  | EPA 524.2 REV 4.1                | TOLUENE                         |
| EPA 524.2 REV 4.1                           | TOTAL TRIHALOMETHANES (TTHMS)           | EPA 524.2 REV 4.1                | TRANS-1,2-DICHLOROETHENE        |
| EPA 524.2 REV 4.1                           | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)  | EPA 524.2 REV 4.1                | VINYL CHLORIDE (CHLOROETHENE)   |
| EPA 524.2 REV 4.1                           | XYLENE (TOTAL)                          | EPA 552.2 REV 1                  | BROMOACETIC ACID                |
| EPA 552.2 REV 1                             | CHLOROACETIC ACID                       | EPA 552.2 REV 1                  | DIBROMOACETIC ACID              |
| EPA 552.2 REV 1                             | DICHLOROACETIC ACID                     | EPA 552.2 REV 1                  | HALOACETIC ACIDS - FIVE (HAA5)  |
| EPA 552.2 REV 1                             | TRICHLOROACETIC ACID (TCAA)             | SM 2120 B-2011                   | COLOR                           |
| SM 2150 B-2011                              | ODOR                                    | SM 2320 B-2011                   | ALKALINITY AS CaCO <sub>3</sub> |
| SM 2510 B-2011                              | CONDUCTIVITY                            | SM 2540 C-2011                   | RESIDUE-FILTERABLE (TDS)        |
| SM 4500-CL G-2011 (AS HACH 8021)            | RESIDUAL FREE CHLORINE                  | SM 4500-CL G-2011 (AS HACH 8167) | TOTAL RESIDUAL CHLORINE         |
| SM 4500-F <sup>-</sup> C-2011               | FLUORIDE                                | SM 4500-H <sup>+</sup> B-2011    | PH                              |
| SM 4500-NO <sub>2</sub> <sup>-</sup> B-2011 | NITRITE AS N                            | SM 4500-P E-2011                 | ORTHOPHOSPHATE AS P             |
| SM 4500-SIO <sub>2</sub> C-2011             | SILICA AS SIO <sub>2</sub>              | SM 5310 B-2011                   | DISSOLVED ORGANIC CARBON (DOC)  |
| SM 5310 B-2011                              | TOTAL ORGANIC CARBON (TOC)              | SM 5540 C-2011                   | SURFACTANTS - MBAS              |
| SM 5910 B-2011                              | UV 254                                  | SM 9215 B-2004                   | HETEROTROPHIC PLATE COUNT       |
| SM 9223 COLILERT<br>MPN                     | ESCHERICHIA COLI                        | SM 9223 COLILERT<br>MPN          | TOTAL COLIFORMS                 |
| SM 9223 COLILERT P/A                        | ESCHERICHIA COLI                        | SM 9223 COLILERT P/A             | TOTAL COLIFORMS                 |

**Air Water & Soil Laboratories, Inc.**  
Richmond, VA

Phone: (804) 358-8295  
DCLS Lab ID: 460021

Certificate No.: 10503

Certificate Expiration Date: 06/14/2020

| <b>Method</b>     | <b>Analyte</b>                     | <b>Method</b>     | <b>Analyte</b>                                 |
|-------------------|------------------------------------|-------------------|--|
| ENTEROLERT®       | ENTEROCOCCI                        | EPA 180.1 REV 2   | TURBIDITY                                      |
| EPA 200.7 REV 4.4 | ALUMINUM                           | EPA 200.7 REV 4.4 | BARIUM   |
| EPA 200.7 REV 4.4 | CADMIUM                            | EPA 200.7 REV 4.4 | CALCIUM  |
| EPA 200.7 REV 4.4 | CHROMIUM                           | EPA 200.7 REV 4.4 | COPPER   |
| EPA 200.7 REV 4.4 | IRON                               | EPA 200.7 REV 4.4 | MAGNESIUM                                      |
| EPA 200.7 REV 4.4 | MANGANESE                          | EPA 200.7 REV 4.4 | NICKEL   |
| EPA 200.7 REV 4.4 | SILVER                             | EPA 200.7 REV 4.4 | SODIUM   |
| EPA 200.7 REV 4.4 | ZINC                               | EPA 200.8 REV 5.4 | ANTIMONY                                       |
| EPA 200.8 REV 5.4 | ARSENIC                            | EPA 200.8 REV 5.4 | BARIUM   |
| EPA 200.8 REV 5.4 | BERYLLIUM                          | EPA 200.8 REV 5.4 | CADMIUM  |
| EPA 200.8 REV 5.4 | CHROMIUM                           | EPA 200.8 REV 5.4 | COPPER   |
| EPA 200.8 REV 5.4 | LEAD                               | EPA 200.8 REV 5.4 | MANGANESE                                      |
| EPA 200.8 REV 5.4 | NICKEL                             | EPA 200.8 REV 5.4 | SELENIUM                                       |
| EPA 200.8 REV 5.4 | SILVER                             | EPA 200.8 REV 5.4 | THALLIUM                                       |
| EPA 200.8 REV 5.4 | ZINC                               | EPA 200.9 REV 2.2 | ANTIMONY                                       |
| EPA 200.9 REV 2.2 | ARSENIC                            | EPA 200.9 REV 2.2 | BERYLLIUM                                      |
| EPA 200.9 REV 2.2 | CADMIUM                            | EPA 200.9 REV 2.2 | LEAD   |
| EPA 200.9 REV 2.2 | SELENIUM                           | EPA 200.9 REV 2.2 | THALLIUM                                       |
| EPA 245.1 REV 3   | MERCURY                            | EPA 300.0 REV 2.1 | CHLORIDE                                       |
| EPA 300.0 REV 2.1 | CHLORITE                           | EPA 300.0 REV 2.1 | FLUORIDE                                       |
| EPA 300.0 REV 2.1 | NITRATE AS N                       | EPA 300.0 REV 2.1 | NITRATE/NITRITE                                |
| EPA 300.0 REV 2.1 | NITRITE AS N                       | EPA 300.0 REV 2.1 | SULFATE  |
| EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) | EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE<br>DIBROMIDE) |
| EPA 508.1 REV 2   | AROCLOR-1016 (PCB-1016)            | EPA 508.1 REV 2   | AROCLOR-1221 (PCB-1221)                        |
| EPA 508.1 REV 2   | AROCLOR-1232 (PCB-1232)            | EPA 508.1 REV 2   | AROCLOR-1242 (PCB-1242)                        |
| EPA 508.1 REV 2   | AROCLOR-1248 (PCB-1248)            | EPA 508.1 REV 2   | AROCLOR-1254 (PCB-1254)                        |
| EPA 508.1 REV 2   | AROCLOR-1260 (PCB-1260)            | EPA 508.1 REV 2   | CHLORDANE, TOTAL                               |

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|---|---|---|--|
| EPA 508.1 REV 2                             | ENDRIN  | EPA 508.1 REV 2                             | GAMMA-BHC (LINDANE,<br>GAMMA-HEXACHLOROCYCLOHEXANE)                |
| EPA 508.1 REV 2                             | HEPTACHLOR  | EPA 508.1 REV 2                             | HEPTACHLOR EPOXIDE   |
| EPA 508.1 REV 2                             | METHOXYCHLOR  | EPA 508.1 REV 2                             | TOXAPHENE (CHLORINATED CAMPHENE)                                   |
| EPA 515.4 REV 1                             | 2,4-D   | EPA 515.4 REV 1                             | DALAPON  |
| EPA 515.4 REV 1                             | DINOSEB<br>(2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)      | EPA 515.4 REV 1                             | PENTACHLOROPHENOL  |
| EPA 515.4 REV 1                             | PICLORAM  | EPA 515.4 REV 1                             | SILVEX (2,4,5-TP)  |
| EPA 524.2 REV 4.1                           | 1,1,1-TRICHLOROETHANE                                 | EPA 524.2 REV 4.1                           | 1,1,2-TRICHLOROETHANE  |
| EPA 524.2 REV 4.1                           | 1,1-DICHLOROETHYLENE                                  | EPA 524.2 REV 4.1                           | 1,2,4-TRICHLOROBENZENE   |
| EPA 524.2 REV 4.1                           | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE)            | EPA 524.2 REV 4.1                           | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE)                        |
| EPA 524.2 REV 4.1                           | 1,2-DICHLOROPROPANE                                   | EPA 524.2 REV 4.1                           | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)                         |
| EPA 524.2 REV 4.1                           | BENZENE   | EPA 524.2 REV 4.1                           | BROMODICHLOROMETHANE   |
| EPA 524.2 REV 4.1                           | BROMOFORM   | EPA 524.2 REV 4.1                           | CARBON TETRACHLORIDE   |
| EPA 524.2 REV 4.1                           | CHLOROBENZENE   | EPA 524.2 REV 4.1                           | CHLORODIBROMOMETHANE   |
| EPA 524.2 REV 4.1                           | CHLOROFORM  | EPA 524.2 REV 4.1                           | CIS-1,2-DICHLOROETHYLENE   |
| EPA 524.2 REV 4.1                           | ETHYLBENZENE  | EPA 524.2 REV 4.1                           | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)                            |
| EPA 524.2 REV 4.1                           | STYRENE   | EPA 524.2 REV 4.1                           | TETRACHLOROETHENE<br>(PERCHLOROETHENE)                             |
| EPA 524.2 REV 4.1                           | TOLUENE   | EPA 524.2 REV 4.1                           | TOTAL TRIHALOMETHANES (TTHMS)                                      |
| EPA 524.2 REV 4.1                           | TRANS-1,2-DICHLOROETHENE                              | EPA 524.2 REV 4.1                           | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)                             |
| EPA 524.2 REV 4.1                           | VINYL CHLORIDE (CHLOROETHENE)                         | EPA 524.2 REV 4.1                           | XYLENE (TOTAL)   |
| EPA 525.2 REV 2                             | ALACHLOR  | EPA 525.2 REV 2                             | ATRAZINE   |
| EPA 525.2 REV 2                             | BENZO(A)PYRENE  | EPA 525.2 REV 2                             | BIS(2-ETHYLHEXYL) PHTHALATE<br>(DI(2-ETHYLHEXYL)PHTHALATE), (DEHP) |
| EPA 525.2 REV 2                             | BIS(2-ETHYLHEXYL)ADIPATE<br>(DI(2-ETHYLHEXYL)ADIPATE) | EPA 525.2 REV 2                             | HEXACHLOROBENZENE  |
| EPA 525.2 REV 2                             | HEXACHLOROCYCLOPENTADIENE                             | EPA 525.2 REV 2                             | SIMAZINE   |
| EPA 552.3 REV 1                             | BROMOACETIC ACID                                      | EPA 552.3 REV 1                             | CHLOROACETIC ACID  |
| EPA 552.3 REV 1                             | DIBROMOACETIC ACID                                    | EPA 552.3 REV 1                             | DICHLOROACETIC ACID  |
| EPA 552.3 REV 1                             | HALOACETIC ACIDS - FIVE (HAA5)                        | EPA 552.3 REV 1                             | TRICHLOROACETIC ACID (TCAA)  |
| SIMPLATE                                    | HETEROTROPHIC PLATE COUNT                             | SM 2120 B-2011                              | COLOR  |
| SM 2130 B-2011                              | TURBIDITY   | SM 2320 B-2011                              | ALKALINITY AS CaCO <sub>3</sub>                                    |
| SM 2510 B-2011                              | CONDUCTIVITY  | SM 2540 C-2011                              | RESIDUE-FILTERABLE (TDS)   |
| SM 4500-CN <sup>-</sup> E-2011              | CYANIDE   | SM 4500-H <sup>+</sup> B-2011               | PH   |
| SM 4500-NO <sub>2</sub> <sup>-</sup> B-2011 | NITRITE AS N  | SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011 | NITRATE/NITRITE  |
| SM 4500-P E-2011                            | ORTHOPHOSPHATE AS P                                   | SM 5310 C-2011                              | DISSOLVED ORGANIC CARBON (DOC)                                     |
| SM 5310 C-2011                              | TOTAL ORGANIC CARBON (TOC)                            | SM 5540 C-2011                              | SURFACTANTS - MBAS   |
| SM 5910 B-2011                              | UV 254  | SM 9223 COLILERT-18<br>MPN                  | ESCHERICHIA COLI   |
| SM 9223 COLILERT-18<br>MPN                  | TOTAL COLIFORMS                                       | SM 9223 COLILERT-18<br>P/A                  | ESCHERICHIA COLI   |
| SM 9223 COLILERT-18<br>P/A                  | TOTAL COLIFORMS                                       | SM 9223 COLISURE®                           | ESCHERICHIA COLI   |
| SM 9223 COLISURE®                           | TOTAL COLIFORMS                                       |   |  |

**Inboden Environmental Services, Inc.**

Mount Jackson, VA

Certificate No.: 10359

Phone: (540) 477-3300

DCLS Lab ID: 460024

Certificate Expiration Date: 06/14/2020

| <b>Method</b>              | <b>Analyte</b>   | <b>Method</b>              | <b>Analyte</b>   |
|----------------------------|------------------|----------------------------|------------------|
| SM 9223 COLILERT<br>MPN    | ESCHERICHIA COLI | SM 9223 COLILERT P/A       | ESCHERICHIA COLI |
| SM 9223 COLILERT P/A       | TOTAL COLIFORMS  | SM 9223 COLILERT-18<br>MPN | ESCHERICHIA COLI |
| SM 9223 COLILERT-18<br>MPN | TOTAL COLIFORMS  | SM 9223 COLILERT-18<br>P/A | ESCHERICHIA COLI |

**Accredited Laboratories**  
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SM 9223 COLILERT-18      TOTAL COLIFORMS  
P/A

**Pace Analytical Services, LLC - Eden NC**  
Eden, NC

Phone: (828) 254-7176  
DCLS Lab ID: 460025

Certificate No.: 10379

Certificate Expiration Date: 06/14/2020

| Method                          | Analyte          | Method                  | Analyte             |
|---------------------------------|------------------|-------------------------|---------------------|
| HACH 10206                      | NITRATE AS N     | SM 2120 B-2011          | COLOR               |
| SM 2130 B-2011                  | TURBIDITY        | SM 2320 B-2011          | ALKALINITY AS CaCO3 |
| SM 4500-NO2 <sup>-</sup> B-2011 | NITRITE AS N     | SM 5910 B-2011          | UV 254              |
| SM 9223 COLILERT<br>MPN         | ESCHERICHIA COLI | SM 9223 COLILERT<br>MPN | TOTAL COLIFORMS     |
| SM 9223 COLISURE®               | ESCHERICHIA COLI | SM 9223 COLISURE®       | TOTAL COLIFORMS     |

**Coastal Bioanalysts, Inc.**  
Gloucester, VA

Phone: (804) 694-8285  
DCLS Lab ID: 460030

Certificate No.: 10298

Certificate Expiration Date: 06/14/2020

| Method                     | Analyte          | Method                     | Analyte         |
|----------------------------|------------------|----------------------------|-----------------|
| SM 9223 COLILERT<br>MPN    | ESCHERICHIA COLI | SM 9223 COLILERT<br>MPN    | TOTAL COLIFORMS |
| SM 9223 COLILERT P/A       | ESCHERICHIA COLI | SM 9223 COLILERT P/A       | TOTAL COLIFORMS |
| SM 9223 COLILERT-18<br>MPN | ESCHERICHIA COLI | SM 9223 COLILERT-18<br>MPN | TOTAL COLIFORMS |
| SM 9223 COLILERT-18<br>P/A | ESCHERICHIA COLI | SM 9223 COLILERT-18<br>P/A | TOTAL COLIFORMS |

**LJT & Associates, Inc.**  
Wallops Island, VA

Phone: (757) 824-2352  
DCLS Lab ID: 460031

Certificate No.: 10299

Certificate Expiration Date: 06/14/2020

| Method                  | Analyte          | Method                  | Analyte         |
|-------------------------|------------------|-------------------------|-----------------|
| SM 9223 COLILERT<br>MPN | ESCHERICHIA COLI | SM 9223 COLILERT<br>MPN | TOTAL COLIFORMS |
| SM 9223 COLILERT P/A    | ESCHERICHIA COLI | SM 9223 COLILERT P/A    | TOTAL COLIFORMS |

**EnviroCompliance Laboratories, Inc. - Ashland**  
Ashland, VA

Phone: (804) 550-3971  
DCLS Lab ID: 460032

Certificate No.: 10300

Certificate Expiration Date: 06/14/2020

| Method            | Analyte          | Method            | Analyte         |
|-------------------|------------------|-------------------|-----------------|
| EPA 150.1         | PH               | EPA 200.8 REV 5.4 | ANTIMONY        |
| EPA 200.8 REV 5.4 | ARSENIC          | EPA 200.8 REV 5.4 | BARIUM          |
| EPA 200.8 REV 5.4 | BERYLLIUM        | EPA 200.8 REV 5.4 | CADMIUM         |
| EPA 200.8 REV 5.4 | CHROMIUM         | EPA 200.8 REV 5.4 | COPPER          |
| EPA 200.8 REV 5.4 | LEAD             | EPA 200.8 REV 5.4 | NICKEL          |
| EPA 200.8 REV 5.4 | SELENIUM         | EPA 200.8 REV 5.4 | THALLIUM        |
| EPA 300.0 REV 2.1 | CHLORIDE         | EPA 300.0 REV 2.1 | NITRATE AS N    |
| M-COLIBLUE24®     | ESCHERICHIA COLI | M-COLIBLUE24®     | TOTAL COLIFORMS |
| SM 3111 B-2011    | CALCIUM          | SM 3111 B-2011    | MAGNESIUM       |
| SM 3111 B-2011    | SODIUM           | SM 4500-H+ B-2011 | PH              |

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SM 4500-NO<sub>2</sub><sup>-</sup> B-2011  
SM 9221 B-2006

NITRITE AS N  
TOTAL COLIFORMS

SM 9215 B-2004  
SM 9221 F (P/A) -2006

HETEROTROPHIC PLATE COUNT  
ESCHERICHIA COLI

**Joiner Micro Laboratories, Inc.**

Warrenton, VA

Certificate No.: 10347

Phone: (540) 347-7212

DCLS Lab ID: 460034

Certificate Expiration Date: 06/14/2020

| Method                  | Analyte                   | Method                  | Analyte          |
|-------------------------|---------------------------|-------------------------|------------------|
| SM 9215 B-2004          | HETEROTROPHIC PLATE COUNT | SM 9221 B-2006          | TOTAL COLIFORMS  |
| SM 9221 F (P/A) -2006   | ESCHERICHIA COLI          | SM 9223 COLILERT<br>MPN | ESCHERICHIA COLI |
| SM 9223 COLILERT<br>MPN | TOTAL COLIFORMS           | SM 9223 COLILERT P/A    | ESCHERICHIA COLI |
| SM 9223 COLILERT P/A    | TOTAL COLIFORMS           |                         |                  |

**Universal Laboratories - Hampton**

Hampton, VA

Certificate No.: 10234

Phone: (757) 865-0880

DCLS Lab ID: 460036

Certificate Expiration Date: 06/14/2020

| Method                                   | Analyte                         | Method                                 | Analyte                       |
|--|---------------------------------|--|-------------------------------|
| ASTM D516-11 (AS<br>SEAL EPA-165-A)      | SULFATE                         | EPA 200.7 REV 4.4                      | ALUMINUM                      |
| EPA 200.7 REV 4.4                        | BARIUM                          | EPA 200.7 REV 4.4                      | BERYLLIUM                     |
| EPA 200.7 REV 4.4                        | CADMIUM                         | EPA 200.7 REV 4.4                      | CALCIUM                       |
| EPA 200.7 REV 4.4                        | CHROMIUM                        | EPA 200.7 REV 4.4                      | COPPER                        |
| EPA 200.7 REV 4.4                        | IRON                            | EPA 200.7 REV 4.4                      | MAGNESIUM                     |
| EPA 200.7 REV 4.4                        | NICKEL                          | EPA 200.7 REV 4.4                      | ZINC                          |
| EPA 335.4 REV 1.0 (AS<br>SEAL EPA-130-A) | CYANIDE                         | EPA 353.2 REV 2 (AS<br>SEAL EPA-115-A) | NITRITE AS N                  |
| EPA 353.2 REV 2 (AS<br>SEAL EPA-126-A)   | NITRATE AS N                    | EPA 353.2 REV 2 (AS<br>SEAL EPA-126-A) | NITRATE/NITRITE               |
| EPA 365.1 REV 2 (AS<br>SEAL EPA-118-A)   | ORTHOPHOSPHATE AS P             | EPA 524.2 REV 4.1                      | BROMODICHLOROMETHANE          |
| EPA 524.2 REV 4.1                        | BROMOFORM                       | EPA 524.2 REV 4.1                      | CHLORODIBROMOMETHANE          |
| EPA 524.2 REV 4.1                        | CHLOROFORM                      | EPA 524.2 REV 4.1                      | TOTAL TRIHALOMETHANES (TTHMS) |
| READYCULT®                               | ESCHERICHIA COLI                | READYCULT®                             | TOTAL COLIFORMS               |
| SM 2120 B-2011                           | COLOR                           | SM 2130 B-2011                         | TURBIDITY                     |
| SM 2320 B-2011                           | ALKALINITY AS CaCO <sub>3</sub> | SM 2510 B-2011                         | CONDUCTIVITY                  |
| SM 2540 C-2011                           | RESIDUE-FILTERABLE (TDS)        | SM 4500-CL G-2011                      | TOTAL RESIDUAL CHLORINE       |
| SM 4500-CL <sup>-</sup> B-2011           | CHLORIDE                        | SM 4500-F <sup>-</sup> C-2011          | FLUORIDE                      |
| SM 4500-H+ B-2011                        | PH                              | SM 9215 B-2004                         | HETEROTROPHIC PLATE COUNT     |
| SM 9223 COLILERT<br>MPN                  | ESCHERICHIA COLI                | SM 9223 COLILERT<br>MPN                | TOTAL COLIFORMS               |

**Environmental Monitoring, Inc.**

Norton, VA

Certificate No.: 10229

Phone: (276) 679-6544

DCLS Lab ID: 460038

Certificate Expiration Date: 06/14/2020

| Method            | Analyte   | Method            | Analyte   |
|-------------------|-----------|-------------------|-----------|
| EPA 200.7 REV 4.4 | ALUMINUM  | EPA 200.7 REV 4.4 | BARIUM    |
| EPA 200.7 REV 4.4 | BERYLLIUM | EPA 200.7 REV 4.4 | CADMIUM   |
| EPA 200.7 REV 4.4 | CALCIUM   | EPA 200.7 REV 4.4 | CHROMIUM  |
| EPA 200.7 REV 4.4 | COPPER    | EPA 200.7 REV 4.4 | IRON      |
| EPA 200.7 REV 4.4 | MAGNESIUM | EPA 200.7 REV 4.4 | MANGANESE |

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Effective: 07/09/2019**

|                         |                                 |                         |                  |
|-------------------------|---------------------------------|-------------------------|------------------|
| EPA 200.7 REV 4.4       | NICKEL                          | EPA 200.7 REV 4.4       | SILVER           |
| EPA 200.7 REV 4.4       | SODIUM                          | EPA 200.7 REV 4.4       | ZINC             |
| EPA 200.8 REV 5.4       | ARSENIC                         | EPA 200.8 REV 5.4       | BARIUM           |
| EPA 200.8 REV 5.4       | BERYLLIUM                       | EPA 200.8 REV 5.4       | CADMIUM          |
| EPA 200.8 REV 5.4       | CHROMIUM                        | EPA 200.8 REV 5.4       | COPPER           |
| EPA 200.8 REV 5.4       | LEAD                            | EPA 200.8 REV 5.4       | NICKEL           |
| EPA 200.8 REV 5.4       | SELENIUM                        | EPA 200.8 REV 5.4       | SILVER           |
| EPA 200.8 REV 5.4       | ZINC                            | EPA 300.0 REV 2.1       | CHLORIDE         |
| EPA 300.0 REV 2.1       | FLUORIDE                        | EPA 300.0 REV 2.1       | NITRATE AS N     |
| EPA 300.0 REV 2.1       | NITRITE AS N                    | EPA 300.0 REV 2.1       | SULFATE          |
| SM 2320 B-2011          | ALKALINITY AS CaCO <sub>3</sub> | SM 2510 B-2011          | CONDUCTIVITY     |
| SM 2540 C-2011          | RESIDUE-FILTERABLE (TDS)        | SM 9223 COLILERT<br>MPN | ESCHERICHIA COLI |
| SM 9223 COLILERT<br>MPN | TOTAL COLIFORMS                 | SM 9223 COLILERT P/A    | ESCHERICHIA COLI |
| SM 9223 COLILERT P/A    | TOTAL COLIFORMS                 |                         |                  |

**BWXT Lynchburg Technology Center**  
Lynchburg, VA

Phone: (434) 522-5116  
DCLS Lab ID: 460127

Certificate No.: 10357

Certificate Expiration Date: 06/14/2020

| Method    | Analyte        | Method    | Analyte    |
|-----------|----------------|-----------|------------|
| EPA 900.0 | GROSS ALPHA    | EPA 900.0 | GROSS BETA |
| EPA 901.1 | BARIUM-133     | EPA 901.1 | CESIUM-134 |
| EPA 901.1 | CESIUM-137     | EPA 901.1 | COBALT-60  |
| EPA 901.1 | GAMMA EMITTERS | EPA 901.1 | ZINC 65    |
| EPA 906.0 | TRITIUM        |           |            |

**EnviroCompliance Laboratories, Inc. - Verona**  
Verona, VA

Phone: (804) 550-3971  
DCLS Lab ID: 460129

Certificate No.: 10301

Certificate Expiration Date: 06/14/2020

| Method            | Analyte         | Method                                      | Analyte                 |
|-------------------|-----------------|---|-------------------------|
| EPA 300.0 REV 2.1 | NITRATE AS N    | M-COLIBLUE24®                               | ESCHERICHIA COLI        |
| M-COLIBLUE24®     | TOTAL COLIFORMS | SM 4500-CL G-2011                           | TOTAL RESIDUAL CHLORINE |
| SM 4500-H+ B-2011 | PH              | SM 4500-NO <sub>2</sub> <sup>-</sup> B-2011 | NITRITE AS N            |

**Pace Analytical National Center for Testing & Innovation**  
Mount Juliet, TN

Phone: (615) 773-9755  
DCLS Lab ID: 460132

Certificate No.: 10302

Certificate Expiration Date: 06/14/2020

| Method            | Analyte         | Method            | Analyte         |
|-------------------|-----------------|-------------------|-----------------|
| ASTM D5174-97     | URANIUM         | EPA 150.1         | PH              |
| EPA 1622          | CRYPTOSPORIDIUM | EPA 1623          | CRYPTOSPORIDIUM |
| EPA 180.1 REV 2   | TURBIDITY       | EPA 200.7 REV 4.4 | ALUMINUM        |
| EPA 200.7 REV 4.4 | BARIUM          | EPA 200.7 REV 4.4 | BERYLLIUM       |
| EPA 200.7 REV 4.4 | CADMIUM         | EPA 200.7 REV 4.4 | CALCIUM         |
| EPA 200.7 REV 4.4 | CHROMIUM        | EPA 200.7 REV 4.4 | COPPER          |
| EPA 200.7 REV 4.4 | IRON            | EPA 200.7 REV 4.4 | MAGNESIUM       |
| EPA 200.7 REV 4.4 | MANGANESE       | EPA 200.7 REV 4.4 | NICKEL          |
| EPA 200.7 REV 4.4 | SILVER          | EPA 200.7 REV 4.4 | SODIUM          |

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|                                |  |                                |  |
|--------------------------------|--|--------------------------------|--|
| EPA 200.7 REV 4.4              | ZINC   | EPA 200.8 REV 5.4              | ANTIMONY                                   |
| EPA 200.8 REV 5.4              | ARSENIC  | EPA 200.8 REV 5.4              | BARIUM                                     |
| EPA 200.8 REV 5.4              | BERYLLIUM                                      | EPA 200.8 REV 5.4              | CADMIUM                                    |
| EPA 200.8 REV 5.4              | CHROMIUM                                       | EPA 200.8 REV 5.4              | COPPER                                     |
| EPA 200.8 REV 5.4              | LEAD   | EPA 200.8 REV 5.4              | MANGANESE                                  |
| EPA 200.8 REV 5.4              | NICKEL   | EPA 200.8 REV 5.4              | SELENIUM                                   |
| EPA 200.8 REV 5.4              | SILVER   | EPA 200.8 REV 5.4              | THALLIUM                                   |
| EPA 200.8 REV 5.4              | ZINC   | EPA 245.1 REV 3                | MERCURY                                    |
| EPA 300.0 REV 2.1              | BROMIDE  | EPA 300.0 REV 2.1              | CHLORIDE                                   |
| EPA 300.0 REV 2.1              | FLUORIDE                                       | EPA 300.0 REV 2.1              | NITRATE AS N                               |
| EPA 300.0 REV 2.1              | NITRITE AS N                                   | EPA 300.0 REV 2.1              | SULFATE                                    |
| EPA 335.4 REV 1.0              | CYANIDE  | EPA 353.2 REV 2                | NITRATE AS N                               |
| EPA 353.2 REV 2                | NITRITE AS N                                   | EPA 504.1 REV 1.1              | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)         |
| EPA 504.1 REV 1.1              | 1,2-DIBROMOETHANE (EDB, ETHYLENE<br>DIBROMIDE) | EPA 524.2 REV 4.1              | 1,1,1-TRICHLOROETHANE                      |
| EPA 524.2 REV 4.1              | 1,1,2-TRICHLOROETHANE                          | EPA 524.2 REV 4.1              | 1,1-DICHLOROETHYLENE                       |
| EPA 524.2 REV 4.1              | 1,2,4-TRICHLOROBENZENE                         | EPA 524.2 REV 4.1              | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE) |
| EPA 524.2 REV 4.1              | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE)    | EPA 524.2 REV 4.1              | 1,2-DICHLOROPROPANE                        |
| EPA 524.2 REV 4.1              | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)     | EPA 524.2 REV 4.1              | BENZENE                                    |
| EPA 524.2 REV 4.1              | BROMODICHLOROMETHANE                           | EPA 524.2 REV 4.1              | BROMOFORM                                  |
| EPA 524.2 REV 4.1              | CARBON TETRACHLORIDE                           | EPA 524.2 REV 4.1              | CHLOROBENZENE                              |
| EPA 524.2 REV 4.1              | CHLORODIBROMOMETHANE                           | EPA 524.2 REV 4.1              | CHLOROFORM                                 |
| EPA 524.2 REV 4.1              | CIS-1,2-DICHLOROETHYLENE                       | EPA 524.2 REV 4.1              | ETHYLBENZENE                               |
| EPA 524.2 REV 4.1              | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)        | EPA 524.2 REV 4.1              | STYRENE                                    |
| EPA 524.2 REV 4.1              | TETRACHLOROETHENE<br>(PERCHLOROETHENE)         | EPA 524.2 REV 4.1              | TOLUENE                                    |
| EPA 524.2 REV 4.1              | TRANS-1,2-DICHLOROETHENE                       | EPA 524.2 REV 4.1              | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)     |
| EPA 524.2 REV 4.1              | VINYL CHLORIDE (CHLOROETHENE)                  | EPA 524.2 REV 4.1              | XYLENE (TOTAL)                             |
| EPA 552.2 REV 1                | BROMOACETIC ACID                               | EPA 552.2 REV 1                | CHLOROACETIC ACID                          |
| EPA 552.2 REV 1                | DIBROMOACETIC ACID                             | EPA 552.2 REV 1                | DICHLOROACETIC ACID                        |
| EPA 552.2 REV 1                | TRICHLOROACETIC ACID (TCAA)                    | EPA 900.0                      | GROSS ALPHA                                |
| EPA 900.0                      | GROSS BETA                                     | EPA 901.1                      | GAMMA EMITTERS                             |
| EPA 904.0                      | RADIUM-228                                     | EPA 905.0                      | STRONTIUM-90                               |
| SM 2120 B-2011                 | COLOR  | SM 2130 B-2011                 | TURBIDITY                                  |
| SM 2150 B-2011                 | ODOR   | SM 2320 B-2011                 | ALKALINITY AS CaCO <sub>3</sub>            |
| SM 2510 B-2011                 | CONDUCTIVITY                                   | SM 2540 C-2011                 | RESIDUE-FILTERABLE (TDS)                   |
| SM 4110 B-2011                 | CHLORIDE                                       | SM 4110 B-2011                 | FLUORIDE                                   |
| SM 4110 B-2011                 | NITRATE AS N                                   | SM 4110 B-2011                 | NITRITE AS N                               |
| SM 4110 B-2011                 | SULFATE  | SM 4500-CL G-2011              | RESIDUAL FREE CHLORINE                     |
| SM 4500-CL G-2011              | TOTAL RESIDUAL CHLORINE                        | SM 4500-CN <sup>-</sup> C-2011 | PREP: CYANIDE DISTILLATION                 |
| SM 4500-CN <sup>-</sup> G-2011 | AMENABLE CYANIDE                               | SM 4500-H+ B-2011              | PH   |
| SM 4500-P E-2011               | ORTHOPHOSPHATE AS P                            | SM 5310 C-2011                 | DISSOLVED ORGANIC CARBON (DOC)             |
| SM 5310 C-2011                 | TOTAL ORGANIC CARBON (TOC)                     | SM 5540 C-2011                 | SURFACTANTS - MBAS                         |
| SM 5910 B-2011                 | UV 254   | SM 7500-RA B (GPC)<br>-2011    | RADIUM-226                                 |
| SM 9223 COLILERT<br>MPN        | ESCHERICHIA COLI                               | SM 9223 COLILERT P/A           | ESCHERICHIA COLI                           |
| SM 9223 COLILERT P/A           | TOTAL COLIFORMS                                |                                |  |



**Accredited Laboratories**  
**with Drinking Water Fields of Accreditation**  
**1 VAC 30 Chapter 46**  
**Effective: 07/09/2019**

**Schneider Laboratories Global, Inc.**  
 Richmond, VA

Phone: (804) 353-6778  
 DCLS Lab ID: 460135

Certificate No.: 10261

Certificate Expiration Date: 03/14/2020

| Method               | Analyte          | Method               | Analyte         |
|----------------------|------------------|----------------------|-----------------|
| EPA 200.7 REV 4.4    | ALUMINUM         | EPA 200.7 REV 4.4    | BARIUM          |
| EPA 200.7 REV 4.4    | CADMIUM          | EPA 200.7 REV 4.4    | CALCIUM         |
| EPA 200.7 REV 4.4    | CHROMIUM         | EPA 200.7 REV 4.4    | COPPER          |
| EPA 200.7 REV 4.4    | IRON             | EPA 200.7 REV 4.4    | MAGNESIUM       |
| EPA 200.7 REV 4.4    | MANGANESE        | EPA 200.7 REV 4.4    | NICKEL          |
| EPA 200.7 REV 4.4    | SILVER           | EPA 200.7 REV 4.4    | ZINC            |
| EPA 200.9 REV 2.2    | ANTIMONY         | EPA 200.9 REV 2.2    | ARSENIC         |
| EPA 200.9 REV 2.2    | BERYLLIUM        | EPA 200.9 REV 2.2    | CADMIUM         |
| EPA 200.9 REV 2.2    | CHROMIUM         | EPA 200.9 REV 2.2    | COPPER          |
| EPA 200.9 REV 2.2    | LEAD             | EPA 200.9 REV 2.2    | MANGANESE       |
| EPA 200.9 REV 2.2    | SILVER           | EPA 200.9 REV 2.2    | THALLIUM        |
| EPA 245.1 REV 3      | MERCURY          | EPA 300.0 REV 2.1    | CHLORIDE        |
| EPA 300.0 REV 2.1    | FLUORIDE         | EPA 300.0 REV 2.1    | NITRATE AS N    |
| EPA 300.0 REV 2.1    | NITRATE/NITRITE  | EPA 300.0 REV 2.1    | NITRITE AS N    |
| SM 9223 COLILERT MPN | ESCHERICHIA COLI | SM 9223 COLILERT MPN | TOTAL COLIFORMS |
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**Summit Environmental Technologies, Inc.**  
 Cuyahoga Falls, OH

Phone: (330) 253-8211  
 DCLS Lab ID: 460141

Certificate No.: 10381

Certificate Expiration Date: 06/14/2020

| Method            | Analyte   | Method                         | Analyte                         |
|-------------------|---|--------------------------------|---------------------------------|
| EPA 1613          | 2,3,7,8-TETRACHLORODIBENZO- P-DIOXIN (2,3,7,8-TCDD) | EPA 200.7 REV 4.4              | ALUMINUM                        |
| EPA 200.7 REV 4.4 | BARIUM  | EPA 200.7 REV 4.4              | BERYLLIUM                       |
| EPA 200.7 REV 4.4 | CADMIUM   | EPA 200.7 REV 4.4              | CALCIUM                         |
| EPA 200.7 REV 4.4 | CHROMIUM  | EPA 200.7 REV 4.4              | COPPER                          |
| EPA 200.7 REV 4.4 | IRON  | EPA 200.7 REV 4.4              | MANGANESE                       |
| EPA 200.7 REV 4.4 | NICKEL  | EPA 200.7 REV 4.4              | SILVER                          |
| EPA 200.7 REV 4.4 | SODIUM  | EPA 200.7 REV 4.4              | ZINC                            |
| EPA 200.8 REV 5.4 | ALUMINUM  | EPA 200.8 REV 5.4              | ANTIMONY                        |
| EPA 200.8 REV 5.4 | ARSENIC   | EPA 200.8 REV 5.4              | BARIUM                          |
| EPA 200.8 REV 5.4 | BERYLLIUM   | EPA 200.8 REV 5.4              | CADMIUM                         |
| EPA 200.8 REV 5.4 | CHROMIUM  | EPA 200.8 REV 5.4              | COPPER                          |
| EPA 200.8 REV 5.4 | LEAD  | EPA 200.8 REV 5.4              | MANGANESE                       |
| EPA 200.8 REV 5.4 | NICKEL  | EPA 200.8 REV 5.4              | SELENIUM                        |
| EPA 200.8 REV 5.4 | SILVER  | EPA 200.8 REV 5.4              | THALLIUM                        |
| EPA 200.8 REV 5.4 | URANIUM   | EPA 200.8 REV 5.4              | ZINC                            |
| EPA 245.1 REV 3   | MERCURY   | EPA 300.0 REV 2.1              | BROMIDE                         |
| EPA 300.0 REV 2.1 | CHLORIDE  | EPA 300.0 REV 2.1              | FLUORIDE                        |
| EPA 300.0 REV 2.1 | NITRATE AS N  | EPA 300.0 REV 2.1              | NITRITE AS N                    |
| EPA 300.0 REV 2.1 | ORTHOPHOSPHATE AS P                                 | EPA 300.0 REV 2.1              | SULFATE                         |
| EPA 300.1         | BROMATE   | EPA 300.1                      | BROMIDE                         |
| EPA 300.1         | CHLORITE  | SM 2320 B-2011                 | ALKALINITY AS CaCO <sub>3</sub> |
| SM 2540 C-2011    | RESIDUE-FILTERABLE (TDS)                            | SM 4500-CN <sup>-</sup> E-2011 | CYANIDE                         |
| SM 5310 B-2011    | TOTAL ORGANIC CARBON (TOC)                          |                                |                                 |

**Accredited Laboratories  
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1 VAC 30 Chapter 46  
Effective: 07/09/2019**

**Willoughby & Associates, Inc.**  
Forest, VA

Phone: (434) 534-9834  
DCLS Lab ID: 460143

Certificate No.: 10168

Certificate Expiration Date: 03/14/2020

| Method               | Analyte          | Method               | Analyte         |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**Environmental Conservation Laboratories, Inc. - Cary**  
Cary, NC

Phone: (919) 467-3090  
DCLS Lab ID: 460146

Certificate No.: 10280

Certificate Expiration Date: 06/14/2020

| Method            | Analyte  | Method                                | Analyte                                     |
|-------------------|--|---------------------------------------|---|
| EPA 180.1 REV 2   | TURBIDITY  | EPA 200.7 REV 4.4                     | ALUMINUM                                    |
| EPA 200.7 REV 4.4 | BARIUM   | EPA 200.7 REV 4.4                     | BERYLLIUM                                   |
| EPA 200.7 REV 4.4 | CADMIUM  | EPA 200.7 REV 4.4                     | CALCIUM                                     |
| EPA 200.7 REV 4.4 | CHROMIUM   | EPA 200.7 REV 4.4                     | COPPER                                      |
| EPA 200.7 REV 4.4 | IRON   | EPA 200.7 REV 4.4                     | MAGNESIUM                                   |
| EPA 200.7 REV 4.4 | MANGANESE  | EPA 200.7 REV 4.4                     | NICKEL                                      |
| EPA 200.7 REV 4.4 | SILICA AS SIO2                                   | EPA 200.7 REV 4.4                     | SILVER                                      |
| EPA 200.7 REV 4.4 | SODIUM   | EPA 200.7 REV 4.4                     | ZINC  |
| EPA 200.8 REV 5.4 | ALUMINUM   | EPA 200.8 REV 5.4                     | ANTIMONY                                    |
| EPA 200.8 REV 5.4 | ARSENIC  | EPA 200.8 REV 5.4                     | BARIUM                                      |
| EPA 200.8 REV 5.4 | BERYLLIUM  | EPA 200.8 REV 5.4                     | CADMIUM                                     |
| EPA 200.8 REV 5.4 | CHROMIUM   | EPA 200.8 REV 5.4                     | COPPER                                      |
| EPA 200.8 REV 5.4 | LEAD   | EPA 200.8 REV 5.4                     | MANGANESE                                   |
| EPA 200.8 REV 5.4 | NICKEL   | EPA 200.8 REV 5.4                     | SELENIUM                                    |
| EPA 200.8 REV 5.4 | SILVER   | EPA 200.8 REV 5.4                     | THALLIUM                                    |
| EPA 200.8 REV 5.4 | URANIUM  | EPA 200.8 REV 5.4                     | ZINC  |
| EPA 245.1 REV 3   | MERCURY  | EPA 300.0 REV 2.1                     | BROMIDE                                     |
| EPA 300.0 REV 2.1 | CHLORIDE   | EPA 300.0 REV 2.1                     | FLUORIDE                                    |
| EPA 300.0 REV 2.1 | NITRATE AS N                                     | EPA 300.0 REV 2.1                     | NITRATE/NITRITE                             |
| EPA 300.0 REV 2.1 | NITRITE AS N                                     | EPA 300.0 REV 2.1                     | ORTHOPHOSPHATE AS P                         |
| EPA 300.0 REV 2.1 | SULFATE  | EPA 335.4 REV 1.0 (AS SEAL EPA-130-A) | CYANIDE                                     |
| EPA 353.2 REV 2   | NITRATE AS N                                     | EPA 353.2 REV 2                       | NITRATE/NITRITE                             |
| EPA 353.2 REV 2   | NITRITE AS N                                     | EPA 365.1 REV 2 (AS SEAL EPA-118-A)   | ORTHOPHOSPHATE AS P                         |
| EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)               | EPA 504.1 REV 1.1                     | 1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE) |
| EPA 505 REV 2.1   | ALACHLOR   | EPA 505 REV 2.1                       | ATRAZINE                                    |
| EPA 505 REV 2.1   | CHLORDANE, TOTAL                                 | EPA 505 REV 2.1                       | ENDRIN                                      |
| EPA 505 REV 2.1   | GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE) | EPA 505 REV 2.1                       | HEPTACHLOR                                  |
| EPA 505 REV 2.1   | HEPTACHLOR EPOXIDE                               | EPA 505 REV 2.1                       | HEXACHLOROBENZENE                           |
| EPA 505 REV 2.1   | HEXACHLOROCYCLOPENTADIENE                        | EPA 505 REV 2.1                       | METHOXYCHLOR                                |
| EPA 505 REV 2.1   | SIMAZINE   | EPA 505 REV 2.1                       | TOXAPHENE (CHLORINATED CAMPHENE)            |
| EPA 515.4 REV 1   | 2,4-D  | EPA 515.4 REV 1                       | DALAPON                                     |
| EPA 515.4 REV 1   | DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)    | EPA 515.4 REV 1                       | PENTACHLOROPHENOL                           |
| EPA 515.4 REV 1   | PICLORAM   | EPA 515.4 REV 1                       | SILVEX (2,4,5-TP)                           |
| EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                            | EPA 524.2 REV 4.1                     | 1,1,2-TRICHLOROETHANE                       |
| EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                             | EPA 524.2 REV 4.1                     | 1,2,4-TRICHLOROBENZENE                      |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)          | EPA 524.2 REV 4.1                     | 1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)    |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE                              |                                       |   |

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|---|---|---|--|
| EPA 524.2 REV 4.1                           | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)            | EPA 524.2 REV 4.1                           | BENZENE  |
| EPA 524.2 REV 4.1                           | BROMODICHLOROMETHANE                                  | EPA 524.2 REV 4.1                           | BROMOFORM  |
| EPA 524.2 REV 4.1                           | CARBON TETRACHLORIDE                                  | EPA 524.2 REV 4.1                           | CHLOROBENZENE  |
| EPA 524.2 REV 4.1                           | CHLORODIBROMOMETHANE                                  | EPA 524.2 REV 4.1                           | CHLOROFORM   |
| EPA 524.2 REV 4.1                           | CIS-1,2-DICHLOROETHYLENE                              | EPA 524.2 REV 4.1                           | ETHYLBENZENE   |
| EPA 524.2 REV 4.1                           | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)               | EPA 524.2 REV 4.1                           | STYRENE  |
| EPA 524.2 REV 4.1                           | TETRACHLOROETHENE<br>(PERCHLOROETHENE)                | EPA 524.2 REV 4.1                           | TOLUENE  |
| EPA 524.2 REV 4.1                           | TRANS-1,2-DICHLOROETHENE                              | EPA 524.2 REV 4.1                           | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)                             |
| EPA 524.2 REV 4.1                           | VINYL CHLORIDE (CHLOROETHENE)                         | EPA 524.2 REV 4.1                           | XYLENE (TOTAL)   |
| EPA 525.2 REV 2                             | BENZO(A)PYRENE  | EPA 525.2 REV 2                             | BIS(2-ETHYLHEXYL) PHTHALATE<br>(DI(2-ETHYLHEXYL)PHTHALATE), (DEHP) |
| EPA 525.2 REV 2                             | BIS(2-ETHYLHEXYL)ADIPATE<br>(DI(2-ETHYLHEXYL)ADIPATE) | EPA 531.1 REV 3.1                           | CARBOFURAN (FURADEN)   |
| EPA 531.1 REV 3.1                           | OXAMYL  | EPA 552.2 REV 1                             | BROMOACETIC ACID   |
| EPA 552.2 REV 1                             | CHLOROACETIC ACID                                     | EPA 552.2 REV 1                             | DIBROMOACETIC ACID   |
| EPA 552.2 REV 1                             | DICHLOROACETIC ACID                                   | EPA 552.2 REV 1                             | HALOACETIC ACIDS - FIVE (HAA5)                                     |
| EPA 552.2 REV 1                             | TRICHLOROACETIC ACID (TCAA)                           | MODIFIED COLITAG®                           | ESCHERICHIA COLI   |
| MODIFIED COLITAG®                           | TOTAL COLIFORMS                                       | SM 2120 B-2011                              | COLOR  |
| SM 2130 B-2011                              | TURBIDITY   | SM 2320 B-2011                              | ALKALINITY AS CaCO <sub>3</sub>                                    |
| SM 2510 B-2011                              | CONDUCTIVITY  | SM 2540 C-2011                              | RESIDUE-FILTERABLE (TDS)   |
| SM 4500-CN <sup>-</sup> E-2011              | CYANIDE   | SM 4500-H+ B-2011                           | PH   |
| SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011 | NITRATE AS N  | SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011 | NITRATE/NITRITE  |
| SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011 | NITRITE AS N  | SM 9223 COLISURE®                           | ESCHERICHIA COLI   |
| SM 9223 COLISURE®                           | TOTAL COLIFORMS                                       |   |  |

**Pace Analytical Services, LLC - Beaver WV**  
Beaver, WV

Phone: (304) 255-2500  
DCLS Lab ID: 460148

Certificate No.: 10254

Certificate Expiration Date: 06/14/2020

| <b>Method</b>     | <b>Analyte</b>      | <b>Method</b>     | <b>Analyte</b>                  |
|-------------------|---------------------|-------------------|---------------------------------|
| EPA 180.1 REV 2   | TURBIDITY           | EPA 200.7 REV 4.4 | ALUMINUM                        |
| EPA 200.7 REV 4.4 | CALCIUM             | EPA 200.7 REV 4.4 | IRON                            |
| EPA 200.7 REV 4.4 | MAGNESIUM           | EPA 200.7 REV 4.4 | MANGANESE                       |
| EPA 200.7 REV 4.4 | NICKEL              | EPA 200.7 REV 4.4 | SILVER                          |
| EPA 200.7 REV 4.4 | ZINC                | EPA 200.8 REV 5.4 | MANGANESE                       |
| EPA 200.8 REV 5.4 | NICKEL              | EPA 200.8 REV 5.4 | SILVER                          |
| EPA 200.8 REV 5.4 | ZINC                | EPA 300.0 REV 2.1 | CHLORIDE                        |
| EPA 300.0 REV 2.1 | ORTHOPHOSPHATE AS P | EPA 300.0 REV 2.1 | SULFATE                         |
| SM 2120 B-2011    | COLOR               | SM 2320 B-2011    | ALKALINITY AS CaCO <sub>3</sub> |
| SM 2510 B-2011    | CONDUCTIVITY        | SM 2540 C-2011    | RESIDUE-FILTERABLE (TDS)        |
| SM 4500-H+ B-2011 | PH                  | SM 5310 C-2011    | TOTAL ORGANIC CARBON (TOC)      |

**Pace Analytical Services, LLC - Lexington VA**  
Lexington, VA

Phone: (304) 255-2500  
DCLS Lab ID: 460150

Certificate No.: 10170

Certificate Expiration Date: 03/14/2020

| <b>Method</b>     | <b>Analyte</b>            | <b>Method</b>     | <b>Analyte</b>   |
|-------------------|---------------------------|-------------------|------------------|
| SIMPLATE          | HETEROTROPHIC PLATE COUNT | SM 9223 COLISURE® | ESCHERICHIA COLI |
| SM 9223 COLISURE® | TOTAL COLIFORMS           |                   |                  |

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Effective: 07/09/2019**

**Testamerica Nashville**

Nashville, TN

Certificate No.: 10391

Certificate Expiration Date: 06/14/2020

Phone: (615) 301-5739

DCLS Lab ID: 460152

| Method            | Analyte  | Method            | Analyte                                    |
|-------------------|--|-------------------|--|
| EPA 200.7 REV 4.4 | ALUMINUM                                       | EPA 200.7 REV 4.4 | BARIUM                                     |
| EPA 200.7 REV 4.4 | BERYLLIUM                                      | EPA 200.7 REV 4.4 | CADMIUM                                    |
| EPA 200.7 REV 4.4 | CALCIUM  | EPA 200.7 REV 4.4 | CHROMIUM                                   |
| EPA 200.7 REV 4.4 | COPPER   | EPA 200.7 REV 4.4 | IRON                                       |
| EPA 200.7 REV 4.4 | MAGNESIUM                                      | EPA 200.7 REV 4.4 | MANGANESE                                  |
| EPA 200.7 REV 4.4 | NICKEL   | EPA 200.7 REV 4.4 | SILVER                                     |
| EPA 200.7 REV 4.4 | SODIUM   | EPA 200.7 REV 4.4 | ZINC                                       |
| EPA 245.1 REV 3   | MERCURY  | EPA 300.0 REV 2.1 | CHLORIDE                                   |
| EPA 300.0 REV 2.1 | FLUORIDE                                       | EPA 300.0 REV 2.1 | NITRATE AS N                               |
| EPA 300.0 REV 2.1 | NITRITE AS N                                   | EPA 300.0 REV 2.1 | SULFATE                                    |
| EPA 335.4 REV 1.0 | CYANIDE  | EPA 353.2 REV 2   | NITRATE AS N                               |
| EPA 353.2 REV 2   | NITRITE AS N                                   | EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)         |
| EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE<br>DIBROMIDE) | EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                      |
| EPA 524.2 REV 4.1 | 1,1,2-TRICHLOROETHANE                          | EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                       |
| EPA 524.2 REV 4.1 | 1,2,4-TRICHLOROBENZENE                         | EPA 524.2 REV 4.1 | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE) |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE)    | EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE                        |
| EPA 524.2 REV 4.1 | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)     | EPA 524.2 REV 4.1 | BENZENE                                    |
| EPA 524.2 REV 4.1 | BROMODICHLOROMETHANE                           | EPA 524.2 REV 4.1 | BROMOFORM                                  |
| EPA 524.2 REV 4.1 | CARBON TETRACHLORIDE                           | EPA 524.2 REV 4.1 | CHLOROBENZENE                              |
| EPA 524.2 REV 4.1 | CHLORODIBROMOMETHANE                           | EPA 524.2 REV 4.1 | CHLOROFORM                                 |
| EPA 524.2 REV 4.1 | CIS-1,2-DICHLOROETHYLENE                       | EPA 524.2 REV 4.1 | ETHYLBENZENE                               |
| EPA 524.2 REV 4.1 | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)        | EPA 524.2 REV 4.1 | STYRENE                                    |
| EPA 524.2 REV 4.1 | TETRACHLOROETHENE<br>(PERCHLOROETHENE)         | EPA 524.2 REV 4.1 | TOLUENE                                    |
| EPA 524.2 REV 4.1 | TRANS-1,2-DICHLOROETHENE                       | EPA 524.2 REV 4.1 | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)     |
| EPA 524.2 REV 4.1 | VINYL CHLORIDE (CHLOROETHENE)                  | EPA 524.2 REV 4.1 | XYLENE (TOTAL)                             |
| SM 2540 C-2011    | RESIDUE-FILTERABLE (TDS)                       | SM 4110 B-2011    | FLUORIDE                                   |
| SM 4110 B-2011    | NITRATE AS N                                   | SM 4110 B-2011    | NITRITE AS N                               |
| SM 4110 B-2011    | SULFATE  |                   |  |

**Phase Separation Science, Inc**

Baltimore, MD

Certificate No.: 10500

Certificate Expiration Date: 06/14/2020

Phone: (410) 747-8770

DCLS Lab ID: 460156

| Method            | Analyte   | Method            | Analyte   |
|-------------------|-----------|-------------------|-----------|
| EPA 180.1 REV 2   | TURBIDITY | EPA 200.8 REV 5.4 | ALUMINUM  |
| EPA 200.8 REV 5.4 | ANTIMONY  | EPA 200.8 REV 5.4 | ARSENIC   |
| EPA 200.8 REV 5.4 | BARIUM    | EPA 200.8 REV 5.4 | BERYLLIUM |
| EPA 200.8 REV 5.4 | CADMIUM   | EPA 200.8 REV 5.4 | CHROMIUM  |
| EPA 200.8 REV 5.4 | COPPER    | EPA 200.8 REV 5.4 | LEAD      |
| EPA 200.8 REV 5.4 | MANGANESE | EPA 200.8 REV 5.4 | MERCURY   |
| EPA 200.8 REV 5.4 | NICKEL    | EPA 200.8 REV 5.4 | SELENIUM  |
| EPA 200.8 REV 5.4 | SILVER    | EPA 200.8 REV 5.4 | THALLIUM  |
| EPA 200.8 REV 5.4 | ZINC      | EPA 300.0 REV 2.1 | CHLORIDE  |

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|-------------------|--|--------------------------------|---|
| EPA 300.0 REV 2.1 | FLUORIDE                                   | EPA 300.0 REV 2.1              | NITRATE AS N                                |
| EPA 300.0 REV 2.1 | NITRITE AS N                               | EPA 300.0 REV 2.1              | SULFATE                                     |
| EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                      | EPA 524.2 REV 4.1              | 1,1,2-TRICHLOROETHANE                       |
| EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                       | EPA 524.2 REV 4.1              | 1,2,4-TRICHLOROBENZENE                      |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE) | EPA 524.2 REV 4.1              | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE) |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE                        | EPA 524.2 REV 4.1              | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)  |
| EPA 524.2 REV 4.1 | BENZENE                                    | EPA 524.2 REV 4.1              | BROMODICHLOROMETHANE                        |
| EPA 524.2 REV 4.1 | BROMOFORM                                  | EPA 524.2 REV 4.1              | CARBON TETRACHLORIDE                        |
| EPA 524.2 REV 4.1 | CHLOROBENZENE                              | EPA 524.2 REV 4.1              | CHLORODIBROMOMETHANE                        |
| EPA 524.2 REV 4.1 | CHLOROFORM                                 | EPA 524.2 REV 4.1              | CIS-1,2-DICHLOROETHYLENE                    |
| EPA 524.2 REV 4.1 | ETHYLBENZENE                               | EPA 524.2 REV 4.1              | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)     |
| EPA 524.2 REV 4.1 | STYRENE                                    | EPA 524.2 REV 4.1              | TETRACHLOROETHENE<br>(PERCHLOROETHENE)      |
| EPA 524.2 REV 4.1 | TOLUENE                                    | EPA 524.2 REV 4.1              | TOTAL TRIHALOMETHANES (TTHMS)               |
| EPA 524.2 REV 4.1 | TRANS-1,2-DICHLOROETHENE                   | EPA 524.2 REV 4.1              | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)      |
| EPA 524.2 REV 4.1 | VINYL CHLORIDE (CHLOROETHENE)              | EPA 524.2 REV 4.1              | XYLENE (TOTAL)                              |
| SM 2320 B-2011    | ALKALINITY AS CaCO <sub>3</sub>            | SM 2510 B-2011                 | CONDUCTIVITY                                |
| SM 2540 C-2011    | RESIDUE-FILTERABLE (TDS)                   | SM 4500-CL G-2011              | RESIDUAL FREE CHLORINE                      |
| SM 4500-CL G-2011 | TOTAL RESIDUAL CHLORINE                    | SM 4500-CN <sup>-</sup> E-2011 | CYANIDE                                     |
| SM 4500-H+ B-2011 | PH   |                                |   |

**ALS Environmental- Middletown**

Middletown, PA

Certificate No.: 10506

Certificate Expiration Date: 06/14/2020

Phone: (717) 944-5541

DCLS Lab ID: 460157

| <b>Method</b>     | <b>Analyte</b>                                 | <b>Method</b>     | <b>Analyte</b>                     |
|-------------------|--|-------------------|------------------------------------|
| EPA 200.7 REV 4.4 | ALUMINUM                                       | EPA 200.7 REV 4.4 | BARIUM                             |
| EPA 200.7 REV 4.4 | CADMIUM  | EPA 200.7 REV 4.4 | CALCIUM                            |
| EPA 200.7 REV 4.4 | CHROMIUM                                       | EPA 200.7 REV 4.4 | COPPER                             |
| EPA 200.7 REV 4.4 | IRON   | EPA 200.7 REV 4.4 | MAGNESIUM                          |
| EPA 200.7 REV 4.4 | MANGANESE                                      | EPA 200.7 REV 4.4 | NICKEL                             |
| EPA 200.7 REV 4.4 | SILVER   | EPA 200.7 REV 4.4 | SODIUM                             |
| EPA 200.7 REV 4.4 | ZINC   | EPA 200.8 REV 5.4 | ALUMINUM                           |
| EPA 200.8 REV 5.4 | ANTIMONY                                       | EPA 200.8 REV 5.4 | ARSENIC                            |
| EPA 200.8 REV 5.4 | BARIUM   | EPA 200.8 REV 5.4 | BERYLLIUM                          |
| EPA 200.8 REV 5.4 | CADMIUM  | EPA 200.8 REV 5.4 | CHROMIUM                           |
| EPA 200.8 REV 5.4 | COPPER   | EPA 200.8 REV 5.4 | LEAD                               |
| EPA 200.8 REV 5.4 | MANGANESE                                      | EPA 200.8 REV 5.4 | MERCURY                            |
| EPA 200.8 REV 5.4 | NICKEL   | EPA 200.8 REV 5.4 | SELENIUM                           |
| EPA 200.8 REV 5.4 | SILVER   | EPA 200.8 REV 5.4 | THALLIUM                           |
| EPA 200.8 REV 5.4 | URANIUM  | EPA 200.8 REV 5.4 | ZINC                               |
| EPA 245.1 REV 3   | MERCURY  | EPA 300.0 REV 2.1 | BROMIDE                            |
| EPA 300.0 REV 2.1 | CHLORIDE                                       | EPA 300.0 REV 2.1 | FLUORIDE                           |
| EPA 300.0 REV 2.1 | NITRATE AS N                                   | EPA 300.0 REV 2.1 | NITRATE/NITRITE                    |
| EPA 300.0 REV 2.1 | NITRITE AS N                                   | EPA 300.0 REV 2.1 | SULFATE                            |
| EPA 300.1         | BROMATE  | EPA 300.1         | BROMIDE                            |
| EPA 300.1         | CHLORITE                                       | EPA 335.4 REV 1.0 | CYANIDE                            |
| EPA 353.2 REV 2   | NITRATE/NITRITE                                | EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE<br>DIBROMIDE) | EPA 505 REV 2.1   | ALACHLOR                           |
| EPA 505 REV 2.1   | AROCLOR-1016 (PCB-1016)                        | EPA 505 REV 2.1   | AROCLOR-1221 (PCB-1221)            |
| EPA 505 REV 2.1   | AROCLOR-1232 (PCB-1232)                        | EPA 505 REV 2.1   | AROCLOR-1242 (PCB-1242)            |
| EPA 505 REV 2.1   | AROCLOR-1248 (PCB-1248)                        | EPA 505 REV 2.1   | AROCLOR-1254 (PCB-1254)            |

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|-------------------|---|---------------------------------|--|
| EPA 505 REV 2.1   | AROCLOR-1260 (PCB-1260)                               | EPA 505 REV 2.1                 | CHLORDANE, TOTAL   |
| EPA 505 REV 2.1   | ENDRIN  | EPA 505 REV 2.1                 | GAMMA-BHC (LINDANE,<br>GAMMA-HEXACHLOROCYCLOHEXANE)                |
| EPA 505 REV 2.1   | HEPTACHLOR  | EPA 505 REV 2.1                 | HEPTACHLOR EPOXIDE   |
| EPA 505 REV 2.1   | HEXACHLOROBENZENE                                     | EPA 505 REV 2.1                 | HEXACHLOROCYCLOPENTADIENE  |
| EPA 505 REV 2.1   | METHOXYCHLOR  | EPA 505 REV 2.1                 | TOXAPHENE (CHLORINATED CAMPHENE)                                   |
| EPA 515.3 REV 1   | 2,4-D   | EPA 515.3 REV 1                 | DALAPON  |
| EPA 515.3 REV 1   | DINOSEB<br>(2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)      | EPA 515.3 REV 1                 | PENTACHLOROPHENOL  |
| EPA 515.3 REV 1   | PICLORAM  | EPA 515.3 REV 1                 | SILVEX (2,4,5-TP)  |
| EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                                 | EPA 524.2 REV 4.1               | 1,1,2-TRICHLOROETHANE  |
| EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                                  | EPA 524.2 REV 4.1               | 1,2,4-TRICHLOROBENZENE   |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE)            | EPA 524.2 REV 4.1               | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE)                        |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE                                   | EPA 524.2 REV 4.1               | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)                         |
| EPA 524.2 REV 4.1 | BENZENE   | EPA 524.2 REV 4.1               | BROMODICHLOROMETHANE   |
| EPA 524.2 REV 4.1 | BROMOFORM   | EPA 524.2 REV 4.1               | CARBON TETRACHLORIDE   |
| EPA 524.2 REV 4.1 | CHLOROBENZENE   | EPA 524.2 REV 4.1               | CHLORODIBROMOMETHANE   |
| EPA 524.2 REV 4.1 | CHLOROFORM  | EPA 524.2 REV 4.1               | CIS-1,2-DICHLOROETHYLENE   |
| EPA 524.2 REV 4.1 | ETHYLBENZENE  | EPA 524.2 REV 4.1               | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)                            |
| EPA 524.2 REV 4.1 | STYRENE   | EPA 524.2 REV 4.1               | TETRACHLOROETHENE<br>(PERCHLOROETHENE)                             |
| EPA 524.2 REV 4.1 | TOLUENE   | EPA 524.2 REV 4.1               | TOTAL TRIHALOMETHANES (TTHMS)                                      |
| EPA 524.2 REV 4.1 | TRANS-1,2-DICHLOROETHENE                              | EPA 524.2 REV 4.1               | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)                             |
| EPA 524.2 REV 4.1 | VINYL CHLORIDE (CHLOROETHENE)                         | EPA 524.2 REV 4.1               | XYLENE (TOTAL)   |
| EPA 525.2 REV 2   | ALACHLOR  | EPA 525.2 REV 2                 | ATRAZINE   |
| EPA 525.2 REV 2   | BENZO(A)PYRENE  | EPA 525.2 REV 2                 | BIS(2-ETHYLHEXYL) PHTHALATE<br>(DI(2-ETHYLHEXYL)PHTHALATE), (DEHP) |
| EPA 525.2 REV 2   | BIS(2-ETHYLHEXYL)ADIPATE<br>(DI(2-ETHYLHEXYL)ADIPATE) | EPA 525.2 REV 2                 | ENDRIN   |
| EPA 525.2 REV 2   | GAMMA-BHC (LINDANE,<br>GAMMA-HEXACHLOROCYCLOHEXANE)   | EPA 525.2 REV 2                 | HEPTACHLOR   |
| EPA 525.2 REV 2   | HEPTACHLOR EPOXIDE                                    | EPA 525.2 REV 2                 | HEXACHLOROBENZENE  |
| EPA 525.2 REV 2   | HEXACHLOROCYCLOPENTADIENE                             | EPA 525.2 REV 2                 | METHOXYCHLOR   |
| EPA 525.2 REV 2   | SIMAZINE  | EPA 531.1 REV 3.1               | CARBOFURAN (FURADEN)   |
| EPA 531.1 REV 3.1 | OXAMYL  | EPA 547                         | GLYPHOSATE   |
| EPA 548.1 REV 1   | ENDOTHALL   | EPA 549.2 REV 1                 | DIQUAT   |
| EPA 552.2 REV 1   | BROMOACETIC ACID                                      | EPA 552.2 REV 1                 | CHLOROACETIC ACID  |
| EPA 552.2 REV 1   | DIBROMOACETIC ACID                                    | EPA 552.2 REV 1                 | DICHLOROACETIC ACID  |
| EPA 552.2 REV 1   | HALOACETIC ACIDS - FIVE (HAA5)                        | EPA 552.2 REV 1                 | TRICHLOROACETIC ACID (TCAA)  |
| KELADA-01         | CYANIDE   | SM 2120 B-2011                  | COLOR  |
| SM 2130 B-2011    | TURBIDITY   | SM 2150 B-2011                  | ODOR   |
| SM 2320 B-2011    | ALKALINITY AS CaCO3                                   | SM 2510 B-2011                  | CONDUCTIVITY   |
| SM 2540 C-2011    | RESIDUE-FILTERABLE (TDS)                              | SM 4500-CL G-2011               | RESIDUAL FREE CHLORINE   |
| SM 4500-CL G-2011 | TOTAL RESIDUAL CHLORINE                               | SM 4500-CN <sup>-</sup> G-2011  | AMENABLE CYANIDE   |
| SM 4500-H+ B-2011 | PH  | SM 4500-NO2 <sup>-</sup> B-2011 | NITRITE AS N   |
| SM 4500-P E-2011  | ORTHOPHOSPHATE AS P                                   | SM 4500-SIO2 C-2011             | SILICA AS SIO2   |
| SM 5310 B-2011    | DISSOLVED ORGANIC CARBON (DOC)                        | SM 5310 B-2011                  | TOTAL ORGANIC CARBON (TOC)   |
| SM 5540 C-2011    | SURFACTANTS - MBAS                                    | SM 5910 B-2011                  | UV 254   |

**Analytics Corporation**

Ashland, VA

Certificate No.: 10202

Certificate Expiration Date: 03/14/2020

Phone: (804) 365-3000

DCLS Lab ID: 460160

| Method          | Analyte   | Method            | Analyte  |
|-----------------|-----------|-------------------|----------|
| EPA 180.1 REV 2 | TURBIDITY | EPA 200.7 REV 4.4 | ALUMINUM |

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**Effective: 07/09/2019**

|   |   |   |   |
|---|---|---|---|
| EPA 200.7 REV 4.4   | BARIUM                                      | EPA 200.7 REV 4.4                           | CALCIUM                                 |
| EPA 200.7 REV 4.4   | CHROMIUM                                    | EPA 200.7 REV 4.4                           | COPPER                                  |
| EPA 200.7 REV 4.4   | IRON  | EPA 200.7 REV 4.4                           | MAGNESIUM                               |
| EPA 200.7 REV 4.4   | MANGANESE                                   | EPA 200.7 REV 4.4                           | NICKEL                                  |
| EPA 200.7 REV 4.4   | SILVER                                      | EPA 200.7 REV 4.4                           | SODIUM                                  |
| EPA 200.7 REV 4.4   | ZINC  | EPA 200.8 REV 5.4                           | ALUMINUM                                |
| EPA 200.8 REV 5.4   | ANTIMONY                                    | EPA 200.8 REV 5.4                           | ARSENIC                                 |
| EPA 200.8 REV 5.4   | BARIUM                                      | EPA 200.8 REV 5.4                           | BERYLLIUM                               |
| EPA 200.8 REV 5.4   | CADMIUM                                     | EPA 200.8 REV 5.4                           | CHROMIUM                                |
| EPA 200.8 REV 5.4   | COPPER                                      | EPA 200.8 REV 5.4                           | LEAD                                    |
| EPA 200.8 REV 5.4   | MANGANESE                                   | EPA 200.8 REV 5.4                           | MERCURY                                 |
| EPA 200.8 REV 5.4   | NICKEL                                      | EPA 200.8 REV 5.4                           | SELENIUM                                |
| EPA 200.8 REV 5.4   | SILVER                                      | EPA 200.8 REV 5.4                           | THALLIUM                                |
| EPA 200.8 REV 5.4   | ZINC  | EPA 245.2                                   | MERCURY                                 |
| EPA 300.0 REV 2.1   | CHLORIDE                                    | EPA 300.0 REV 2.1                           | FLUORIDE                                |
| EPA 300.0 REV 2.1   | NITRATE AS N                                | EPA 300.0 REV 2.1                           | NITRITE AS N                            |
| EPA 300.0 REV 2.1   | ORTHOPHOSPHATE AS P                         | EPA 300.0 REV 2.1                           | SULFATE                                 |
| EPA 365.1 REV 2 (AS HACH 8048)                                | ORTHOPHOSPHATE AS P                         | EPA 504.1 REV 1.1                           | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)      |
| EPA 504.1 REV 1.1   | 1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE) | EPA 524.2 REV 4.1                           | 1,1,1-TRICHLOROETHANE                   |
| EPA 524.2 REV 4.1   | 1,1,2-TRICHLOROETHANE                       | EPA 524.2 REV 4.1                           | 1,1-DICHLOROETHYLENE                    |
| EPA 524.2 REV 4.1   | 1,2,4-TRICHLOROBENZENE                      | EPA 524.2 REV 4.1                           | 1,2-DICHLOROBENZENE (O-DICHLOROBENZENE) |
| EPA 524.2 REV 4.1   | 1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)    | EPA 524.2 REV 4.1                           | 1,2-DICHLOROPROPANE                     |
| EPA 524.2 REV 4.1   | 1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)     | EPA 524.2 REV 4.1                           | BENZENE                                 |
| EPA 524.2 REV 4.1   | BROMODICHLOROMETHANE                        | EPA 524.2 REV 4.1                           | BROMOFORM                               |
| EPA 524.2 REV 4.1   | CARBON TETRACHLORIDE                        | EPA 524.2 REV 4.1                           | CHLOROBENZENE                           |
| EPA 524.2 REV 4.1   | CHLORODIBROMOMETHANE                        | EPA 524.2 REV 4.1                           | CHLOROFORM                              |
| EPA 524.2 REV 4.1   | CIS-1,2-DICHLOROETHYLENE                    | EPA 524.2 REV 4.1                           | ETHYLBENZENE                            |
| EPA 524.2 REV 4.1   | METHYLENE CHLORIDE (DICHLOROMETHANE)        | EPA 524.2 REV 4.1                           | STYRENE                                 |
| EPA 524.2 REV 4.1   | TETRACHLOROETHENE (PERCHLOROETHENE)         | EPA 524.2 REV 4.1                           | TOLUENE                                 |
| EPA 524.2 REV 4.1   | TOTAL TRIHALOMETHANES (TTHMS)               | EPA 524.2 REV 4.1                           | TRANS-1,2-DICHLOROETHENE                |
| EPA 524.2 REV 4.1   | TRICHLOROETHENE (TRICHLOROETHYLENE)         | EPA 524.2 REV 4.1                           | VINYL CHLORIDE (CHLOROETHENE)           |
| EPA 524.2 REV 4.1   | XYLENE (TOTAL)                              | SM 2120 B-2011                              | COLOR                                   |
| SM 2320 B-2011  | ALKALINITY AS CaCO <sub>3</sub>             | SM 2510 B-2011                              | CONDUCTIVITY                            |
| SM 2540 C-2011  | RESIDUE-FILTERABLE (TDS)                    | SM 4500-CN <sup>-</sup> C-2011              | PREP: CYANIDE DISTILLATION              |
| SM 4500-CN <sup>-</sup> E-2011                                | CYANIDE                                     | SM 4500-H <sup>+</sup> B-2011               | PH                                      |
| SM 4500-NO <sub>2</sub> <sup>-</sup> B-2011                   | NITRITE AS N                                | SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011 | NITRATE AS N                            |
| SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011 (AS ASTORIA A173) | NITRATE/NITRITE                             | SM 9215 B-2004                              | HETEROTROPHIC PLATE COUNT               |
| SM 9223 COLILERT-18 MPN                                       | ESCHERICHIA COLI                            | SM 9223 COLILERT-18 MPN                     | TOTAL COLIFORMS                         |
| SM 9223 COLISURE®   | ESCHERICHIA COLI                            | SM 9223 COLISURE®                           | TOTAL COLIFORMS                         |

**Testamerica Laboratories, Inc. - Savannah**  
Savannah, GA

Phone: (912) 354-7858  
DCLS Lab ID: 460161

Certificate No.: 10268

Certificate Expiration Date: 06/14/2020

| Method            | Analyte   | Method            | Analyte   |
|-------------------|-----------|-------------------|-----------|
| EPA 150.1         | PH        | EPA 180.1 REV 2   | TURBIDITY |
| EPA 200.7 REV 4.4 | ALUMINUM  | EPA 200.7 REV 4.4 | BARIUM    |
| EPA 200.7 REV 4.4 | BERYLLIUM | EPA 200.7 REV 4.4 | CADMIUM   |
| EPA 200.7 REV 4.4 | CALCIUM   | EPA 200.7 REV 4.4 | CHROMIUM  |

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Effective: 07/09/2019**

|                   |   |                   |  |
|-------------------|---|-------------------|--|
| EPA 200.7 REV 4.4 | COPPER  | EPA 200.7 REV 4.4 | IRON   |
| EPA 200.7 REV 4.4 | MAGNESIUM   | EPA 200.7 REV 4.4 | MANGANESE  |
| EPA 200.7 REV 4.4 | NICKEL  | EPA 200.7 REV 4.4 | SILICA AS SIO2   |
| EPA 200.7 REV 4.4 | SILVER  | EPA 200.7 REV 4.4 | SODIUM   |
| EPA 200.7 REV 4.4 | ZINC  | EPA 200.8 REV 5.4 | ALUMINUM   |
| EPA 200.8 REV 5.4 | ANTIMONY  | EPA 200.8 REV 5.4 | ARSENIC  |
| EPA 200.8 REV 5.4 | BARIUM  | EPA 200.8 REV 5.4 | BERYLLIUM  |
| EPA 200.8 REV 5.4 | CADMIUM   | EPA 200.8 REV 5.4 | CHROMIUM   |
| EPA 200.8 REV 5.4 | COPPER  | EPA 200.8 REV 5.4 | LEAD   |
| EPA 200.8 REV 5.4 | MANGANESE   | EPA 200.8 REV 5.4 | NICKEL   |
| EPA 200.8 REV 5.4 | SELENIUM  | EPA 200.8 REV 5.4 | SILVER   |
| EPA 200.8 REV 5.4 | THALLIUM  | EPA 200.8 REV 5.4 | ZINC   |
| EPA 245.1 REV 3   | MERCURY   | EPA 300.0 REV 2.1 | CHLORIDE   |
| EPA 300.0 REV 2.1 | FLUORIDE  | EPA 300.0 REV 2.1 | NITRATE AS N   |
| EPA 300.0 REV 2.1 | NITRATE/NITRITE                                       | EPA 300.0 REV 2.1 | NITRITE AS N   |
| EPA 300.0 REV 2.1 | SULFATE   | EPA 300.1         | BROMATE  |
| EPA 300.1         | BROMIDE   | EPA 300.1         | CHLORITE   |
| EPA 335.4 REV 1.0 | CYANIDE   | EPA 353.2 REV 2   | NITRATE AS N   |
| EPA 353.2 REV 2   | NITRATE/NITRITE                                       | EPA 353.2 REV 2   | NITRITE AS N   |
| EPA 365.1 REV 2   | ORTHOPHOSPHATE AS P                                   | EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)                                 |
| EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE<br>DIBROMIDE)        | EPA 508 REV 3.1   | CHLORDANE, TOTAL   |
| EPA 508 REV 3.1   | ENDRIN  | EPA 508 REV 3.1   | GAMMA-BHC (LINDANE,<br>GAMMA-HEXACHLOROCYCLOHEXANE)                |
| EPA 508 REV 3.1   | HEPTACHLOR  | EPA 508 REV 3.1   | HEPTACHLOR EPOXIDE   |
| EPA 508 REV 3.1   | METHOXYCHLOR  | EPA 508 REV 3.1   | PCBS, AS AROCLORS  |
| EPA 508 REV 3.1   | TOXAPHENE (CHLORINATED CAMPHENE)                      | EPA 515.1 REV 4   | 2,4-D  |
| EPA 515.1 REV 4   | DALAPON   | EPA 515.1 REV 4   | DINOSEB<br>(2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)                   |
| EPA 515.1 REV 4   | PENTACHLOROPHENOL                                     | EPA 515.1 REV 4   | PICLORAM   |
| EPA 515.1 REV 4   | SILVEX (2,4,5-TP)                                     | EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE  |
| EPA 524.2 REV 4.1 | 1,1,2-TRICHLOROETHANE                                 | EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE   |
| EPA 524.2 REV 4.1 | 1,2,4-TRICHLOROBENZENE                                | EPA 524.2 REV 4.1 | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE)                         |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE)           | EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE  |
| EPA 524.2 REV 4.1 | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)            | EPA 524.2 REV 4.1 | BENZENE  |
| EPA 524.2 REV 4.1 | BROMODICHLOROMETHANE                                  | EPA 524.2 REV 4.1 | BROMOFORM  |
| EPA 524.2 REV 4.1 | CARBON TETRACHLORIDE                                  | EPA 524.2 REV 4.1 | CHLOROBENZENE  |
| EPA 524.2 REV 4.1 | CHLORODIBROMOMETHANE                                  | EPA 524.2 REV 4.1 | CHLOROFORM   |
| EPA 524.2 REV 4.1 | CIS-1,2-DICHLOROETHYLENE                              | EPA 524.2 REV 4.1 | ETHYLBENZENE   |
| EPA 524.2 REV 4.1 | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)               | EPA 524.2 REV 4.1 | STYRENE  |
| EPA 524.2 REV 4.1 | TETRACHLOROETHENE<br>(PERCHLOROETHENE)                | EPA 524.2 REV 4.1 | TOLUENE  |
| EPA 524.2 REV 4.1 | TRANS-1,2-DICHLOROETHENE                              | EPA 524.2 REV 4.1 | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)                             |
| EPA 524.2 REV 4.1 | VINYL CHLORIDE (CHLOROETHENE)                         | EPA 524.2 REV 4.1 | XYLENE (TOTAL)   |
| EPA 525.2 REV 2   | ALACHLOR  | EPA 525.2 REV 2   | ATRAZINE   |
| EPA 525.2 REV 2   | BENZO(A)PYRENE  | EPA 525.2 REV 2   | BIS(2-ETHYLHEXYL) PHTHALATE<br>(DI(2-ETHYLHEXYL)PHTHALATE), (DEHP) |
| EPA 525.2 REV 2   | BIS(2-ETHYLHEXYL)ADIPATE<br>(DI(2-ETHYLHEXYL)ADIPATE) | EPA 525.2 REV 2   | ENDRIN   |
| EPA 525.2 REV 2   | GAMMA-BHC (LINDANE,<br>GAMMA-HEXACHLOROCYCLOHEXANE)   | EPA 525.2 REV 2   | HEPTACHLOR   |
| EPA 525.2 REV 2   | HEPTACHLOR EPOXIDE                                    | EPA 525.2 REV 2   | HEXACHLOROBENZENE  |
| EPA 525.2 REV 2   | HEXACHLOROCYCLOPENTADIENE                             | EPA 525.2 REV 2   | METHOXYCHLOR   |
| EPA 525.2 REV 2   | SIMAZINE  | EPA 531.1 REV 3.1 | CARBOFURAN (FURADEN)   |
| EPA 531.1 REV 3.1 | OXAMYL  | EPA 547           | GLYPHOSATE   |
| EPA 548.1 REV 1   | ENDOTHALL   | EPA 549.2 REV 1   | DIQUAT   |



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**1 VAC 30 Chapter 46**

**Effective: 07/09/2019**

|                                |                                |                                |                                 |
|--------------------------------|--------------------------------|--------------------------------|---------------------------------|
| EPA 552.2 REV 1                | BROMOACETIC ACID               | EPA 552.2 REV 1                | CHLOROACETIC ACID               |
| EPA 552.2 REV 1                | DIBROMOACETIC ACID             | EPA 552.2 REV 1                | DICHLOROACETIC ACID             |
| EPA 552.2 REV 1                | HALOACETIC ACIDS - FIVE (HAA5) | EPA 552.2 REV 1                | TRICHLOROACETIC ACID (TCAA)     |
| SM 2120 B-2011                 | COLOR                          | SM 2130 B-2011                 | TURBIDITY                       |
| SM 2150 B-2011                 | ODOR                           | SM 2320 B-2011                 | ALKALINITY AS CaCO <sub>3</sub> |
| SM 2510 B-2011                 | CONDUCTIVITY                   | SM 2540 C-2011                 | RESIDUE-FILTERABLE (TDS)        |
| SM 4500-CN <sup>-</sup> E-2011 | CYANIDE                        | SM 4500-CN <sup>-</sup> G-2011 | AMENABLE CYANIDE                |
| SM 4500-H+ B-2011              | PH                             | SM 5310 B-2011                 | DISSOLVED ORGANIC CARBON (DOC)  |
| SM 5310 B-2011                 | TOTAL ORGANIC CARBON (TOC)     | SM 5910 B-2011                 | UV 254                          |

**Geochemical Testing**

Somerset, PA

Certificate No.: 10245

Certificate Expiration Date: 06/14/2020

Phone: (814) 443-1671

DCLS Lab ID: 460162

| <b>Method</b>     | <b>Analyte</b>                             | <b>Method</b>                               | <b>Analyte</b>                              |
|-------------------|--|---|---|
| EPA 180.1 REV 2   | TURBIDITY                                  | EPA 200.7 REV 4.4                           | ALUMINUM                                    |
| EPA 200.7 REV 4.4 | BARIUM                                     | EPA 200.7 REV 4.4                           | CADMIUM                                     |
| EPA 200.7 REV 4.4 | CHROMIUM                                   | EPA 200.7 REV 4.4                           | COPPER                                      |
| EPA 200.7 REV 4.4 | IRON                                       | EPA 200.7 REV 4.4                           | MANGANESE                                   |
| EPA 200.7 REV 4.4 | NICKEL                                     | EPA 200.7 REV 4.4                           | SILVER                                      |
| EPA 200.7 REV 4.4 | SODIUM                                     | EPA 200.7 REV 4.4                           | ZINC  |
| EPA 200.8 REV 5.4 | ANTIMONY                                   | EPA 200.8 REV 5.4                           | ARSENIC                                     |
| EPA 200.8 REV 5.4 | BARIUM                                     | EPA 200.8 REV 5.4                           | BERYLLIUM                                   |
| EPA 200.8 REV 5.4 | CADMIUM                                    | EPA 200.8 REV 5.4                           | CHROMIUM                                    |
| EPA 200.8 REV 5.4 | COPPER                                     | EPA 200.8 REV 5.4                           | LEAD  |
| EPA 200.8 REV 5.4 | NICKEL                                     | EPA 200.8 REV 5.4                           | SELENIUM                                    |
| EPA 200.8 REV 5.4 | SILVER                                     | EPA 200.8 REV 5.4                           | THALLIUM                                    |
| EPA 300.0 REV 2.1 | FLUORIDE                                   | EPA 300.0 REV 2.1                           | NITRATE AS N                                |
| EPA 300.0 REV 2.1 | NITRITE AS N                               | EPA 300.0 REV 2.1                           | SULFATE                                     |
| EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                      | EPA 524.2 REV 4.1                           | 1,1,2-TRICHLOROETHANE                       |
| EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                       | EPA 524.2 REV 4.1                           | 1,2,4-TRICHLOROBENZENE                      |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE) | EPA 524.2 REV 4.1                           | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE) |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE                        | EPA 524.2 REV 4.1                           | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)  |
| EPA 524.2 REV 4.1 | BENZENE                                    | EPA 524.2 REV 4.1                           | BROMODICHLOROMETHANE                        |
| EPA 524.2 REV 4.1 | BROMOFORM                                  | EPA 524.2 REV 4.1                           | CARBON TETRACHLORIDE                        |
| EPA 524.2 REV 4.1 | CHLOROBENZENE                              | EPA 524.2 REV 4.1                           | CHLORODIBROMOMETHANE                        |
| EPA 524.2 REV 4.1 | CHLOROFORM                                 | EPA 524.2 REV 4.1                           | CIS-1,2-DICHLOROETHYLENE                    |
| EPA 524.2 REV 4.1 | ETHYLBENZENE                               | EPA 524.2 REV 4.1                           | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)     |
| EPA 524.2 REV 4.1 | STYRENE                                    | EPA 524.2 REV 4.1                           | TETRACHLOROETHENE<br>(PERCHLOROETHENE)      |
| EPA 524.2 REV 4.1 | TOLUENE                                    | EPA 524.2 REV 4.1                           | TRANS-1,2-DICHLOROETHENE                    |
| EPA 524.2 REV 4.1 | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)     | EPA 524.2 REV 4.1                           | VINYL CHLORIDE (CHLOROETHENE)               |
| EPA 524.2 REV 4.1 | XYLENE (TOTAL)                             | EPA 552.2 REV 1                             | BROMOACETIC ACID                            |
| EPA 552.2 REV 1   | CHLOROACETIC ACID                          | EPA 552.2 REV 1                             | DIBROMOACETIC ACID                          |
| EPA 552.2 REV 1   | DICHLOROACETIC ACID                        | EPA 552.2 REV 1                             | TRICHLOROACETIC ACID (TCAA)                 |
| SM 2320 B-2011    | ALKALINITY AS CaCO <sub>3</sub>            | SM 2510 B-2011                              | CONDUCTIVITY                                |
| SM 2540 C-2011    | RESIDUE-FILTERABLE (TDS)                   | SM 3112 B-2011                              | MERCURY                                     |
| SM 4500-H+ B-2011 | PH   | SM 4500-NO <sub>2</sub> <sup>-</sup> B-2011 | NITRITE AS N                                |
| SM 5310 C-2011    | TOTAL ORGANIC CARBON (TOC)                 |   |   |

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**1 VAC 30 Chapter 46**  
**Effective: 07/09/2019**

**Pace Analytical Services, LLC-Minneapolis MN**  
 Minneapolis, MN

Phone: (612) 607-6352  
 DCLS Lab ID: 460163

Certificate No.: 10304

Certificate Expiration Date: 06/14/2020

| Method            | Analyte  | Method            | Analyte   |
|-------------------|--|-------------------|-----------|
| EPA 1613          | 2,3,7,8-TETRACHLORODIBENZO- P-DIOXIN<br>(2,3,7,8-TCDD) | EPA 200.8 REV 5.4 | ALUMINUM  |
| EPA 200.8 REV 5.4 | ANTIMONY   | EPA 200.8 REV 5.4 | ARSENIC   |
| EPA 200.8 REV 5.4 | BARIUM   | EPA 200.8 REV 5.4 | BERYLLIUM |
| EPA 200.8 REV 5.4 | CADMIUM  | EPA 200.8 REV 5.4 | CHROMIUM  |
| EPA 200.8 REV 5.4 | COPPER   | EPA 200.8 REV 5.4 | LEAD      |
| EPA 200.8 REV 5.4 | MANGANESE  | EPA 200.8 REV 5.4 | NICKEL    |
| EPA 200.8 REV 5.4 | SELENIUM   | EPA 200.8 REV 5.4 | SILVER    |
| EPA 200.8 REV 5.4 | THALLIUM   | EPA 200.8 REV 5.4 | URANIUM   |
| EPA 200.8 REV 5.4 | ZINC   | EPA 245.1 REV 3   | MERCURY   |

**Pace Analytical Services, LLC- Ormond Beach FL**  
 Ormond Beach, FL

Phone: (386) 676-4803  
 DCLS Lab ID: 460165

Certificate No.: 10305

Certificate Expiration Date: 06/14/2020

| Method            | Analyte  | Method            | Analyte   |
|-------------------|--|-------------------|---|
| EPA 180.1 REV 2   | TURBIDITY                                      | EPA 200.7 REV 4.4 | ALUMINUM  |
| EPA 200.7 REV 4.4 | BARIUM   | EPA 200.7 REV 4.4 | BERYLLIUM   |
| EPA 200.7 REV 4.4 | CADMIUM  | EPA 200.7 REV 4.4 | CALCIUM   |
| EPA 200.7 REV 4.4 | CHROMIUM                                       | EPA 200.7 REV 4.4 | COPPER  |
| EPA 200.7 REV 4.4 | IRON   | EPA 200.7 REV 4.4 | MAGNESIUM   |
| EPA 200.7 REV 4.4 | MANGANESE                                      | EPA 200.7 REV 4.4 | NICKEL  |
| EPA 200.7 REV 4.4 | SILICA AS SIO2                                 | EPA 200.7 REV 4.4 | SILVER  |
| EPA 200.7 REV 4.4 | SODIUM   | EPA 200.7 REV 4.4 | ZINC  |
| EPA 200.8 REV 5.4 | ALUMINUM                                       | EPA 200.8 REV 5.4 | ANTIMONY  |
| EPA 200.8 REV 5.4 | ARSENIC  | EPA 200.8 REV 5.4 | BARIUM  |
| EPA 200.8 REV 5.4 | BERYLLIUM                                      | EPA 200.8 REV 5.4 | CADMIUM   |
| EPA 200.8 REV 5.4 | CHROMIUM                                       | EPA 200.8 REV 5.4 | COPPER  |
| EPA 200.8 REV 5.4 | LEAD   | EPA 200.8 REV 5.4 | MANGANESE   |
| EPA 200.8 REV 5.4 | NICKEL   | EPA 200.8 REV 5.4 | SELENIUM  |
| EPA 200.8 REV 5.4 | SILVER   | EPA 200.8 REV 5.4 | THALLIUM  |
| EPA 200.8 REV 5.4 | URANIUM  | EPA 200.8 REV 5.4 | ZINC  |
| EPA 245.1 REV 3   | MERCURY  | EPA 300.0 REV 2.1 | BROMIDE   |
| EPA 300.0 REV 2.1 | CHLORIDE                                       | EPA 300.0 REV 2.1 | FLUORIDE  |
| EPA 300.0 REV 2.1 | NITRATE AS N                                   | EPA 300.0 REV 2.1 | NITRATE/NITRITE                                     |
| EPA 300.0 REV 2.1 | NITRITE AS N                                   | EPA 300.0 REV 2.1 | ORTHOPHOSPHATE AS P                                 |
| EPA 300.0 REV 2.1 | SULFATE  | EPA 300.1         | BROMATE   |
| EPA 300.1         | BROMIDE  | EPA 300.1         | CHLORITE  |
| EPA 335.4 REV 1.0 | CYANIDE  | EPA 353.2 REV 2   | NITRATE AS N  |
| EPA 353.2 REV 2   | NITRATE/NITRITE                                | EPA 353.2 REV 2   | NITRITE AS N  |
| EPA 365.1 REV 2   | ORTHOPHOSPHATE AS P                            | EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)                  |
| EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE<br>DIBROMIDE) | EPA 508.1 REV 2   | ALACHLOR  |
| EPA 508.1 REV 2   | AROCLOR-1016 (PCB-1016)                        | EPA 508.1 REV 2   | AROCLOR-1221 (PCB-1221)                             |
| EPA 508.1 REV 2   | AROCLOR-1232 (PCB-1232)                        | EPA 508.1 REV 2   | AROCLOR-1242 (PCB-1242)                             |
| EPA 508.1 REV 2   | AROCLOR-1248 (PCB-1248)                        | EPA 508.1 REV 2   | AROCLOR-1254 (PCB-1254)                             |
| EPA 508.1 REV 2   | AROCLOR-1260 (PCB-1260)                        | EPA 508.1 REV 2   | CHLORDANE, TOTAL                                    |
| EPA 508.1 REV 2   | ENDRIN   | EPA 508.1 REV 2   | GAMMA-BHC (LINDANE,<br>GAMMA-HEXACHLOROCYCLOHEXANE) |

**Accredited Laboratories  
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**Effective: 07/09/2019**

|                   |   |                   |  |
|-------------------|---|-------------------|--|
| EPA 508.1 REV 2   | HEPTACHLOR  | EPA 508.1 REV 2   | HEPTACHLOR EPOXIDE   |
| EPA 508.1 REV 2   | HEXACHLOROBENZENE                                     | EPA 508.1 REV 2   | HEXACHLOROCYCLOPENTADIENE  |
| EPA 508.1 REV 2   | METHOXYCHLOR  | EPA 508.1 REV 2   | SIMAZINE   |
| EPA 508.1 REV 2   | TOXAPHENE (CHLORINATED CAMPHENE)                      | EPA 515.3 REV 1   | 2,4-D  |
| EPA 515.3 REV 1   | DALAPON   | EPA 515.3 REV 1   | DINOSEB<br>(2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)                   |
| EPA 515.3 REV 1   | PENTACHLOROPHENOL                                     | EPA 515.3 REV 1   | PICLORAM   |
| EPA 515.3 REV 1   | SILVEX (2,4,5-TP)                                     | EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE  |
| EPA 524.2 REV 4.1 | 1,1,2-TRICHLOROETHANE                                 | EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE   |
| EPA 524.2 REV 4.1 | 1,2,4-TRICHLOROETHANE                                 | EPA 524.2 REV 4.1 | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE)                         |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE)           | EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE  |
| EPA 524.2 REV 4.1 | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)            | EPA 524.2 REV 4.1 | BENZENE  |
| EPA 524.2 REV 4.1 | BROMODICHLOROMETHANE                                  | EPA 524.2 REV 4.1 | BROMOFORM  |
| EPA 524.2 REV 4.1 | CARBON TETRACHLORIDE                                  | EPA 524.2 REV 4.1 | CHLOROBENZENE  |
| EPA 524.2 REV 4.1 | CHLORODIBROMOMETHANE                                  | EPA 524.2 REV 4.1 | CHLOROFORM   |
| EPA 524.2 REV 4.1 | CIS-1,2-DICHLOROETHYLENE                              | EPA 524.2 REV 4.1 | ETHYLBENZENE   |
| EPA 524.2 REV 4.1 | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)               | EPA 524.2 REV 4.1 | STYRENE  |
| EPA 524.2 REV 4.1 | TETRACHLOROETHENE<br>(PERCHLOROETHENE)                | EPA 524.2 REV 4.1 | TOLUENE  |
| EPA 524.2 REV 4.1 | TOTAL TRIHALOMETHANES (TTHMS)                         | EPA 524.2 REV 4.1 | TRANS-1,2-DICHLOROETHENE   |
| EPA 524.2 REV 4.1 | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)                | EPA 524.2 REV 4.1 | VINYL CHLORIDE (CHLOROETHENE)                                      |
| EPA 524.2 REV 4.1 | XYLENE (TOTAL)  | EPA 525.2 REV 2   | ATRAZINE   |
| EPA 525.2 REV 2   | BENZO(A)PYRENE  | EPA 525.2 REV 2   | BIS(2-ETHYLHEXYL) PHTHALATE<br>(DI(2-ETHYLHEXYL)PHTHALATE), (DEHP) |
| EPA 525.2 REV 2   | BIS(2-ETHYLHEXYL)ADIPATE<br>(DI(2-ETHYLHEXYL)ADIPATE) | EPA 531.1 REV 3.1 | CARBOFURAN (FURADEN)   |
| EPA 531.1 REV 3.1 | OXAMYL  | EPA 531.2 REV 1   | CARBOFURAN (FURADEN)   |
| EPA 531.2 REV 1   | OXAMYL  | EPA 547           | GLYPHOSATE   |
| EPA 548.1 REV 1   | ENDOTHALL   | EPA 549.2 REV 1   | DIQUAT   |
| EPA 552.2 REV 1   | BROMOACETIC ACID                                      | EPA 552.2 REV 1   | CHLOROACETIC ACID  |
| EPA 552.2 REV 1   | DIBROMOACETIC ACID                                    | EPA 552.2 REV 1   | DICHLOROACETIC ACID  |
| EPA 552.2 REV 1   | HALOACETIC ACIDS - FIVE (HAA5)                        | EPA 552.2 REV 1   | TRICHLOROACETIC ACID (TCAA)  |
| EPA 552.3 REV 1   | BROMOACETIC ACID                                      | EPA 552.3 REV 1   | CHLOROACETIC ACID  |
| EPA 552.3 REV 1   | DIBROMOACETIC ACID                                    | EPA 552.3 REV 1   | DICHLOROACETIC ACID  |
| EPA 552.3 REV 1   | HALOACETIC ACIDS - FIVE (HAA5)                        | EPA 552.3 REV 1   | TRICHLOROACETIC ACID (TCAA)  |
| SM 2120 B-2011    | COLOR   | SM 2150 B-2011    | ODOR   |
| SM 2320 B-2011    | ALKALINITY AS CaCO3                                   | SM 2510 B-2011    | CONDUCTIVITY   |
| SM 2540 C-2011    | RESIDUE-FILTERABLE (TDS)                              | SM 5310 B-2011    | DISSOLVED ORGANIC CARBON (DOC)                                     |
| SM 5310 B-2011    | TOTAL ORGANIC CARBON (TOC)                            | SM 5540 C-2011    | SURFACTANTS - MBAS   |
| SM 5910 B-2011    | UV 254  |                   |  |

**Environmental Hazards Services, L L C**  
Richmond, VA

Certificate No.: 10048

Certificate Expiration Date: 12/14/2019

Phone: (804) 275-4788  
DCLS Lab ID: 460172

| <b>Method</b>  | <b>Analyte</b> | <b>Method</b>  | <b>Analyte</b> |
|----------------|----------------|----------------|----------------|
| SM 3113 B-2010 | COPPER         | SM 3113 B-2010 | LEAD           |

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Effective: 07/09/2019**

**SGS - Dayton**  
Dayton, NJ

Phone: (732) 329-0200  
DCLS Lab ID: 460174

Certificate No.: 10133

Certificate Expiration Date: 09/14/2019

| Method            | Analyte                                 | Method                          | Analyte                                     |
|-------------------|---|---------------------------------|---|
| EPA 180.1 REV 2   | TURBIDITY                               | EPA 200.7 REV 4.4               | ALUMINUM                                    |
| EPA 200.7 REV 4.4 | BARIUM                                  | EPA 200.7 REV 4.4               | BERYLLIUM                                   |
| EPA 200.7 REV 4.4 | CADMIUM                                 | EPA 200.7 REV 4.4               | CHROMIUM                                    |
| EPA 200.7 REV 4.4 | COPPER                                  | EPA 200.7 REV 4.4               | IRON  |
| EPA 200.7 REV 4.4 | MAGNESIUM                               | EPA 200.7 REV 4.4               | MANGANESE                                   |
| EPA 200.7 REV 4.4 | NICKEL                                  | EPA 200.7 REV 4.4               | SILICA AS SIO2                              |
| EPA 200.7 REV 4.4 | SILVER                                  | EPA 200.7 REV 4.4               | SODIUM                                      |
| EPA 200.7 REV 4.4 | ZINC                                    | EPA 200.8 REV 5.4               | ALUMINUM                                    |
| EPA 200.8 REV 5.4 | ANTIMONY                                | EPA 200.8 REV 5.4               | ARSENIC                                     |
| EPA 200.8 REV 5.4 | BARIUM                                  | EPA 200.8 REV 5.4               | BERYLLIUM                                   |
| EPA 200.8 REV 5.4 | CADMIUM                                 | EPA 200.8 REV 5.4               | CHROMIUM                                    |
| EPA 200.8 REV 5.4 | COPPER                                  | EPA 200.8 REV 5.4               | LEAD  |
| EPA 200.8 REV 5.4 | MANGANESE                               | EPA 200.8 REV 5.4               | NICKEL                                      |
| EPA 200.8 REV 5.4 | SELENIUM                                | EPA 200.8 REV 5.4               | SILVER                                      |
| EPA 200.8 REV 5.4 | THALLIUM                                | EPA 200.8 REV 5.4               | ZINC  |
| EPA 245.1 REV 3   | MERCURY                                 | EPA 300.0 REV 2.1               | CHLORIDE                                    |
| EPA 300.0 REV 2.1 | FLUORIDE                                | EPA 300.0 REV 2.1               | SULFATE                                     |
| EPA 335.4 REV 1.0 | CYANIDE                                 | EPA 353.2 REV 2                 | NITRATE AS N                                |
| EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)      | EPA 504.1 REV 1.1               | 1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE) |
| EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                   | EPA 524.2 REV 4.1               | 1,1,2-TRICHLOROETHANE                       |
| EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                    | EPA 524.2 REV 4.1               | 1,2,4-TRICHLOROBENZENE                      |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROBENZENE (O-DICHLOROBENZENE) | EPA 524.2 REV 4.1               | 1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)    |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE                     | EPA 524.2 REV 4.1               | 1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)     |
| EPA 524.2 REV 4.1 | BENZENE                                 | EPA 524.2 REV 4.1               | BROMODICHLOROMETHANE                        |
| EPA 524.2 REV 4.1 | BROMOFORM                               | EPA 524.2 REV 4.1               | CARBON TETRACHLORIDE                        |
| EPA 524.2 REV 4.1 | CHLOROBENZENE                           | EPA 524.2 REV 4.1               | CHLORODIBROMOMETHANE                        |
| EPA 524.2 REV 4.1 | CHLOROFORM                              | EPA 524.2 REV 4.1               | CIS-1,2-DICHLOROETHYLENE                    |
| EPA 524.2 REV 4.1 | ETHYLBENZENE                            | EPA 524.2 REV 4.1               | METHYLENE CHLORIDE (DICHLOROMETHANE)        |
| EPA 524.2 REV 4.1 | STYRENE                                 | EPA 524.2 REV 4.1               | TETRACHLOROETHENE (PERCHLOROETHENE)         |
| EPA 524.2 REV 4.1 | TOLUENE                                 | EPA 524.2 REV 4.1               | TRANS-1,2-DICHLOROETHENE                    |
| EPA 524.2 REV 4.1 | TRICHLOROETHENE (TRICHLOROETHYLENE)     | EPA 524.2 REV 4.1               | VINYL CHLORIDE (CHLOROETHENE)               |
| EPA 524.2 REV 4.1 | XYLENE (TOTAL)                          | SM 2120 B-2011                  | COLOR                                       |
| SM 2150 B-2011    | ODOR                                    | SM 2320 B-2011                  | ALKALINITY AS CaCO3                         |
| SM 2510 B-2011    | CONDUCTIVITY                            | SM 2540 C-2011                  | RESIDUE-FILTERABLE (TDS)                    |
| SM 4500-H+ B-2011 | PH                                      | SM 4500-NO2 <sup>-</sup> B-2011 | NITRITE AS N                                |
| SM 4500-P E-2011  | ORTHOPHOSPHATE AS P                     | SM 5310 B-2011                  | DISSOLVED ORGANIC CARBON (DOC)              |
| SM 5310 B-2011    | TOTAL ORGANIC CARBON (TOC)              | SM 5540 C-2011                  | SURFACTANTS - MBAS                          |

**Testamerica Laboratories Inc. - Knoxville**  
Knoxville, TN

Phone: (865) 291-3000  
DCLS Lab ID: 460176

Certificate No.: 9941

Certificate Expiration Date: 09/14/2019

| Method | Analyte | Method | Analyte |
|--------|---------|--------|---------|
|--------|---------|--------|---------|

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Effective: 07/09/2019**

EPA 1613

2,3,7,8-TETRACHLORODIBENZO- P-DIOXIN  
(2,3,7,8-TCDD)

**SGS - Orlando**

Orlando, FL

Certificate No.: 10034

Phone: (407) 425-6700

DCLS Lab ID: 460177

Certificate Expiration Date: 09/14/2019

| Method            | Analyte                            | Method            | Analyte                                     |
|-------------------|------------------------------------|-------------------|---|
| EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) | EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE) |

**Eurofins Lancaster Laboratories Environmental, LLC**

Lancaster, PA

Certificate No.: 10358

Phone:

DCLS Lab ID: 460182

Certificate Expiration Date: 06/14/2020

| Method            | Analyte  | Method            | Analyte   |
|-------------------|--|-------------------|---|
| EPA 200.7 REV 4.4 | ALUMINUM   | EPA 200.7 REV 4.4 | BARIUM  |
| EPA 200.7 REV 4.4 | CALCIUM  | EPA 200.7 REV 4.4 | CHROMIUM  |
| EPA 200.7 REV 4.4 | COPPER   | EPA 200.7 REV 4.4 | IRON  |
| EPA 200.7 REV 4.4 | MAGNESIUM  | EPA 200.7 REV 4.4 | MANGANESE   |
| EPA 200.7 REV 4.4 | NICKEL   | EPA 200.7 REV 4.4 | SILVER  |
| EPA 200.7 REV 4.4 | SODIUM   | EPA 200.7 REV 4.4 | ZINC  |
| EPA 200.8 REV 5.4 | ANTIMONY   | EPA 200.8 REV 5.4 | ARSENIC   |
| EPA 200.8 REV 5.4 | BERYLLIUM  | EPA 200.8 REV 5.4 | CADMIUM   |
| EPA 200.8 REV 5.4 | CHROMIUM   | EPA 200.8 REV 5.4 | COPPER  |
| EPA 200.8 REV 5.4 | IRON   | EPA 200.8 REV 5.4 | LEAD  |
| EPA 200.8 REV 5.4 | MANGANESE  | EPA 200.8 REV 5.4 | NICKEL  |
| EPA 200.8 REV 5.4 | SELENIUM   | EPA 200.8 REV 5.4 | THALLIUM  |
| EPA 200.8 REV 5.4 | ZINC   | EPA 245.1 REV 3   | MERCURY   |
| EPA 300.0 REV 2.1 | CHLORIDE   | EPA 300.0 REV 2.1 | FLUORIDE  |
| EPA 300.0 REV 2.1 | NITRATE AS N   | EPA 300.0 REV 2.1 | NITRITE AS N  |
| EPA 300.0 REV 2.1 | SULFATE  | EPA 335.4 REV 1.0 | CYANIDE   |
| EPA 353.2 REV 2   | NITRATE AS N   | EPA 353.2 REV 2   | NITRATE/NITRITE                                       |
| EPA 353.2 REV 2   | NITRITE AS N   | EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                                 |
| EPA 524.2 REV 4.1 | 1,1,2-TRICHLOROETHANE  | EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                                  |
| EPA 524.2 REV 4.1 | 1,2,4-TRICHLOROBENZENE   | EPA 524.2 REV 4.1 | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE)            |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE)                        | EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE                                   |
| EPA 524.2 REV 4.1 | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)                         | EPA 524.2 REV 4.1 | BENZENE   |
| EPA 524.2 REV 4.1 | BROMODICHLOROMETHANE   | EPA 524.2 REV 4.1 | BROMOFORM   |
| EPA 524.2 REV 4.1 | CARBON TETRACHLORIDE   | EPA 524.2 REV 4.1 | CHLOROBENZENE   |
| EPA 524.2 REV 4.1 | CHLORODIBROMOMETHANE   | EPA 524.2 REV 4.1 | CHLOROFORM  |
| EPA 524.2 REV 4.1 | CIS-1,2-DICHLOROETHYLENE   | EPA 524.2 REV 4.1 | ETHYLBENZENE  |
| EPA 524.2 REV 4.1 | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)                            | EPA 524.2 REV 4.1 | STYRENE   |
| EPA 524.2 REV 4.1 | TETRACHLOROETHENE<br>(PERCHLOROETHENE)                             | EPA 524.2 REV 4.1 | TOLUENE   |
| EPA 524.2 REV 4.1 | TOTAL TRIHALOMETHANES (TTHMS)                                      | EPA 524.2 REV 4.1 | TRANS-1,2-DICHLOROETHENE                              |
| EPA 524.2 REV 4.1 | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)                             | EPA 524.2 REV 4.1 | VINYL CHLORIDE (CHLOROETHENE)                         |
| EPA 524.2 REV 4.1 | XYLENE (TOTAL)   | EPA 525.2 REV 2   | ALACHLOR  |
| EPA 525.2 REV 2   | ATRAZINE   | EPA 525.2 REV 2   | BENZO(A)PYRENE  |
| EPA 525.2 REV 2   | BIS(2-ETHYLHEXYL) PHTHALATE<br>(DI(2-ETHYLHEXYL)PHTHALATE), (DEHP) | EPA 525.2 REV 2   | BIS(2-ETHYLHEXYL)ADIPATE<br>(DI(2-ETHYLHEXYL)ADIPATE) |

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|                   |                            |                               |   |
|-------------------|----------------------------|-------------------------------|---|
| EPA 525.2 REV 2   | ENDRIN                     | EPA 525.2 REV 2               | GAMMA-BHC (LINDANE,<br>GAMMA-HEXACHLOROCYCLOHEXANE) |
| EPA 525.2 REV 2   | HEPTACHLOR                 | EPA 525.2 REV 2               | HEPTACHLOR EPOXIDE                                  |
| EPA 525.2 REV 2   | HEXACHLORO BENZENE         | EPA 525.2 REV 2               | HEXACHLOROCYCLOPENTADIENE                           |
| EPA 525.2 REV 2   | METHOXYCHLOR               | EPA 525.2 REV 2               | SIMAZINE  |
| EPA 531.1 REV 3.1 | CARBOFURAN (FURADEN)       | EPA 531.1 REV 3.1             | OXAMYL  |
| SM 2120 B-2011    | COLOR                      | SM 2130 B-2011                | TURBIDITY   |
| SM 2320 B-2011    | ALKALINITY AS CaCO3        | SM 2510 B-2011                | CONDUCTIVITY  |
| SM 2540 C-2011    | RESIDUE-FILTERABLE (TDS)   | SM 4500-F <sup>-</sup> C-2011 | FLUORIDE  |
| SM 4500-H+ B-2011 | PH                         | SM 4500-P E-2011              | ORTHOPHOSPHATE AS P                                 |
| SM 5310 C-2011    | TOTAL ORGANIC CARBON (TOC) | SM 5540 C-2011                | SURFACTANTS - MBAS                                  |

**E M S L Analytical, Inc.**  
Cinnaminson, NJ

Certificate No.: 10007

Certificate Expiration Date: 09/14/2019

Phone: (856) 858-4800  
DCLS Lab ID: 460184

| <b>Method</b>     | <b>Analyte</b>                                 | <b>Method</b>     | <b>Analyte</b>                             |
|-------------------|--|-------------------|--|
| EPA 150.1         | PH   | EPA 1623.1        | CRYPTOSPORIDIUM                            |
| EPA 180.1 REV 2   | TURBIDITY                                      | EPA 200.7 REV 4.4 | ALUMINUM                                   |
| EPA 200.7 REV 4.4 | BARIUM   | EPA 200.7 REV 4.4 | CADMIUM                                    |
| EPA 200.7 REV 4.4 | CALCIUM  | EPA 200.7 REV 4.4 | CHROMIUM                                   |
| EPA 200.7 REV 4.4 | COPPER   | EPA 200.7 REV 4.4 | IRON                                       |
| EPA 200.7 REV 4.4 | MAGNESIUM                                      | EPA 200.7 REV 4.4 | MANGANESE                                  |
| EPA 200.7 REV 4.4 | NICKEL   | EPA 200.7 REV 4.4 | SILICA AS SiO2                             |
| EPA 200.7 REV 4.4 | SILVER   | EPA 200.7 REV 4.4 | SODIUM                                     |
| EPA 200.7 REV 4.4 | ZINC   | EPA 200.8 REV 5.4 | ALUMINUM                                   |
| EPA 200.8 REV 5.4 | ANTIMONY                                       | EPA 200.8 REV 5.4 | ARSENIC                                    |
| EPA 200.8 REV 5.4 | BARIUM   | EPA 200.8 REV 5.4 | BERYLLIUM                                  |
| EPA 200.8 REV 5.4 | CADMIUM  | EPA 200.8 REV 5.4 | CHROMIUM                                   |
| EPA 200.8 REV 5.4 | COPPER   | EPA 200.8 REV 5.4 | LEAD                                       |
| EPA 200.8 REV 5.4 | MANGANESE                                      | EPA 200.8 REV 5.4 | NICKEL                                     |
| EPA 200.8 REV 5.4 | SELENIUM                                       | EPA 200.8 REV 5.4 | SILVER                                     |
| EPA 200.8 REV 5.4 | THALLIUM                                       | EPA 200.8 REV 5.4 | ZINC                                       |
| EPA 200.9 REV 2.2 | LEAD   | EPA 245.1 REV 3   | MERCURY                                    |
| EPA 300.0 REV 2.1 | BROMIDE  | EPA 300.0 REV 2.1 | CHLORIDE                                   |
| EPA 300.0 REV 2.1 | FLUORIDE                                       | EPA 300.0 REV 2.1 | NITRATE AS N                               |
| EPA 300.0 REV 2.1 | NITRITE AS N                                   | EPA 300.0 REV 2.1 | ORTHOPHOSPHATE AS P                        |
| EPA 300.0 REV 2.1 | SULFATE  | EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)         |
| EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE<br>DIBROMIDE) | EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                      |
| EPA 524.2 REV 4.1 | 1,1,2-TRICHLOROETHANE                          | EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                       |
| EPA 524.2 REV 4.1 | 1,2,4-TRICHLOROBENZENE                         | EPA 524.2 REV 4.1 | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE) |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE)    | EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE                        |
| EPA 524.2 REV 4.1 | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)     | EPA 524.2 REV 4.1 | BENZENE                                    |
| EPA 524.2 REV 4.1 | BROMODICHLOROMETHANE                           | EPA 524.2 REV 4.1 | BROMOFORM                                  |
| EPA 524.2 REV 4.1 | CARBON TETRACHLORIDE                           | EPA 524.2 REV 4.1 | CHLOROBENZENE                              |
| EPA 524.2 REV 4.1 | CHLORODIBROMOMETHANE                           | EPA 524.2 REV 4.1 | CHLOROFORM                                 |
| EPA 524.2 REV 4.1 | CIS-1,2-DICHLOROETHYLENE                       | EPA 524.2 REV 4.1 | ETHYLBENZENE                               |
| EPA 524.2 REV 4.1 | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)        | EPA 524.2 REV 4.1 | STYRENE                                    |
| EPA 524.2 REV 4.1 | TETRACHLOROETHENE<br>(PERCHLOROETHENE)         | EPA 524.2 REV 4.1 | TOLUENE                                    |
| EPA 524.2 REV 4.1 | TRANS-1,2-DICHLOROETHENE                       | EPA 524.2 REV 4.1 | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)     |
| EPA 524.2 REV 4.1 | VINYL CHLORIDE (CHLOROETHENE)                  | EPA 524.2 REV 4.1 | XYLENE (TOTAL)                             |

**Accredited Laboratories  
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**1 VAC 30 Chapter 46**

**Effective: 07/09/2019**

|                   |                                 |                                |                        |
|-------------------|---------------------------------|--------------------------------|------------------------|
| EPA 900.0         | GROSS ALPHA                     | EPA 900.0                      | GROSS BETA             |
| EPA 903.0         | RADIUM-226                      | EPA 904.0                      | RADIUM-228             |
| EPA 906.0         | TRITIUM                         | EPA 908.0                      | URANIUM                |
| SM 2120 B-2011    | COLOR                           | SM 2130 B-2011                 | TURBIDITY              |
| SM 2320 B-2011    | ALKALINITY AS CaCO <sub>3</sub> | SM 2510 B-2011                 | CONDUCTIVITY           |
| SM 2540 C-2011    | RESIDUE-FILTERABLE (TDS)        | SM 4500-CL G-2011              | RESIDUAL FREE CHLORINE |
| SM 4500-CL G-2011 | TOTAL RESIDUAL CHLORINE         | SM 4500-CN <sup>-</sup> E-2011 | CYANIDE                |
| SM 4500-H+ B-2011 | PH                              | SM 5540 C-2011                 | SURFACTANTS - MBAS     |

**Testamerica Buffalo**  
Amherst, NY

Phone: (716) 504-9832  
DCLS Lab ID: 460185

Certificate No.: 10180

Certificate Expiration Date: 09/14/2019

| <b>Method</b>     | <b>Analyte</b>                              | <b>Method</b>     | <b>Analyte</b>                          |
|-------------------|---|-------------------|---|
| ASTM D516-11      | SULFATE                                     | EPA 180.1 REV 2   | TURBIDITY                               |
| EPA 200.7 REV 4.4 | ALUMINUM                                    | EPA 200.7 REV 4.4 | BARIIUM                                 |
| EPA 200.7 REV 4.4 | BERYLLIUM                                   | EPA 200.7 REV 4.4 | CADMIUM                                 |
| EPA 200.7 REV 4.4 | CALCIUM                                     | EPA 200.7 REV 4.4 | CHROMIUM                                |
| EPA 200.7 REV 4.4 | COPPER                                      | EPA 200.7 REV 4.4 | IRON                                    |
| EPA 200.7 REV 4.4 | MAGNESIUM                                   | EPA 200.7 REV 4.4 | MANGANESE                               |
| EPA 200.7 REV 4.4 | NICKEL                                      | EPA 200.7 REV 4.4 | SILVER                                  |
| EPA 200.7 REV 4.4 | SODIUM                                      | EPA 200.7 REV 4.4 | ZINC                                    |
| EPA 200.8 REV 5.4 | ANTIMONY                                    | EPA 200.8 REV 5.4 | ARSENIC                                 |
| EPA 200.8 REV 5.4 | BARIIUM                                     | EPA 200.8 REV 5.4 | BERYLLIUM                               |
| EPA 200.8 REV 5.4 | CADMIUM                                     | EPA 200.8 REV 5.4 | CHROMIUM                                |
| EPA 200.8 REV 5.4 | COPPER                                      | EPA 200.8 REV 5.4 | LEAD                                    |
| EPA 200.8 REV 5.4 | MANGANESE                                   | EPA 200.8 REV 5.4 | NICKEL                                  |
| EPA 200.8 REV 5.4 | SELENIUM                                    | EPA 200.8 REV 5.4 | SILVER                                  |
| EPA 200.8 REV 5.4 | THALLIUM                                    | EPA 200.8 REV 5.4 | ZINC                                    |
| EPA 245.1 REV 3   | MERCURY                                     | EPA 300.0 REV 2.1 | CHLORIDE                                |
| EPA 300.0 REV 2.1 | FLUORIDE                                    | EPA 300.0 REV 2.1 | SULFATE                                 |
| EPA 353.2 REV 2   | NITRITE AS N                                | EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)      |
| EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE) | EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                   |
| EPA 524.2 REV 4.1 | 1,1,2-TRICHLOROETHANE                       | EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                    |
| EPA 524.2 REV 4.1 | 1,2,4-TRICHLOROBENZENE                      | EPA 524.2 REV 4.1 | 1,2-DICHLOROBENZENE (O-DICHLOROBENZENE) |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)    | EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE                     |
| EPA 524.2 REV 4.1 | 1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)     | EPA 524.2 REV 4.1 | BENZENE                                 |
| EPA 524.2 REV 4.1 | BROMODICHLOROMETHANE                        | EPA 524.2 REV 4.1 | BROMOFORM                               |
| EPA 524.2 REV 4.1 | CARBON TETRACHLORIDE                        | EPA 524.2 REV 4.1 | CHLOROBENZENE                           |
| EPA 524.2 REV 4.1 | CHLORODIBROMOMETHANE                        | EPA 524.2 REV 4.1 | CHLOROFORM                              |
| EPA 524.2 REV 4.1 | CIS-1,2-DICHLOROETHYLENE                    | EPA 524.2 REV 4.1 | ETHYLBENZENE                            |
| EPA 524.2 REV 4.1 | METHYLENE CHLORIDE (DICHLOROMETHANE)        | EPA 524.2 REV 4.1 | STYRENE                                 |
| EPA 524.2 REV 4.1 | TETRACHLOROETHENE (PERCHLOROETHENE)         | EPA 524.2 REV 4.1 | TOLUENE                                 |
| EPA 524.2 REV 4.1 | TOTAL TRIHALOMETHANES (TTHMS)               | EPA 524.2 REV 4.1 | TRANS-1,2-DICHLOROETHENE                |
| EPA 524.2 REV 4.1 | TRICHLOROETHENE (TRICHLOROETHYLENE)         | EPA 524.2 REV 4.1 | VINYL CHLORIDE (CHLOROETHENE)           |
| EPA 524.2 REV 4.1 | XYLENE (TOTAL)                              | EPA 548.1 REV 1   | ENDOTHALL                               |
| SM 2120 B-2011    | COLOR                                       | SM 2320 B-2011    | ALKALINITY AS CaCO <sub>3</sub>         |
| SM 2540 C-2011    | RESIDUE-FILTERABLE (TDS)                    | SM 4110 B-2011    | CHLORIDE                                |
| SM 4110 B-2011    | FLUORIDE                                    | SM 4110 B-2011    | SULFATE                                 |
| SM 4500-P E-2011  | ORTHOPHOSPHATE AS P                         | SM 5310 C-2011    | DISSOLVED ORGANIC CARBON (DOC)          |

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**1 VAC 30 Chapter 46**  
**Effective: 07/09/2019**

SM 5310 C-2011

TOTAL ORGANIC CARBON (TOC)

**Environmental Conservation Laboratories**  
Orlando, FL

Phone: (407) 826-5314  
DCLS Lab ID: 460186

Certificate No.: 10060

Certificate Expiration Date: 09/14/2019

| Method            | Analyte                    | Method            | Analyte                        |
|-------------------|----------------------------|-------------------|--------------------------------|
| EPA 300.0 REV 2.1 | BROMIDE                    | EPA 300.0 REV 2.1 | FLUORIDE                       |
| EPA 300.0 REV 2.1 | NITRATE AS N               | EPA 300.0 REV 2.1 | NITRATE/NITRITE                |
| EPA 300.0 REV 2.1 | NITRITE AS N               | EPA 300.0 REV 2.1 | ORTHOPHOSPHATE AS P            |
| EPA 300.0 REV 2.1 | SULFATE                    | EPA 365.1 REV 2   | ORTHOPHOSPHATE AS P            |
| SM 2120 B-2011    | COLOR                      | SM 2150 B-2011    | ODOR                           |
| SM 4500-H+ B-2011 | PH                         | SM 5310 B-2011    | DISSOLVED ORGANIC CARBON (DOC) |
| SM 5310 B-2011    | TOTAL ORGANIC CARBON (TOC) | SM 5540 C-2011    | SURFACTANTS - MBAS             |

**A L S Environmental -- Jacksonville**  
Jacksonville, FL

Phone: (904) 394-4415  
DCLS Lab ID: 460191

Certificate No.: 10110

Certificate Expiration Date: 12/14/2019

| Method                                    | Analyte                            | Method                                    | Analyte                                     |
|---|------------------------------------|---|---|
| EPA 180.1 REV 2                           | TURBIDITY                          | EPA 200.7 REV 4.4                         | ALUMINUM                                    |
| EPA 200.7 REV 4.4                         | BARIUM                             | EPA 200.7 REV 4.4                         | CADMIUM                                     |
| EPA 200.7 REV 4.4                         | CALCIUM                            | EPA 200.7 REV 4.4                         | CHROMIUM                                    |
| EPA 200.7 REV 4.4                         | COPPER                             | EPA 200.7 REV 4.4                         | IRON  |
| EPA 200.7 REV 4.4                         | MAGNESIUM                          | EPA 200.7 REV 4.4                         | MANGANESE                                   |
| EPA 200.7 REV 4.4                         | NICKEL                             | EPA 200.7 REV 4.4                         | SILVER                                      |
| EPA 200.7 REV 4.4                         | SODIUM                             | EPA 200.7 REV 4.4                         | ZINC  |
| EPA 200.8 REV 5.4                         | ALUMINUM                           | EPA 200.8 REV 5.4                         | ANTIMONY                                    |
| EPA 200.8 REV 5.4                         | ARSENIC                            | EPA 200.8 REV 5.4                         | BARIUM                                      |
| EPA 200.8 REV 5.4                         | BERYLLIUM                          | EPA 200.8 REV 5.4                         | CADMIUM                                     |
| EPA 200.8 REV 5.4                         | CHROMIUM                           | EPA 200.8 REV 5.4                         | COPPER                                      |
| EPA 200.8 REV 5.4                         | LEAD                               | EPA 200.8 REV 5.4                         | MANGANESE                                   |
| EPA 200.8 REV 5.4                         | NICKEL                             | EPA 200.8 REV 5.4                         | SELENIUM                                    |
| EPA 200.8 REV 5.4                         | SILVER                             | EPA 200.8 REV 5.4                         | THALLIUM                                    |
| EPA 200.8 REV 5.4                         | ZINC                               | EPA 245.1 REV 3                           | MERCURY                                     |
| EPA 300.0 REV 2.1                         | CHLORIDE                           | EPA 300.0 REV 2.1                         | FLUORIDE                                    |
| EPA 300.0 REV 2.1                         | NITRATE AS N                       | EPA 300.0 REV 2.1                         | NITRATE/NITRITE                             |
| EPA 300.0 REV 2.1                         | NITRITE AS N                       | EPA 300.0 REV 2.1                         | SULFATE                                     |
| EPA 335.4 REV 1.0                         | CYANIDE                            | EPA 353.2 REV 2 (AS LACHAT 10-107-04-1-A) | NITRATE AS N                                |
| EPA 353.2 REV 2 (AS LACHAT 10-107-04-1-A) | NITRATE/NITRITE                    | EPA 353.2 REV 2 (AS LACHAT 10-107-04-1-A) | NITRITE AS N                                |
| EPA 504.1 REV 1.1                         | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) | EPA 504.1 REV 1.1                         | 1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE) |
| SM 2130 B-2011                            | TURBIDITY                          | SM 2320 B-2011                            | ALKALINITY AS CaCO <sub>3</sub>             |
| SM 2510 B-2011                            | CONDUCTIVITY                       | SM 2540 C-2011                            | RESIDUE-FILTERABLE (TDS)                    |
| SM 4500-CL G-2011                         | TOTAL RESIDUAL CHLORINE            | SM 4500-CN <sup>-</sup> E-2011            | CYANIDE                                     |
| SM 5310 B-2011                            | TOTAL ORGANIC CARBON (TOC)         | SM 5540 C-2011                            | SURFACTANTS - MBAS                          |



**Accredited Laboratories**  
**with Drinking Water Fields of Accreditation**  
**1 VAC 30 Chapter 46**  
**Effective: 07/09/2019**

**Alpha Analytical**  
Mansfield, MA

Phone: (508) 898-9220  
DCLS Lab ID: 460194

Certificate No.: 10136

Certificate Expiration Date: 12/14/2019

| Method            | Analyte   | Method            | Analyte   |
|-------------------|-----------|-------------------|-----------|
| EPA 200.7 REV 4.4 | ALUMINUM  | EPA 200.7 REV 4.4 | BARIUM    |
| EPA 200.7 REV 4.4 | CADMIUM   | EPA 200.7 REV 4.4 | CALCIUM   |
| EPA 200.7 REV 4.4 | CHROMIUM  | EPA 200.7 REV 4.4 | COPPER    |
| EPA 200.7 REV 4.4 | IRON      | EPA 200.7 REV 4.4 | MAGNESIUM |
| EPA 200.7 REV 4.4 | MANGANESE | EPA 200.7 REV 4.4 | NICKEL    |
| EPA 200.7 REV 4.4 | SILVER    | EPA 200.7 REV 4.4 | SODIUM    |
| EPA 200.7 REV 4.4 | ZINC      | EPA 200.8 REV 5.4 | ALUMINUM  |
| EPA 200.8 REV 5.4 | ANTIMONY  | EPA 200.8 REV 5.4 | ARSENIC   |
| EPA 200.8 REV 5.4 | BARIUM    | EPA 200.8 REV 5.4 | BERYLLIUM |
| EPA 200.8 REV 5.4 | CADMIUM   | EPA 200.8 REV 5.4 | CHROMIUM  |
| EPA 200.8 REV 5.4 | COPPER    | EPA 200.8 REV 5.4 | IRON      |
| EPA 200.8 REV 5.4 | LEAD      | EPA 200.8 REV 5.4 | MANGANESE |
| EPA 200.8 REV 5.4 | NICKEL    | EPA 200.8 REV 5.4 | SELENIUM  |
| EPA 200.8 REV 5.4 | SILVER    | EPA 200.8 REV 5.4 | SODIUM    |
| EPA 200.8 REV 5.4 | THALLIUM  | EPA 200.8 REV 5.4 | ZINC      |
| EPA 245.1 REV 3   | MERCURY   |                   |           |

**Alpha Analytical**  
Westborough, MA

Phone: (508) 898-9220  
DCLS Lab ID: 460195

Certificate No.: 10504

Certificate Expiration Date: 12/14/2019

| Method                         | Analyte                                     | Method                                      | Analyte                                 |
|--------------------------------|---|---|---|
| EPA 300.0 REV 2.1              | BROMIDE                                     | EPA 300.0 REV 2.1                           | CHLORIDE                                |
| EPA 300.0 REV 2.1              | FLUORIDE                                    | EPA 300.0 REV 2.1                           | NITRATE AS N                            |
| EPA 300.0 REV 2.1              | SULFATE                                     | EPA 353.2 REV 2                             | NITRATE AS N                            |
| EPA 353.2 REV 2                | NITRITE AS N                                | EPA 504.1 REV 1.1                           | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)      |
| EPA 504.1 REV 1.1              | 1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE) | EPA 524.2 REV 4.1                           | 1,1,1-TRICHLOROETHANE                   |
| EPA 524.2 REV 4.1              | 1,1,2-TRICHLOROETHANE                       | EPA 524.2 REV 4.1                           | 1,1-DICHLOROETHYLENE                    |
| EPA 524.2 REV 4.1              | 1,2,4-TRICHLOROBENZENE                      | EPA 524.2 REV 4.1                           | 1,2-DICHLOROBENZENE (O-DICHLOROBENZENE) |
| EPA 524.2 REV 4.1              | 1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)    | EPA 524.2 REV 4.1                           | 1,2-DICHLOROPROPANE                     |
| EPA 524.2 REV 4.1              | 1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)     | EPA 524.2 REV 4.1                           | BENZENE                                 |
| EPA 524.2 REV 4.1              | BROMODICHLOROMETHANE                        | EPA 524.2 REV 4.1                           | BROMOFORM                               |
| EPA 524.2 REV 4.1              | CARBON TETRACHLORIDE                        | EPA 524.2 REV 4.1                           | CHLOROBENZENE                           |
| EPA 524.2 REV 4.1              | CHLORODIBROMOMETHANE                        | EPA 524.2 REV 4.1                           | CHLOROFORM                              |
| EPA 524.2 REV 4.1              | CIS-1,2-DICHLOROETHYLENE                    | EPA 524.2 REV 4.1                           | ETHYLBENZENE                            |
| EPA 524.2 REV 4.1              | METHYLENE CHLORIDE (DICHLOROMETHANE)        | EPA 524.2 REV 4.1                           | STYRENE                                 |
| EPA 524.2 REV 4.1              | TETRACHLOROETHENE (PERCHLOROETHENE)         | EPA 524.2 REV 4.1                           | TOLUENE                                 |
| EPA 524.2 REV 4.1              | TRANS-1,2-DICHLOROETHENE                    | EPA 524.2 REV 4.1                           | TRICHLOROETHENE (TRICHLOROETHYLENE)     |
| EPA 524.2 REV 4.1              | VINYL CHLORIDE (CHLOROETHENE)               | EPA 524.2 REV 4.1                           | XYLENE (TOTAL)                          |
| SM 2120 B-2011                 | COLOR                                       | SM 2320 B-2011                              | ALKALINITY AS CaCO <sub>3</sub>         |
| SM 2510 B-2011                 | CONDUCTIVITY                                | SM 2540 C-2011                              | RESIDUE-FILTERABLE (TDS)                |
| SM 4500-CN <sup>-</sup> E-2011 | CYANIDE                                     | SM 4500-F <sup>-</sup> C-2011               | FLUORIDE                                |
| SM 4500-H+ B-2011              | PH  | SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011 | NITRATE AS N                            |

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**Effective: 07/09/2019**

SM 4500-NO3<sup>-</sup> F-2011  
SM 5310 C-2011

NITRITE AS N  
DISSOLVED ORGANIC CARBON (DOC)

SM 4500-P E-2011  
SM 5310 C-2011

ORTHOPHOSPHATE AS P  
TOTAL ORGANIC CARBON (TOC)

**Pace Analytical Services, LLC - Pittsburgh PA**  
Greensburg, PA

Phone: (724) 850-5630  
DCLS Lab ID: 460198

Certificate No.: 10017

Certificate Expiration Date: 12/14/2019

| Method         | Analyte      | Method    | Analyte        |
|----------------|--------------|-----------|----------------|
| ASTM D5174-97  | URANIUM      | EPA 900.0 | GROSS ALPHA    |
| EPA 900.0      | GROSS BETA   | EPA 901.1 | GAMMA EMITTERS |
| EPA 903.1      | RADIUM-226   | EPA 904.0 | RADIUM-228     |
| EPA 905.0      | STRONTIUM-90 | EPA 906.0 | TRITIUM        |
| SM 7110 C-2011 | GROSS ALPHA  |           |                |

**GEL Laboratories, LLC**  
Charleston, SC

Phone: (843) 556-8171  
DCLS Lab ID: 460202

Certificate No.: 10177

Certificate Expiration Date: 12/14/2019

| Method            | Analyte                                    | Method            | Analyte  |
|-------------------|--|-------------------|--|
| ASTM D5174-02     | URANIUM                                    | EPA 00-02         | GROSS ALPHA                                    |
| EPA 200.7 REV 4.4 | ALUMINUM                                   | EPA 200.7 REV 4.4 | BARIUM   |
| EPA 200.7 REV 4.4 | BERYLLIUM                                  | EPA 200.7 REV 4.4 | CADMIUM  |
| EPA 200.7 REV 4.4 | CALCIUM                                    | EPA 200.7 REV 4.4 | CHROMIUM                                       |
| EPA 200.7 REV 4.4 | COPPER                                     | EPA 200.7 REV 4.4 | IRON   |
| EPA 200.7 REV 4.4 | MANGANESE                                  | EPA 200.7 REV 4.4 | NICKEL   |
| EPA 200.7 REV 4.4 | SILICA AS SIO2                             | EPA 200.7 REV 4.4 | SILVER   |
| EPA 200.7 REV 4.4 | SODIUM                                     | EPA 200.7 REV 4.4 | ZINC   |
| EPA 200.8 REV 5.4 | ALUMINUM                                   | EPA 200.8 REV 5.4 | ANTIMONY                                       |
| EPA 200.8 REV 5.4 | ARSENIC                                    | EPA 200.8 REV 5.4 | BARIUM   |
| EPA 200.8 REV 5.4 | BERYLLIUM                                  | EPA 200.8 REV 5.4 | CADMIUM  |
| EPA 200.8 REV 5.4 | CHROMIUM                                   | EPA 200.8 REV 5.4 | COPPER   |
| EPA 200.8 REV 5.4 | IRON                                       | EPA 200.8 REV 5.4 | LEAD   |
| EPA 200.8 REV 5.4 | MANGANESE                                  | EPA 200.8 REV 5.4 | NICKEL   |
| EPA 200.8 REV 5.4 | SELENIUM                                   | EPA 200.8 REV 5.4 | SILVER   |
| EPA 200.8 REV 5.4 | THALLIUM                                   | EPA 200.8 REV 5.4 | URANIUM  |
| EPA 200.8 REV 5.4 | ZINC                                       | EPA 245.1 REV 3   | MERCURY  |
| EPA 245.2         | MERCURY                                    | EPA 300.0 REV 2.1 | BROMIDE  |
| EPA 300.0 REV 2.1 | CHLORIDE                                   | EPA 300.0 REV 2.1 | FLUORIDE                                       |
| EPA 300.0 REV 2.1 | NITRATE AS N                               | EPA 300.0 REV 2.1 | NITRATE/NITRITE                                |
| EPA 300.0 REV 2.1 | NITRITE AS N                               | EPA 300.0 REV 2.1 | ORTHOPHOSPHATE AS P                            |
| EPA 300.0 REV 2.1 | SULFATE                                    | EPA 353.2 REV 2   | NITRATE/NITRITE                                |
| EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)         | EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE<br>DIBROMIDE) |
| EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                      | EPA 524.2 REV 4.1 | 1,1,2-TRICHLOROETHANE                          |
| EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                       | EPA 524.2 REV 4.1 | 1,2,4-TRICHLOROBENZENE                         |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE) | EPA 524.2 REV 4.1 | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE)    |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE                        | EPA 524.2 REV 4.1 | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)     |
| EPA 524.2 REV 4.1 | BENZENE                                    | EPA 524.2 REV 4.1 | BROMODICHLOROMETHANE                           |
| EPA 524.2 REV 4.1 | BROMOFORM                                  | EPA 524.2 REV 4.1 | CARBON TETRACHLORIDE                           |
| EPA 524.2 REV 4.1 | CHLOROBENZENE                              | EPA 524.2 REV 4.1 | CHLORODIBROMOMETHANE                           |
| EPA 524.2 REV 4.1 | CHLOROFORM                                 | EPA 524.2 REV 4.1 | CIS-1,2-DICHLOROETHYLENE                       |
| EPA 524.2 REV 4.1 | ETHYLBENZENE                               |                   |  |

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**Effective: 07/09/2019**

|                   |   |   |  |
|-------------------|---|---|--|
| EPA 524.2 REV 4.1 | METHYLENE CHLORIDE<br>(DICHLOROMETHANE) | EPA 524.2 REV 4.1                           | STYRENE                                |
| EPA 524.2 REV 4.1 | TETRACHLOROETHENE<br>(PERCHLOROETHENE)  | EPA 524.2 REV 4.1                           | TOLUENE                                |
| EPA 524.2 REV 4.1 | TRANS-1,2-DICHLOROETHENE                | EPA 524.2 REV 4.1                           | TRICHLOROETHENE<br>(TRICHLOROETHYLENE) |
| EPA 524.2 REV 4.1 | VINYL CHLORIDE (CHLOROETHENE)           | EPA 524.2 REV 4.1                           | XYLENE (TOTAL)                         |
| EPA 552.2 REV 1   | BROMOACETIC ACID                        | EPA 552.2 REV 1                             | CHLOROACETIC ACID                      |
| EPA 552.2 REV 1   | DIBROMOACETIC ACID                      | EPA 552.2 REV 1                             | DICHLOROACETIC ACID                    |
| EPA 552.2 REV 1   | TRICHLOROACETIC ACID (TCAA)             | EPA 900.0                                   | GROSS ALPHA                            |
| EPA 900.0         | GROSS BETA                              | EPA 901.1                                   | CESIUM-134                             |
| EPA 901.1         | CESIUM-137                              | EPA 901.1                                   | GAMMA EMITTERS                         |
| EPA 901.1         | IODINE-131                              | EPA 902.0                                   | IODINE-131                             |
| EPA 903.0         | RADIUM-226                              | EPA 903.0                                   | TOTAL ALPHA RADIUM                     |
| EPA 903.1         | RADIUM-226                              | EPA 904.0                                   | RADIUM-228                             |
| EPA 905.0         | STRONTIUM-89                            | EPA 905.0                                   | STRONTIUM-90                           |
| EPA 906.0         | TRITIUM                                 | SM 2120 B-2011                              | COLOR                                  |
| SM 2320 B-2011    | ALKALINITY AS CaCO <sub>3</sub>         | SM 2510 B-2011                              | CONDUCTIVITY                           |
| SM 2540 C-2011    | RESIDUE-FILTERABLE (TDS)                | SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011 | NITRATE AS N                           |

**Cape Fear Analytical, L.L.C.**

Wilmington, NC

Certificate No.: 10099

Certificate Expiration Date: 12/14/2019

Phone: (910) 795-0421

DCLS Lab ID: 460208

| <b>Method</b> | <b>Analyte</b>   | <b>Method</b> | <b>Analyte</b> |
|---------------|--|---------------|----------------|
| EPA 1613      | 2,3,7,8-TETRACHLORODIBENZO- P-DIOXIN<br>(2,3,7,8-TCDD) |               |                |

  

| <b>Method</b>     | <b>Analyte</b> | <b>Method</b>     | <b>Analyte</b>      |
|-------------------|----------------|-------------------|---------------------|
| EPA 200.7 REV 4.4 | ALUMINUM       | EPA 200.7 REV 4.4 | BARIUM              |
| EPA 200.7 REV 4.4 | BERYLLIUM      | EPA 200.7 REV 4.4 | CADMIUM             |
| EPA 200.7 REV 4.4 | CALCIUM        | EPA 200.7 REV 4.4 | CHROMIUM            |
| EPA 200.7 REV 4.4 | COPPER         | EPA 200.7 REV 4.4 | IRON                |
| EPA 200.7 REV 4.4 | MAGNESIUM      | EPA 200.7 REV 4.4 | MANGANESE           |
| EPA 200.7 REV 4.4 | NICKEL         | EPA 200.7 REV 4.4 | SODIUM              |
| EPA 200.7 REV 4.4 | ZINC           | EPA 200.8 REV 5.4 | ALUMINUM            |
| EPA 200.8 REV 5.4 | ANTIMONY       | EPA 200.8 REV 5.4 | ARSENIC             |
| EPA 200.8 REV 5.4 | BARIUM         | EPA 200.8 REV 5.4 | BERYLLIUM           |
| EPA 200.8 REV 5.4 | CADMIUM        | EPA 200.8 REV 5.4 | CHROMIUM            |
| EPA 200.8 REV 5.4 | COPPER         | EPA 200.8 REV 5.4 | LEAD                |
| EPA 200.8 REV 5.4 | MANGANESE      | EPA 200.8 REV 5.4 | MERCURY             |
| EPA 200.8 REV 5.4 | NICKEL         | EPA 200.8 REV 5.4 | SELENIUM            |
| EPA 200.8 REV 5.4 | SILVER         | EPA 200.8 REV 5.4 | THALLIUM            |
| EPA 200.8 REV 5.4 | ZINC           | EPA 300.0 REV 2.1 | CHLORIDE            |
| EPA 300.0 REV 2.1 | CHLORITE       | EPA 300.0 REV 2.1 | FLUORIDE            |
| EPA 300.0 REV 2.1 | NITRATE AS N   | EPA 300.0 REV 2.1 | NITRATE/NITRITE     |
| EPA 300.0 REV 2.1 | NITRITE AS N   | EPA 300.0 REV 2.1 | ORTHOPHOSPHATE AS P |
| EPA 300.0 REV 2.1 | SULFATE        | EPA 300.1         | BROMATE             |
| EPA 300.1         | BROMIDE        | EPA 507 REV 2.1   | ALACHLOR            |
| EPA 507 REV 2.1   | ATRAZINE       | EPA 507 REV 2.1   | SIMAZINE            |

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**1 VAC 30 Chapter 46**

**Effective: 07/09/2019**

|                                |   |                                |  |
|--------------------------------|---|--------------------------------|--|
| EPA 508 REV 3.1                | AROCLOR-1016 (PCB-1016)                               | EPA 508 REV 3.1                | AROCLOR-1221 (PCB-1221)  |
| EPA 508 REV 3.1                | AROCLOR-1232 (PCB-1232)                               | EPA 508 REV 3.1                | AROCLOR-1242 (PCB-1242)  |
| EPA 508 REV 3.1                | AROCLOR-1248 (PCB-1248)                               | EPA 508 REV 3.1                | AROCLOR-1254 (PCB-1254)  |
| EPA 508 REV 3.1                | AROCLOR-1260 (PCB-1260)                               | EPA 508 REV 3.1                | CHLORDANE, TOTAL   |
| EPA 508 REV 3.1                | ENDRIN  | EPA 508 REV 3.1                | GAMMA-BHC (LINDANE,<br>GAMMA-HEXACHLOROCYCLOHEXANE)                |
| EPA 508 REV 3.1                | HEPTACHLOR  | EPA 508 REV 3.1                | HEPTACHLOR EPOXIDE   |
| EPA 508 REV 3.1                | HEXACHLOROBENZENE                                     | EPA 508 REV 3.1                | HEXACHLOROCYCLOPENTADIENE  |
| EPA 508 REV 3.1                | METHOXYCHLOR  | EPA 508 REV 3.1                | TOXAPHENE (CHLORINATED CAMPHENE)                                   |
| EPA 515.1 REV 4                | 2,4-D   | EPA 515.1 REV 4                | DALAPON  |
| EPA 515.1 REV 4                | DINOSEB<br>(2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)      | EPA 515.1 REV 4                | PENTACHLOROPHENOL  |
| EPA 515.1 REV 4                | PICLORAM  | EPA 515.1 REV 4                | SILVEX (2,4,5-TP)  |
| EPA 524.2 REV 4.1              | 1,1,1-TRICHLOROETHANE                                 | EPA 524.2 REV 4.1              | 1,1,2-TRICHLOROETHANE  |
| EPA 524.2 REV 4.1              | 1,1-DICHLOROETHYLENE                                  | EPA 524.2 REV 4.1              | 1,2,4-TRICHLOROBENZENE   |
| EPA 524.2 REV 4.1              | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE)            | EPA 524.2 REV 4.1              | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE)                        |
| EPA 524.2 REV 4.1              | 1,2-DICHLOROPROPANE                                   | EPA 524.2 REV 4.1              | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)                         |
| EPA 524.2 REV 4.1              | BENZENE   | EPA 524.2 REV 4.1              | BROMODICHLOROMETHANE   |
| EPA 524.2 REV 4.1              | BROMOFORM   | EPA 524.2 REV 4.1              | CARBON TETRACHLORIDE   |
| EPA 524.2 REV 4.1              | CHLOROBENZENE   | EPA 524.2 REV 4.1              | CHLORODIBROMOMETHANE   |
| EPA 524.2 REV 4.1              | CHLOROFORM  | EPA 524.2 REV 4.1              | CIS-1,2-DICHLOROETHYLENE   |
| EPA 524.2 REV 4.1              | ETHYLBENZENE  | EPA 524.2 REV 4.1              | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)                            |
| EPA 524.2 REV 4.1              | STYRENE   | EPA 524.2 REV 4.1              | TETRACHLOROETHENE<br>(PERCHLOROETHENE)                             |
| EPA 524.2 REV 4.1              | TOLUENE   | EPA 524.2 REV 4.1              | TRANS-1,2-DICHLOROETHENE   |
| EPA 524.2 REV 4.1              | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)                | EPA 524.2 REV 4.1              | VINYL CHLORIDE (CHLOROETHENE)                                      |
| EPA 524.2 REV 4.1              | XYLENE (TOTAL)  | EPA 525.2 REV 2                | BIS(2-ETHYLHEXYL) PHTHALATE<br>(DI(2-ETHYLHEXYL)PHTHALATE), (DEHP) |
| EPA 525.2 REV 2                | BIS(2-ETHYLHEXYL)ADIPATE<br>(DI(2-ETHYLHEXYL)ADIPATE) | EPA 531.1 REV 3.1              | OXAMYL   |
| EPA 547                        | GLYPHOSATE  | EPA 548.1 REV 1                | ENDOTHALL  |
| EPA 549.2 REV 1                | DIQUAT  | EPA 550.1                      | BENZO(A)PYRENE   |
| EPA 552.2 REV 1                | BROMOACETIC ACID                                      | EPA 552.2 REV 1                | CHLOROACETIC ACID  |
| EPA 552.2 REV 1                | DIBROMOACETIC ACID                                    | EPA 552.2 REV 1                | DICHLOROACETIC ACID  |
| EPA 552.2 REV 1                | HALOACETIC ACIDS - FIVE (HAA5)                        | EPA 552.2 REV 1                | TRICHLOROACETIC ACID (TCAA)  |
| SM 2320 B-2011                 | ALKALINITY AS CaCO <sub>3</sub>                       | SM 2510 B-2011                 | CONDUCTIVITY   |
| SM 2540 C-2011                 | RESIDUE-FILTERABLE (TDS)                              | SM 4500-CN <sup>-</sup> C-2011 | PREP: CYANIDE DISTILLATION   |
| SM 4500-CN <sup>-</sup> E-2011 | CYANIDE   | SM 4500-F <sup>-</sup> C-2011  | FLUORIDE   |
| SM 5310 C-2011                 | DISSOLVED ORGANIC CARBON (DOC)                        | SM 5310 C-2011                 | TOTAL ORGANIC CARBON (TOC)   |
| SM 5540 C-2011                 | SURFACTANTS - MBAS                                    |                                |  |

**Fairway Laboratories Inc**

Altoona, PA

Certificate No.: 10131

Certificate Expiration Date: 12/14/2019

Phone: (814) 946-4306

DCLS Lab ID: 460212

| <b>Method</b>     | <b>Analyte</b> | <b>Method</b>     | <b>Analyte</b> |
|-------------------|----------------|-------------------|----------------|
| EPA 200.7 REV 4.4 | ALUMINUM       | EPA 200.7 REV 4.4 | BARIUM         |
| EPA 200.7 REV 4.4 | BERYLLIUM      | EPA 200.7 REV 4.4 | CADMIUM        |
| EPA 200.7 REV 4.4 | CALCIUM        | EPA 200.7 REV 4.4 | CHROMIUM       |
| EPA 200.7 REV 4.4 | COPPER         | EPA 200.7 REV 4.4 | IRON           |
| EPA 200.7 REV 4.4 | MAGNESIUM      | EPA 200.7 REV 4.4 | MANGANESE      |
| EPA 200.7 REV 4.4 | NICKEL         | EPA 200.7 REV 4.4 | SILVER         |
| EPA 200.7 REV 4.4 | SODIUM         | EPA 200.7 REV 4.4 | ZINC           |
| EPA 200.8 REV 5.4 | ALUMINUM       | EPA 200.8 REV 5.4 | ANTIMONY       |

**Accredited Laboratories  
with Drinking Water Fields of Accreditation**

**1 VAC 30 Chapter 46**

**Effective: 07/09/2019**

|   |  |   |   |
|---|--|---|---|
| EPA 200.8 REV 5.4                           | ARSENIC                                    | EPA 200.8 REV 5.4                           | BARIUM                                      |
| EPA 200.8 REV 5.4                           | BERYLLIUM                                  | EPA 200.8 REV 5.4                           | CADMIUM                                     |
| EPA 200.8 REV 5.4                           | CHROMIUM                                   | EPA 200.8 REV 5.4                           | COPPER                                      |
| EPA 200.8 REV 5.4                           | IRON                                       | EPA 200.8 REV 5.4                           | LEAD  |
| EPA 200.8 REV 5.4                           | MANGANESE                                  | EPA 200.8 REV 5.4                           | MERCURY                                     |
| EPA 200.8 REV 5.4                           | NICKEL                                     | EPA 200.8 REV 5.4                           | SELENIUM                                    |
| EPA 200.8 REV 5.4                           | SILVER                                     | EPA 200.8 REV 5.4                           | THALLIUM                                    |
| EPA 200.8 REV 5.4                           | ZINC                                       | EPA 245.1 REV 3                             | MERCURY                                     |
| EPA 300.0 REV 2.1                           | BROMIDE                                    | EPA 300.0 REV 2.1                           | CHLORIDE                                    |
| EPA 300.0 REV 2.1                           | FLUORIDE                                   | EPA 300.0 REV 2.1                           | NITRATE AS N                                |
| EPA 300.0 REV 2.1                           | NITRATE/NITRITE                            | EPA 300.0 REV 2.1                           | NITRITE AS N                                |
| EPA 300.0 REV 2.1                           | SULFATE                                    | EPA 300.1                                   | BROMATE                                     |
| EPA 524.2 REV 4.1                           | 1,1,1-TRICHLOROETHANE                      | EPA 524.2 REV 4.1                           | 1,1,2-TRICHLOROETHANE                       |
| EPA 524.2 REV 4.1                           | 1,1-DICHLOROETHYLENE                       | EPA 524.2 REV 4.1                           | 1,2,4-TRICHLOROBENZENE                      |
| EPA 524.2 REV 4.1                           | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE) | EPA 524.2 REV 4.1                           | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE) |
| EPA 524.2 REV 4.1                           | 1,2-DICHLOROPROPANE                        | EPA 524.2 REV 4.1                           | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)  |
| EPA 524.2 REV 4.1                           | BENZENE                                    | EPA 524.2 REV 4.1                           | BROMODICHLOROMETHANE                        |
| EPA 524.2 REV 4.1                           | BROMOFORM                                  | EPA 524.2 REV 4.1                           | CARBON TETRACHLORIDE                        |
| EPA 524.2 REV 4.1                           | CHLOROBENZENE                              | EPA 524.2 REV 4.1                           | CHLORODIBROMOMETHANE                        |
| EPA 524.2 REV 4.1                           | CHLOROFORM                                 | EPA 524.2 REV 4.1                           | CIS-1,2-DICHLOROETHYLENE                    |
| EPA 524.2 REV 4.1                           | ETHYLBENZENE                               | EPA 524.2 REV 4.1                           | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)     |
| EPA 524.2 REV 4.1                           | STYRENE                                    | EPA 524.2 REV 4.1                           | TETRACHLOROETHENE<br>(PERCHLOROETHENE)      |
| EPA 524.2 REV 4.1                           | TOLUENE                                    | EPA 524.2 REV 4.1                           | TRANS-1,2-DICHLOROETHENE                    |
| EPA 524.2 REV 4.1                           | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)     | EPA 524.2 REV 4.1                           | VINYL CHLORIDE (CHLOROETHENE)               |
| EPA 524.2 REV 4.1                           | XYLENE (TOTAL)                             | EPA 552.2 REV 1                             | BROMOACETIC ACID                            |
| EPA 552.2 REV 1                             | CHLOROACETIC ACID                          | EPA 552.2 REV 1                             | DIBROMOACETIC ACID                          |
| EPA 552.2 REV 1                             | DICHLOROACETIC ACID                        | EPA 552.2 REV 1                             | HALOACETIC ACIDS - FIVE (HAA5)              |
| EPA 552.2 REV 1                             | TRICHLOROACETIC ACID (TCAA)                | SIMPLATE                                    | HETEROTROPHIC PLATE COUNT                   |
| SM 2120 B-2011                              | COLOR                                      | SM 2130 B-2011                              | TURBIDITY                                   |
| SM 2150 B-2011                              | ODOR                                       | SM 2320 B-2011                              | ALKALINITY AS CaCO <sub>3</sub>             |
| SM 2510 B-2011                              | CONDUCTIVITY                               | SM 2540 C-2011                              | RESIDUE-FILTERABLE (TDS)                    |
| SM 4500-CL G-2011                           | TOTAL RESIDUAL CHLORINE                    | SM 4500-CN <sup>-</sup> C-2011              | PREP: CYANIDE DISTILLATION                  |
| SM 4500-CN <sup>-</sup> E-2011              | CYANIDE                                    | SM 4500-CN <sup>-</sup> G-2011              | AMENABLE CYANIDE                            |
| SM 4500-H+ B-2011                           | PH   | SM 4500-NO <sub>2</sub> <sup>-</sup> B-2011 | NITRITE AS N                                |
| SM 4500-NO <sub>3</sub> <sup>-</sup> D-2011 | NITRATE AS N                               | SM 4500-P E-2011                            | ORTHOPHOSPHATE AS P                         |
| SM 5310 C-2011                              | DISSOLVED ORGANIC CARBON (DOC)             | SM 5310 C-2011                              | TOTAL ORGANIC CARBON (TOC)                  |
| SM 5540 C-2011                              | SURFACTANTS - MBAS                         | SM 9223 COLILERT                            | ESCHERICHIA COLI                            |
| SM 9223 COLILERT P/A                        | ESCHERICHIA COLI                           | MPN   |   |
|   |  | SM 9223 COLILERT P/A                        | TOTAL COLIFORMS                             |

**Con-Test Analytical Laboratory**

East Longmeadow, MA

Certificate No.: 10474

Phone: (413) 525-2332

DCLS Lab ID: 460217

Certificate Expiration Date: 12/14/2019

| <b>Method</b>     | <b>Analyte</b> | <b>Method</b>     | <b>Analyte</b> |
|-------------------|----------------|-------------------|----------------|
| EPA 200.7 REV 4.4 | ALUMINUM       | EPA 200.7 REV 4.4 | BARIUM         |
| EPA 200.7 REV 4.4 | CADMIUM        | EPA 200.7 REV 4.4 | CALCIUM        |
| EPA 200.7 REV 4.4 | CHROMIUM       | EPA 200.7 REV 4.4 | COPPER         |
| EPA 200.7 REV 4.4 | IRON           | EPA 200.7 REV 4.4 | MAGNESIUM      |
| EPA 200.7 REV 4.4 | MANGANESE      | EPA 200.7 REV 4.4 | NICKEL         |
| EPA 200.7 REV 4.4 | SILVER         | EPA 200.7 REV 4.4 | SODIUM         |
| EPA 200.7 REV 4.4 | ZINC           | EPA 200.8 REV 5.4 | ANTIMONY       |

**Accredited Laboratories  
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1 VAC 30 Chapter 46  
Effective: 07/09/2019**

|   |   |   |   |
|---|---|---|---|
| EPA 200.8 REV 5.4                           | ARSENIC                                 | EPA 200.8 REV 5.4                           | BARIUM                                      |
| EPA 200.8 REV 5.4                           | BERYLLIUM                               | EPA 200.8 REV 5.4                           | CADMIUM                                     |
| EPA 200.8 REV 5.4                           | CHROMIUM                                | EPA 200.8 REV 5.4                           | COPPER                                      |
| EPA 200.8 REV 5.4                           | LEAD                                    | EPA 200.8 REV 5.4                           | MANGANESE                                   |
| EPA 200.8 REV 5.4                           | NICKEL                                  | EPA 200.8 REV 5.4                           | SELENIUM                                    |
| EPA 200.8 REV 5.4                           | SILVER                                  | EPA 200.8 REV 5.4                           | THALLIUM                                    |
| EPA 200.8 REV 5.4                           | ZINC                                    | EPA 245.1 REV 3                             | MERCURY                                     |
| EPA 300.0 REV 2.1                           | CHLORIDE                                | EPA 300.0 REV 2.1                           | SULFATE                                     |
| EPA 504.1 REV 1.1                           | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)      | EPA 504.1 REV 1.1                           | 1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE) |
| EPA 524.2 REV 4.1                           | 1,1,1-TRICHLOROETHANE                   | EPA 524.2 REV 4.1                           | 1,1,2-TRICHLOROETHANE                       |
| EPA 524.2 REV 4.1                           | 1,1-DICHLOROETHYLENE                    | EPA 524.2 REV 4.1                           | 1,2,4-TRICHLOROBENZENE                      |
| EPA 524.2 REV 4.1                           | 1,2-DICHLOROBENZENE (O-DICHLOROBENZENE) | EPA 524.2 REV 4.1                           | 1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)    |
| EPA 524.2 REV 4.1                           | 1,2-DICHLOROPROPANE                     | EPA 524.2 REV 4.1                           | 1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)     |
| EPA 524.2 REV 4.1                           | BENZENE                                 | EPA 524.2 REV 4.1                           | BROMODICHLOROMETHANE                        |
| EPA 524.2 REV 4.1                           | CARBON TETRACHLORIDE                    | EPA 524.2 REV 4.1                           | CHLOROCHLORIDE                              |
| EPA 524.2 REV 4.1                           | CHLORODIBROMOMETHANE                    | EPA 524.2 REV 4.1                           | CHLOROFORM                                  |
| EPA 524.2 REV 4.1                           | CIS-1,2-DICHLOROETHYLENE                | EPA 524.2 REV 4.1                           | ETHYLBENZENE                                |
| EPA 524.2 REV 4.1                           | METHYLENE CHLORIDE (DICHLOROMETHANE)    | EPA 524.2 REV 4.1                           | STYRENE                                     |
| EPA 524.2 REV 4.1                           | TETRACHLOROETHENE (PERCHLOROETHENE)     | EPA 524.2 REV 4.1                           | TOLUENE                                     |
| EPA 524.2 REV 4.1                           | TRANS-1,2-DICHLOROETHENE                | EPA 524.2 REV 4.1                           | TRICHLOROETHENE (TRICHLOROETHYLENE)         |
| EPA 524.2 REV 4.1                           | VINYL CHLORIDE (CHLOROETHENE)           | EPA 524.2 REV 4.1                           | XYLENE (TOTAL)                              |
| SM 2120 B-2011                              | COLOR                                   | SM 2150 B-2011                              | ODOR  |
| SM 2320 B-2011                              | ALKALINITY AS CaCO <sub>3</sub>         | SM 2540 C-2011                              | RESIDUE-FILTERABLE (TDS)                    |
| SM 4500-CL <sup>-</sup> B-2011              | CHLORIDE                                | SM 4500-CN <sup>-</sup> E-2011              | CYANIDE                                     |
| SM 4500-F <sup>-</sup> C-2011               | FLUORIDE                                | SM 4500-NO <sub>2</sub> <sup>-</sup> B-2011 | NITRITE AS N                                |
| SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011 | NITRATE AS N                            | SM 5310 B-2011                              | TOTAL ORGANIC CARBON (TOC)                  |

**Eberline Services Oak Ridge Laboratory**

Oak Ridge, TN

Certificate No.: 10015

Certificate Expiration Date: 12/14/2019

Phone: (865) 481-0683

DCLS Lab ID: 460218

| <b>Method</b> | <b>Analyte</b> | <b>Method</b> | <b>Analyte</b>     |
|---------------|----------------|---------------|--------------------|
| EPA 900.0     | GROSS ALPHA    | EPA 900.0     | GROSS BETA         |
| EPA 901.1     | CESIUM-134     | EPA 901.1     | GAMMA EMITTERS     |
| EPA 903.0     | RADIUM-226     | EPA 903.0     | TOTAL ALPHA RADIUM |
| EPA 904.0     | RADIUM-228     | EPA 905.0     | STRONTIUM-89       |
| EPA 905.0     | STRONTIUM-90   | EPA 906.0     | TRITIUM            |
| EPA 908.0     | URANIUM        |               |                    |

**Pace Analytical Services, LLC - Huntersville NC**

Huntersville, NC

Certificate No.: 10307

Certificate Expiration Date: 06/14/2020

Phone: (704) 875-9092

DCLS Lab ID: 460221

| <b>Method</b>     | <b>Analyte</b>                          | <b>Method</b>     | <b>Analyte</b>                              |
|-------------------|---|-------------------|---|
| EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)      | EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE) |
| EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                   | EPA 524.2 REV 4.1 | 1,1,2-TRICHLOROETHANE                       |
| EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                    | EPA 524.2 REV 4.1 | 1,2,4-TRICHLOROBENZENE                      |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROBENZENE (O-DICHLOROBENZENE) | EPA 524.2 REV 4.1 | 1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)    |

**Accredited Laboratories  
with Drinking Water Fields of Accreditation  
1 VAC 30 Chapter 46  
Effective: 07/09/2019**

|                   |                                |                   |  |
|-------------------|--------------------------------|-------------------|--|
| EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE            | EPA 524.2 REV 4.1 | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE) |
| EPA 524.2 REV 4.1 | BENZENE                        | EPA 524.2 REV 4.1 | BROMODICHLOROMETHANE                       |
| EPA 524.2 REV 4.1 | BROMOFORM                      | EPA 524.2 REV 4.1 | CARBON TETRACHLORIDE                       |
| EPA 524.2 REV 4.1 | CHLOROBENZENE                  | EPA 524.2 REV 4.1 | CHLORODIBROMOMETHANE                       |
| EPA 524.2 REV 4.1 | CHLOROFORM                     | EPA 524.2 REV 4.1 | CIS-1,2-DICHLOROETHYLENE                   |
| EPA 524.2 REV 4.1 | ETHYLBENZENE                   | EPA 524.2 REV 4.1 | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)    |
| EPA 524.2 REV 4.1 | STYRENE                        | EPA 524.2 REV 4.1 | TETRACHLOROETHENE<br>(PERCHLOROETHENE)     |
| EPA 524.2 REV 4.1 | TOLUENE                        | EPA 524.2 REV 4.1 | TOTAL TRIHALOMETHANES (TTHMS)              |
| EPA 524.2 REV 4.1 | TRANS-1,2-DICHLOROETHENE       | EPA 524.2 REV 4.1 | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)     |
| EPA 524.2 REV 4.1 | VINYL CHLORIDE (CHLOROETHENE)  | EPA 524.2 REV 4.1 | XYLENE (TOTAL)                             |
| EPA 552.2 REV 1   | BROMOACETIC ACID               | EPA 552.2 REV 1   | CHLOROACETIC ACID                          |
| EPA 552.2 REV 1   | DIBROMOACETIC ACID             | EPA 552.2 REV 1   | DICHLOROACETIC ACID                        |
| EPA 552.2 REV 1   | HALOACETIC ACIDS - FIVE (HAA5) | EPA 552.2 REV 1   | TRICHLOROACETIC ACID (TCAA)                |

**Pace Analytical Services, LLC - Asheville NC**  
Asheville, NC

Phone: (828) 254-7176  
DCLS Lab ID: 460222

Certificate No.: 10309

Certificate Expiration Date: 06/14/2020

| Method  | Analyte                         | Method                                       | Analyte          |
|---|---------------------------------|--|------------------|
| EPA 353.2 REV 2 (AS<br>LACHAT 10-107-04-1 A +<br>C) | NITRATE AS N                    | EPA 353.2 REV 2 (AS<br>LACHAT 10-107-04-1-A) | NITRITE AS N     |
| SM 2320 B-2011                                      | ALKALINITY AS CaCO <sub>3</sub> | SM 9223 COLISURE®                            | ESCHERICHIA COLI |
| SM 9223 COLISURE®                                   | TOTAL COLIFORMS                 |  |                  |

**Henrico County D.P.U. Central Environmental Laboratory**  
Henrico, VA

Phone: (804) 501-7625  
DCLS Lab ID: 460229

Certificate No.: 10383

Certificate Expiration Date: 06/14/2020

| Method            | Analyte          | Method            | Analyte         |
|-------------------|------------------|-------------------|-----------------|
| EPA 180.1 REV 2   | TURBIDITY        | SM 4500-H+ B-2011 | PH              |
| SM 9223 COLISURE® | ESCHERICHIA COLI | SM 9223 COLISURE® | TOTAL COLIFORMS |

**Test America Inc**  
Earth City, MO

Phone: (314)298-8566  
DCLS Lab ID: 460230

Certificate No.: 10310

Certificate Expiration Date: 06/14/2020

| Method    | Analyte     | Method    | Analyte    |
|-----------|-------------|-----------|------------|
| EPA 900.0 | GROSS ALPHA | EPA 900.0 | GROSS BETA |
| EPA 903.0 | RADIUM-226  | EPA 904.0 | RADIUM-228 |
| EPA 906.0 | TRITIUM     |           |            |

**ALS Canada Ltd. dba ALS Environmental**  
Burlington, ON

Phone:  
DCLS Lab ID: 460247

Certificate No.: 10113

Certificate Expiration Date: 12/14/2019

| Method | Analyte | Method | Analyte |
|--------|---------|--------|---------|
|--------|---------|--------|---------|

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1 VAC 30 Chapter 46  
Effective: 07/09/2019**

EPA 1613                      2,3,7,8-TETRACHLORODIBENZO- P-DIOXIN  
(2,3,7,8-TCDD)

**BCS Laboratories, Inc.**

Gainesville, FL

Certificate No.: 10178

Certificate Expiration Date: 03/14/2020

Phone:

DCLS Lab ID: 460252

| Method     | Analyte         | Method         | Analyte         |
|------------|-----------------|----------------|-----------------|
| EPA 1623.1 | CRYPTOSPORIDIUM | SM 9222 B-1997 | TOTAL COLIFORMS |

**Continental Water Laboratory**

Sacramento, CA

Certificate No.: 10384

Certificate Expiration Date: 06/14/2020

Phone: (916) 379-2323

DCLS Lab ID: 460259

| Method                | Analyte                   | Method               | Analyte          |
|-----------------------|---------------------------|----------------------|------------------|
| SM 9215 B-2004        | HETEROTROPHIC PLATE COUNT | SM 9222 B-1997       | TOTAL COLIFORMS  |
| SM 9222 G (P/A) -1997 | ESCHERICHIA COLI          | SM 9223 COLILERT P/A | ESCHERICHIA COLI |
| SM 9223 COLILERT P/A  | TOTAL COLIFORMS           |                      |                  |

**Eurofins Eaton Analytical, LLC**

Monrovia, CA

Certificate No.: 10364

Certificate Expiration Date: 06/14/2020

Phone: (626) 386-1159

DCLS Lab ID: 460260

| Method            | Analyte  | Method            | Analyte                            |
|-------------------|--|-------------------|------------------------------------|
| EPA 1613          | 2,3,7,8-TETRACHLORODIBENZO- P-DIOXIN<br>(2,3,7,8-TCDD) | EPA 180.1 REV 2   | TURBIDITY                          |
| EPA 200.7 REV 4.4 | ALUMINUM   | EPA 200.7 REV 4.4 | BARIUM                             |
| EPA 200.7 REV 4.4 | BERYLLIUM  | EPA 200.7 REV 4.4 | CADMIUM                            |
| EPA 200.7 REV 4.4 | CALCIUM  | EPA 200.7 REV 4.4 | CHROMIUM                           |
| EPA 200.7 REV 4.4 | COPPER   | EPA 200.7 REV 4.4 | IRON                               |
| EPA 200.7 REV 4.4 | MAGNESIUM  | EPA 200.7 REV 4.4 | MANGANESE                          |
| EPA 200.7 REV 4.4 | NICKEL   | EPA 200.7 REV 4.4 | SILICA AS SIO2                     |
| EPA 200.7 REV 4.4 | SILVER   | EPA 200.7 REV 4.4 | SODIUM                             |
| EPA 200.7 REV 4.4 | ZINC   | EPA 200.8 REV 5.4 | ALUMINUM                           |
| EPA 200.8 REV 5.4 | ANTIMONY   | EPA 200.8 REV 5.4 | ARSENIC                            |
| EPA 200.8 REV 5.4 | BARIUM   | EPA 200.8 REV 5.4 | BERYLLIUM                          |
| EPA 200.8 REV 5.4 | CADMIUM  | EPA 200.8 REV 5.4 | CHROMIUM                           |
| EPA 200.8 REV 5.4 | COPPER   | EPA 200.8 REV 5.4 | LEAD                               |
| EPA 200.8 REV 5.4 | MANGANESE  | EPA 200.8 REV 5.4 | MERCURY                            |
| EPA 200.8 REV 5.4 | NICKEL   | EPA 200.8 REV 5.4 | SELENIUM                           |
| EPA 200.8 REV 5.4 | SILVER   | EPA 200.8 REV 5.4 | THALLIUM                           |
| EPA 200.8 REV 5.4 | URANIUM  | EPA 200.8 REV 5.4 | ZINC                               |
| EPA 245.1 REV 3   | MERCURY  | EPA 300.0 REV 2.1 | BROMIDE                            |
| EPA 300.0 REV 2.1 | CHLORIDE   | EPA 300.0 REV 2.1 | CHLORITE                           |
| EPA 300.0 REV 2.1 | NITRATE AS N   | EPA 300.0 REV 2.1 | NITRITE AS N                       |
| EPA 300.0 REV 2.1 | SULFATE  | EPA 300.1         | BROMATE                            |
| EPA 300.1         | BROMIDE  | EPA 300.1         | CHLORITE                           |
| EPA 317.0 REV 2   | BROMATE  | EPA 335.4 REV 1.0 | CYANIDE                            |
| EPA 353.2 REV 2   | NITRATE AS N   | EPA 353.2 REV 2   | NITRITE AS N                       |
| EPA 365.1 REV 2   | ORTHOPHOSPHATE AS P                                    | EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE<br>DIBROMIDE)         | EPA 505 REV 2.1   | ALACHLOR                           |



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**1 VAC 30 Chapter 46**

**Effective: 07/09/2019**

|                                |   |                                |  |
|--------------------------------|---|--------------------------------|--|
| EPA 505 REV 2.1                | CHLORDANE, TOTAL                                      | EPA 505 REV 2.1                | ENDRIN   |
| EPA 505 REV 2.1                | GAMMA-BHC (LINDANE,<br>GAMMA-HEXACHLOROCYCLOHEXANE)   | EPA 505 REV 2.1                | HEPTACHLOR   |
| EPA 505 REV 2.1                | HEPTACHLOR EPOXIDE                                    | EPA 505 REV 2.1                | METHOXYCHLOR   |
| EPA 505 REV 2.1                | PCBS, AS AROCLORS                                     | EPA 505 REV 2.1                | TOXAPHENE (CHLORINATED CAMPHENE)                                   |
| EPA 515.4 REV 1                | 2,4-D   | EPA 515.4 REV 1                | DALAPON  |
| EPA 515.4 REV 1                | DINOSEB<br>(2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)      | EPA 515.4 REV 1                | PENTACHLOROPHENOL  |
| EPA 515.4 REV 1                | PICLORAM  | EPA 515.4 REV 1                | SILVEX (2,4,5-TP)  |
| EPA 524.2 REV 4.1              | 1,1,1-TRICHLOROETHANE                                 | EPA 524.2 REV 4.1              | 1,1,2-TRICHLOROETHANE  |
| EPA 524.2 REV 4.1              | 1,1-DICHLOROETHYLENE                                  | EPA 524.2 REV 4.1              | 1,2,4-TRICHLOROBENZENE   |
| EPA 524.2 REV 4.1              | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE)            | EPA 524.2 REV 4.1              | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE)                        |
| EPA 524.2 REV 4.1              | 1,2-DICHLOROPROPANE                                   | EPA 524.2 REV 4.1              | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)                         |
| EPA 524.2 REV 4.1              | BENZENE   | EPA 524.2 REV 4.1              | BROMODICHLOROMETHANE   |
| EPA 524.2 REV 4.1              | BROMOFORM   | EPA 524.2 REV 4.1              | CARBON TETRACHLORIDE   |
| EPA 524.2 REV 4.1              | CHLOROBENZENE   | EPA 524.2 REV 4.1              | CHLORODIBROMOMETHANE   |
| EPA 524.2 REV 4.1              | CHLOROFORM  | EPA 524.2 REV 4.1              | CIS-1,2-DICHLOROETHYLENE   |
| EPA 524.2 REV 4.1              | ETHYLBENZENE  | EPA 524.2 REV 4.1              | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)                            |
| EPA 524.2 REV 4.1              | STYRENE   | EPA 524.2 REV 4.1              | TETRACHLOROETHENE<br>(PERCHLOROETHENE)                             |
| EPA 524.2 REV 4.1              | TOLUENE   | EPA 524.2 REV 4.1              | TOTAL TRIHALOMETHANES (TTHMS)                                      |
| EPA 524.2 REV 4.1              | TRANS-1,2-DICHLOROETHENE                              | EPA 524.2 REV 4.1              | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)                             |
| EPA 524.2 REV 4.1              | VINYL CHLORIDE (CHLOROETHENE)                         | EPA 524.2 REV 4.1              | XYLENE (TOTAL)   |
| EPA 525.2 REV 2                | ALACHLOR  | EPA 525.2 REV 2                | ATRAZINE   |
| EPA 525.2 REV 2                | BENZO(A)PYRENE  | EPA 525.2 REV 2                | BIS(2-ETHYLHEXYL) PHTHALATE<br>(DI(2-ETHYLHEXYL)PHTHALATE), (DEHP) |
| EPA 525.2 REV 2                | BIS(2-ETHYLHEXYL)ADIPATE<br>(DI(2-ETHYLHEXYL)ADIPATE) | EPA 525.2 REV 2                | CHLORDANE, TOTAL   |
| EPA 525.2 REV 2                | ENDRIN  | EPA 525.2 REV 2                | GAMMA-BHC (LINDANE,<br>GAMMA-HEXACHLOROCYCLOHEXANE)                |
| EPA 525.2 REV 2                | HEPTACHLOR  | EPA 525.2 REV 2                | HEPTACHLOR EPOXIDE   |
| EPA 525.2 REV 2                | HEXACHLOROBENZENE                                     | EPA 525.2 REV 2                | HEXACHLOROCYCLOPENTADIENE  |
| EPA 525.2 REV 2                | METHOXYCHLOR  | EPA 525.2 REV 2                | SIMAZINE   |
| EPA 531.2 REV 1                | CARBOFURAN (FURADEN)                                  | EPA 531.2 REV 1                | OXAMYL   |
| EPA 547                        | GLYPHOSATE  | EPA 548.1 REV 1                | ENDOTHALL  |
| EPA 549.2 REV 1                | DIQUAT  | EPA 551.1 REV 1                | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)                                 |
| EPA 551.1 REV 1                | 1,2-DIBROMOETHANE (EDB, ETHYLENE<br>DIBROMIDE)        | EPA 551.1 REV 1                | BROMODICHLOROMETHANE   |
| EPA 551.1 REV 1                | BROMOFORM   | EPA 551.1 REV 1                | CHLORODIBROMOMETHANE   |
| EPA 551.1 REV 1                | CHLOROFORM  | EPA 551.1 REV 1                | TOTAL TRIHALOMETHANES (TTHMS)                                      |
| EPA 552.3 REV 1                | BROMOACETIC ACID                                      | EPA 552.3 REV 1                | CHLOROACETIC ACID  |
| EPA 552.3 REV 1                | DIBROMOACETIC ACID                                    | EPA 552.3 REV 1                | DICHLOROACETIC ACID  |
| EPA 552.3 REV 1                | HALOACETIC ACIDS - FIVE (HAA5)                        | EPA 552.3 REV 1                | TRICHLOROACETIC ACID (TCAA)  |
| EPA 900.0                      | GROSS ALPHA   | EPA 900.0                      | GROSS BETA   |
| SM 2130 B-2011                 | TURBIDITY   | SM 2320 B-2011                 | ALKALINITY AS CaCO3  |
| SM 2510 B-2011                 | CONDUCTIVITY  | SM 2540 C-2011                 | RESIDUE-FILTERABLE (TDS)   |
| SM 4500-CN <sup>-</sup> F-2011 | CYANIDE   | SM 4500-CN <sup>-</sup> G-2011 | AMENABLE CYANIDE   |
| SM 4500-F <sup>-</sup> C-2011  | FLUORIDE  | SM 4500-P E-2011               | ORTHOPHOSPHATE AS P  |
| SM 4500-SiO2 C-2011            | SILICA AS SiO2  | SM 5310 C-2011                 | DISSOLVED ORGANIC CARBON (DOC)                                     |
| SM 5310 C-2011                 | TOTAL ORGANIC CARBON (TOC)                            | SM 5540 C-2011                 | SURFACTANTS - MBAS   |
| SM 5910 B-2011                 | UV 254  | SM 6251 B-2007                 | BROMOACETIC ACID   |
| SM 6251 B-2007                 | CHLOROACETIC ACID                                     | SM 6251 B-2007                 | DIBROMOACETIC ACID   |
| SM 6251 B-2007                 | DICHLOROACETIC ACID                                   | SM 6251 B-2007                 | HALOACETIC ACIDS - FIVE (HAA5)                                     |
| SM 6251 B-2007                 | TRICHLOROACETIC ACID (TCAA)                           | SM 7110 C-2011                 | GROSS ALPHA  |

**Accredited Laboratories**  
**with Drinking Water Fields of Accreditation**  
**1 VAC 30 Chapter 46**  
**Effective: 07/09/2019**

**State Hygienic Laboratory at The University of Iowa**  
 Coralville, IA

Phone: (319) 335-4236  
 DCLS Lab ID: 460267

Certificate No.: 10052

Certificate Expiration Date: 12/14/2019

| Method     | Analyte         | Method    | Analyte     |
|------------|-----------------|-----------|-------------|
| EPA 1623.1 | CRYPTOSPORIDIUM | EPA 900.0 | GROSS ALPHA |
| EPA 900.0  | GROSS BETA      | EPA 903.0 | RADIUM-226  |
| EPA 904.0  | RADIUM-228      |           |             |

**Scientific Methods, Inc.**  
 Granger, IN

Phone: (574) 277-4078  
 DCLS Lab ID: 460269

Certificate No.: 10179

Certificate Expiration Date: 03/14/2020

| Method   | Analyte         | Method | Analyte |
|----------|-----------------|--------|---------|
| EPA 1623 | CRYPTOSPORIDIUM |        |         |

**NSF International**  
 Ann Arbor, MI

Phone: (734) 827-6837  
 DCLS Lab ID: 460270

Certificate No.: 10195

Certificate Expiration Date: 03/14/2020

| Method            | Analyte  | Method            | Analyte  |
|-------------------|--|-------------------|--|
| EPA 00-02         | GROSS ALPHA                                    | EPA 1613          | 2,3,7,8-TETRACHLORODIBENZO- P-DIOXIN<br>(2,3,7,8-TCDD) |
| EPA 200.7 REV 4.4 | IRON   | EPA 200.7 REV 4.4 | SODIUM   |
| EPA 200.8 REV 5.4 | ALUMINUM                                       | EPA 200.8 REV 5.4 | ANTIMONY   |
| EPA 200.8 REV 5.4 | ARSENIC  | EPA 200.8 REV 5.4 | BARIUM   |
| EPA 200.8 REV 5.4 | BERYLLIUM                                      | EPA 200.8 REV 5.4 | CADMIUM  |
| EPA 200.8 REV 5.4 | CHROMIUM                                       | EPA 200.8 REV 5.4 | COPPER   |
| EPA 200.8 REV 5.4 | LEAD   | EPA 200.8 REV 5.4 | MANGANESE  |
| EPA 200.8 REV 5.4 | MERCURY  | EPA 200.8 REV 5.4 | NICKEL   |
| EPA 200.8 REV 5.4 | SELENIUM                                       | EPA 200.8 REV 5.4 | SILVER   |
| EPA 200.8 REV 5.4 | THALLIUM                                       | EPA 200.8 REV 5.4 | URANIUM  |
| EPA 200.8 REV 5.4 | ZINC   | EPA 300.0 REV 2.1 | CHLORIDE   |
| EPA 300.0 REV 2.1 | NITRATE AS N                                   | EPA 300.0 REV 2.1 | NITRITE AS N   |
| EPA 300.0 REV 2.1 | SULFATE  | EPA 300.1         | BROMATE  |
| EPA 300.1         | BROMIDE  | EPA 300.1         | CHLORITE   |
| EPA 335.4 REV 1.0 | CYANIDE  | EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)                     |
| EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE<br>DIBROMIDE) | EPA 508.1 REV 2   | CHLORDANE, TOTAL                                       |
| EPA 508.1 REV 2   | ENDRIN   | EPA 508.1 REV 2   | PCBS, AS AROCLORS                                      |
| EPA 508.1 REV 2   | TOXAPHENE (CHLORINATED CAMPHENE)               | EPA 515.3 REV 1   | 2,4-D  |
| EPA 515.3 REV 1   | DALAPON  | EPA 515.3 REV 1   | DINOSEB<br>(2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)       |
| EPA 515.3 REV 1   | PENTACHLOROPHENOL                              | EPA 515.3 REV 1   | PICLORAM   |
| EPA 515.3 REV 1   | SILVEX (2,4,5-TP)                              | EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                                  |
| EPA 524.2 REV 4.1 | 1,1,2-TRICHLOROETHANE                          | EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                                   |
| EPA 524.2 REV 4.1 | 1,2,4-TRICHLOROBENZENE                         | EPA 524.2 REV 4.1 | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE)             |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE)    | EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE                                    |
| EPA 524.2 REV 4.1 | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)     | EPA 524.2 REV 4.1 | BENZENE  |
| EPA 524.2 REV 4.1 | BROMODICHLOROMETHANE                           | EPA 524.2 REV 4.1 | BROMOFORM  |

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**Effective: 07/09/2019**

|                             |   |                               |  |
|-----------------------------|---|-------------------------------|--|
| EPA 524.2 REV 4.1           | CARBON TETRACHLORIDE                                  | EPA 524.2 REV 4.1             | CHLOROBENZENE  |
| EPA 524.2 REV 4.1           | CHLORODIBROMOMETHANE                                  | EPA 524.2 REV 4.1             | CHLOROFORM   |
| EPA 524.2 REV 4.1           | CIS-1,2-DICHLOROETHYLENE                              | EPA 524.2 REV 4.1             | ETHYLBENZENE   |
| EPA 524.2 REV 4.1           | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)               | EPA 524.2 REV 4.1             | STYRENE  |
| EPA 524.2 REV 4.1           | TETRACHLOROETHENE<br>(PERCHLOROETHENE)                | EPA 524.2 REV 4.1             | TOLUENE  |
| EPA 524.2 REV 4.1           | TRANS-1,2-DICHLOROETHENE                              | EPA 524.2 REV 4.1             | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)                             |
| EPA 524.2 REV 4.1           | VINYL CHLORIDE (CHLOROETHENE)                         | EPA 524.2 REV 4.1             | XYLENE (TOTAL)   |
| EPA 525.2 REV 2             | ALACHLOR  | EPA 525.2 REV 2               | ATRAZINE   |
| EPA 525.2 REV 2             | BENZO(A)PYRENE  | EPA 525.2 REV 2               | BIS(2-ETHYLHEXYL) PHTHALATE<br>(DI(2-ETHYLHEXYL)PHTHALATE), (DEHP) |
| EPA 525.2 REV 2             | BIS(2-ETHYLHEXYL)ADIPATE<br>(DI(2-ETHYLHEXYL)ADIPATE) | EPA 525.2 REV 2               | GAMMA-BHC (LINDANE,<br>GAMMA-HEXACHLOROCYCLOHEXANE)                |
| EPA 525.2 REV 2             | HEPTACHLOR  | EPA 525.2 REV 2               | HEPTACHLOR EPOXIDE   |
| EPA 525.2 REV 2             | HEXACHLOROBENZENE                                     | EPA 525.2 REV 2               | HEXACHLOROCYCLOPENTADIENE  |
| EPA 525.2 REV 2             | METHOXYCHLOR  | EPA 525.2 REV 2               | SIMAZINE   |
| EPA 531.2 REV 1             | CARBOFURAN (FURADEN)                                  | EPA 531.2 REV 1               | OXAMYL   |
| EPA 547                     | GLYPHOSATE  | EPA 548.1 REV 1               | ENDOTHALL  |
| EPA 549.2 REV 1             | DIQUAT  | EPA 552.2 REV 1               | BROMOACETIC ACID   |
| EPA 552.2 REV 1             | CHLOROACETIC ACID                                     | EPA 552.2 REV 1               | DIBROMOACETIC ACID   |
| EPA 552.2 REV 1             | DICHLOROACETIC ACID                                   | EPA 552.2 REV 1               | TRICHLOROACETIC ACID (TCAA)  |
| EPA 900.0                   | GROSS ALPHA   | EPA 900.0                     | GROSS BETA   |
| SM 2120 B-2011              | COLOR   | SM 2320 B-2011                | ALKALINITY AS CaCO <sub>3</sub>                                    |
| SM 2540 C-2011              | RESIDUE-FILTERABLE (TDS)                              | SM 4500-F <sup>-</sup> C-2011 | FLUORIDE   |
| SM 7500-RA B (GPC)<br>-2011 | RADIUM-226  | SM 7500-RA D-2011             | RADIUM-228   |
| SM 9215 B-2004              | HETEROTROPHIC PLATE COUNT                             | SM 9223 COLILERT P/A          | ESCHERICHIA COLI   |
| SM 9223 COLILERT P/A        | TOTAL COLIFORMS                                       |                               |  |

**AMA Analytical Services Inc.**

Lanham, MD

Phone: (301) 459-2640

DCLS Lab ID: 460271

Certificate No.: 10213

Certificate Expiration Date: 03/14/2020

| Method         | Analyte | Method         | Analyte |
|----------------|---------|----------------|---------|
| SM 3111 B-2011 | COPPER  | SM 3113 B-2010 | LEAD    |

**Analytical Services, Inc.**

Williston, VT

Phone: (802) 878-5138

DCLS Lab ID: 460272

Certificate No.: 10184

Certificate Expiration Date: 03/14/2020

| Method                     | Analyte          | Method     | Analyte         |
|----------------------------|------------------|------------|-----------------|
| EPA 1623                   | CRYPTOSPORIDIUM  | EPA 1623.1 | CRYPTOSPORIDIUM |
| SM 9223 COLILERT-18<br>MPN | ESCHERICHIA COLI |            |                 |

**American Water Central Laboratory**

Belleville, IL

Phone: (618) 235-3600

DCLS Lab ID: 460274

Certificate No.: 10204

Certificate Expiration Date: 03/14/2020

| Method            | Analyte   | Method            | Analyte |
|-------------------|-----------|-------------------|---------|
| EPA 180.1 REV 2   | TURBIDITY | EPA 200.7 REV 4.4 | CALCIUM |
| EPA 200.7 REV 4.4 | CHROMIUM  | EPA 200.7 REV 4.4 | IRON    |

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Effective: 07/09/2019**

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| EPA 200.7 REV 4.4 | MAGNESIUM   | EPA 200.7 REV 4.4 | SILICA AS SIO2   |
| EPA 200.7 REV 4.4 | SODIUM  | EPA 200.8 REV 5.4 | ALUMINUM   |
| EPA 200.8 REV 5.4 | ANTIMONY  | EPA 200.8 REV 5.4 | ARSENIC  |
| EPA 200.8 REV 5.4 | BARIUM  | EPA 200.8 REV 5.4 | BERYLLIUM  |
| EPA 200.8 REV 5.4 | CADMIUM   | EPA 200.8 REV 5.4 | COPPER   |
| EPA 200.8 REV 5.4 | LEAD  | EPA 200.8 REV 5.4 | MANGANESE  |
| EPA 200.8 REV 5.4 | MERCURY   | EPA 200.8 REV 5.4 | NICKEL   |
| EPA 200.8 REV 5.4 | SELENIUM  | EPA 200.8 REV 5.4 | SILVER   |
| EPA 200.8 REV 5.4 | THALLIUM  | EPA 200.8 REV 5.4 | ZINC   |
| EPA 245.1 REV 3   | MERCURY   | EPA 300.0 REV 2.1 | CHLORIDE   |
| EPA 300.0 REV 2.1 | FLUORIDE  | EPA 300.0 REV 2.1 | NITRATE AS N   |
| EPA 300.0 REV 2.1 | NITRITE AS N  | EPA 300.0 REV 2.1 | ORTHOPHOSPHATE AS P  |
| EPA 300.0 REV 2.1 | SULFATE   | EPA 300.1         | BROMATE  |
| EPA 300.1         | BROMIDE   | EPA 300.1         | CHLORITE   |
| EPA 335.4 REV 1.0 | CYANIDE   | EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)                                 |
| EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE<br>DIBROMIDE)        | EPA 505 REV 2.1   | CHLORDANE, TOTAL   |
| EPA 505 REV 2.1   | PCBS, AS AROCLORS                                     | EPA 505 REV 2.1   | TOXAPHENE (CHLORINATED CAMPHENE)                                   |
| EPA 515.3 REV 1   | 2,4-D   | EPA 515.3 REV 1   | DALAPON  |
| EPA 515.3 REV 1   | DINOSEB<br>(2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)      | EPA 515.3 REV 1   | PENTACHLOROPHENOL  |
| EPA 515.3 REV 1   | PICLORAM  | EPA 515.3 REV 1   | SILVEX (2,4,5-TP)  |
| EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                                 | EPA 524.2 REV 4.1 | 1,1,2-TRICHLOROETHANE  |
| EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                                  | EPA 524.2 REV 4.1 | 1,2,4-TRICHLOROBENZENE   |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE)            | EPA 524.2 REV 4.1 | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE)                        |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE                                   | EPA 524.2 REV 4.1 | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)                         |
| EPA 524.2 REV 4.1 | BENZENE   | EPA 524.2 REV 4.1 | BROMODICHLOROMETHANE   |
| EPA 524.2 REV 4.1 | BROMOFORM   | EPA 524.2 REV 4.1 | CARBON TETRACHLORIDE   |
| EPA 524.2 REV 4.1 | CHLOROBENZENE   | EPA 524.2 REV 4.1 | CHLORODIBROMOMETHANE   |
| EPA 524.2 REV 4.1 | CHLOROFORM  | EPA 524.2 REV 4.1 | CIS-1,2-DICHLOROETHYLENE   |
| EPA 524.2 REV 4.1 | ETHYLBENZENE  | EPA 524.2 REV 4.1 | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)                            |
| EPA 524.2 REV 4.1 | STYRENE   | EPA 524.2 REV 4.1 | TETRACHLOROETHENE<br>(PERCHLOROETHENE)                             |
| EPA 524.2 REV 4.1 | TOLUENE   | EPA 524.2 REV 4.1 | TOTAL TRIHALOMETHANES (TTHMS)                                      |
| EPA 524.2 REV 4.1 | TRANS-1,2-DICHLOROETHENE                              | EPA 524.2 REV 4.1 | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)                             |
| EPA 524.2 REV 4.1 | VINYL CHLORIDE (CHLOROETHENE)                         | EPA 524.2 REV 4.1 | XYLENE (TOTAL)   |
| EPA 525.2 REV 2   | ALACHLOR  | EPA 525.2 REV 2   | ATRAZINE   |
| EPA 525.2 REV 2   | BENZO(A)PYRENE  | EPA 525.2 REV 2   | BIS(2-ETHYLHEXYL) PHTHALATE<br>(DI(2-ETHYLHEXYL)PHTHALATE), (DEHP) |
| EPA 525.2 REV 2   | BIS(2-ETHYLHEXYL)ADIPATE<br>(DI(2-ETHYLHEXYL)ADIPATE) | EPA 525.2 REV 2   | ENDRIN   |
| EPA 525.2 REV 2   | GAMMA-BHC (LINDANE,<br>GAMMA-HEXACHLOROCYCLOHEXANE)   | EPA 525.2 REV 2   | HEPTACHLOR   |
| EPA 525.2 REV 2   | HEPTACHLOR EPOXIDE                                    | EPA 525.2 REV 2   | HEXACHLOROBENZENE  |
| EPA 525.2 REV 2   | HEXACHLOROCYCLOPENTADIENE                             | EPA 525.2 REV 2   | METHOXYCHLOR   |
| EPA 525.2 REV 2   | SIMAZINE  | EPA 531.1 REV 3.1 | CARBOFURAN (FURADEN)   |
| EPA 531.1 REV 3.1 | OXAMYL  | EPA 547           | GLYPHOSATE   |
| EPA 548.1 REV 1   | ENDOTHALL   | EPA 549.2 REV 1   | DIQUAT   |
| EPA 552.3 REV 1   | BROMOACETIC ACID                                      | EPA 552.3 REV 1   | CHLOROACETIC ACID  |
| EPA 552.3 REV 1   | DIBROMOACETIC ACID                                    | EPA 552.3 REV 1   | DICHLOROACETIC ACID  |
| EPA 552.3 REV 1   | HALOACETIC ACIDS - FIVE (HAA5)                        | EPA 552.3 REV 1   | TRICHLOROACETIC ACID (TCAA)  |
| SM 2120 B-2011    | COLOR   | SM 2320 B-2011    | ALKALINITY AS CaCO3  |
| SM 2510 B-2011    | CONDUCTIVITY  | SM 2540 C-2011    | RESIDUE-FILTERABLE (TDS)   |
| SM 5310 C-2011    | DISSOLVED ORGANIC CARBON (DOC)                        | SM 5310 C-2011    | TOTAL ORGANIC CARBON (TOC)   |
| SM 5910 B-2011    | UV 254  |                   |  |

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**1 VAC 30 Chapter 46**  
**Effective: 07/09/2019**

**Eurofins Eaton Analytical, LLC**  
 South Bend, IN

Phone: (574) 472-5523  
 DCLS Lab ID: 460275

Certificate No.: 10186

Certificate Expiration Date: 03/14/2020

| Method            | Analyte  | Method            | Analyte   |
|-------------------|--|-------------------|---|
| EPA 1623          | CRYPTOSPORIDIUM  | EPA 180.1 REV 2   | TURBIDITY   |
| EPA 200.7 REV 4.4 | CALCIUM  | EPA 200.7 REV 4.4 | IRON  |
| EPA 200.7 REV 4.4 | MAGNESIUM  | EPA 200.7 REV 4.4 | SILICA AS SIO2  |
| EPA 200.7 REV 4.4 | SODIUM   | EPA 200.8 REV 5.4 | ALUMINUM  |
| EPA 200.8 REV 5.4 | ANTIMONY   | EPA 200.8 REV 5.4 | ARSENIC   |
| EPA 200.8 REV 5.4 | BARIUM   | EPA 200.8 REV 5.4 | BERYLLIUM   |
| EPA 200.8 REV 5.4 | CADMIUM  | EPA 200.8 REV 5.4 | CHROMIUM  |
| EPA 200.8 REV 5.4 | COPPER   | EPA 200.8 REV 5.4 | LEAD  |
| EPA 200.8 REV 5.4 | MANGANESE  | EPA 200.8 REV 5.4 | NICKEL  |
| EPA 200.8 REV 5.4 | SELENIUM   | EPA 200.8 REV 5.4 | SILVER  |
| EPA 200.8 REV 5.4 | THALLIUM   | EPA 200.8 REV 5.4 | URANIUM   |
| EPA 200.8 REV 5.4 | ZINC   | EPA 245.1 REV 3   | MERCURY   |
| EPA 300.0 REV 2.1 | BROMIDE  | EPA 300.0 REV 2.1 | CHLORIDE  |
| EPA 300.0 REV 2.1 | CHLORITE   | EPA 300.0 REV 2.1 | FLUORIDE  |
| EPA 300.0 REV 2.1 | NITRATE AS N   | EPA 300.0 REV 2.1 | SULFATE   |
| EPA 300.1         | BROMATE  | EPA 317.0 REV 2   | BROMATE   |
| EPA 335.4 REV 1.0 | CYANIDE  | EPA 353.2 REV 2   | NITRATE AS N  |
| EPA 353.2 REV 2   | NITRATE/NITRITE  | EPA 353.2 REV 2   | NITRITE AS N  |
| EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)                                 | EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)           |
| EPA 505 REV 2.1   | CHLORDANE, TOTAL   | EPA 505 REV 2.1   | PCBS, AS AROCLORS                                     |
| EPA 505 REV 2.1   | TOXAPHENE (CHLORINATED CAMPHENE)                                   | EPA 515.3 REV 1   | 2,4-D   |
| EPA 515.3 REV 1   | DALAPON  | EPA 515.3 REV 1   | DINOSEB<br>(2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)      |
| EPA 515.3 REV 1   | PENTACHLOROPHENOL  | EPA 515.3 REV 1   | PICLORAM  |
| EPA 515.3 REV 1   | SILVEX (2,4,5-TP)  | EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                                 |
| EPA 524.2 REV 4.1 | 1,1,2-TRICHLOROETHANE  | EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                                  |
| EPA 524.2 REV 4.1 | 1,2,4-TRICHLOROBENZENE   | EPA 524.2 REV 4.1 | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE)            |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)                           | EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE                                   |
| EPA 524.2 REV 4.1 | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)                         | EPA 524.2 REV 4.1 | BENZENE   |
| EPA 524.2 REV 4.1 | BROMODICHLOROMETHANE   | EPA 524.2 REV 4.1 | BROMOFORM   |
| EPA 524.2 REV 4.1 | CARBON TETRACHLORIDE   | EPA 524.2 REV 4.1 | CHLOROBENZENE   |
| EPA 524.2 REV 4.1 | CHLORODIBROMOMETHANE   | EPA 524.2 REV 4.1 | CHLOROFORM  |
| EPA 524.2 REV 4.1 | CIS-1,2-DICHLOROETHYLENE   | EPA 524.2 REV 4.1 | ETHYLBENZENE  |
| EPA 524.2 REV 4.1 | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)                            | EPA 524.2 REV 4.1 | STYRENE   |
| EPA 524.2 REV 4.1 | TETRACHLOROETHENE<br>(PERCHLOROETHENE)                             | EPA 524.2 REV 4.1 | TOLUENE   |
| EPA 524.2 REV 4.1 | TOTAL TRIHALOMETHANES (TTHMS)                                      | EPA 524.2 REV 4.1 | TRANS-1,2-DICHLOROETHENE                              |
| EPA 524.2 REV 4.1 | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)                             | EPA 524.2 REV 4.1 | VINYL CHLORIDE (CHLOROETHENE)                         |
| EPA 524.2 REV 4.1 | XYLENE (TOTAL)   | EPA 525.2 REV 2   | ALACHLOR  |
| EPA 525.2 REV 2   | ATRAZINE   | EPA 525.2 REV 2   | BENZO(A)PYRENE  |
| EPA 525.2 REV 2   | BIS(2-ETHYLHEXYL) PHTHALATE<br>(DI(2-ETHYLHEXYL)PHTHALATE), (DEHP) | EPA 525.2 REV 2   | BIS(2-ETHYLHEXYL)ADIPATE<br>(DI(2-ETHYLHEXYL)ADIPATE) |
| EPA 525.2 REV 2   | ENDRIN   | EPA 525.2 REV 2   | GAMMA-BHC (LINDANE,<br>GAMMA-HEXACHLOROCYCLOHEXANE)   |
| EPA 525.2 REV 2   | HEPTACHLOR   | EPA 525.2 REV 2   | HEPTACHLOR EPOXIDE                                    |
| EPA 525.2 REV 2   | HEXACHLOROBENZENE  | EPA 525.2 REV 2   | HEXACHLOROCYCLOPENTADIENE                             |
| EPA 525.2 REV 2   | METHOXYCHLOR   | EPA 525.2 REV 2   | SIMAZINE  |

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|                               |                                |                   |                                 |
|-------------------------------|--------------------------------|-------------------|---------------------------------|
| EPA 531.2 REV 1               | CARBOFURAN (FURADEN)           | EPA 531.2 REV 1   | OXAMYL                          |
| EPA 547                       | GLYPHOSATE                     | EPA 548.1 REV 1   | ENDOTHALL                       |
| EPA 549.2 REV 1               | DIQUAT                         | EPA 551.1 REV 1   | BROMODICHLOROMETHANE            |
| EPA 551.1 REV 1               | BROMOFORM                      | EPA 551.1 REV 1   | CHLORODIBROMOMETHANE            |
| EPA 551.1 REV 1               | CHLOROFORM                     | EPA 551.1 REV 1   | TOTAL TRIHALOMETHANES (TTHMS)   |
| EPA 552.2 REV 1               | BROMOACETIC ACID               | EPA 552.2 REV 1   | CHLOROACETIC ACID               |
| EPA 552.2 REV 1               | DIBROMOACETIC ACID             | EPA 552.2 REV 1   | DICHLOROACETIC ACID             |
| EPA 552.2 REV 1               | HALOACETIC ACIDS - FIVE (HAA5) | EPA 552.2 REV 1   | TRICHLOROACETIC ACID (TCAA)     |
| EPA 552.3 REV 1               | BROMOACETIC ACID               | EPA 552.3 REV 1   | CHLOROACETIC ACID               |
| EPA 552.3 REV 1               | DIBROMOACETIC ACID             | EPA 552.3 REV 1   | DICHLOROACETIC ACID             |
| EPA 552.3 REV 1               | HALOACETIC ACIDS - FIVE (HAA5) | EPA 552.3 REV 1   | TRICHLOROACETIC ACID (TCAA)     |
| EPA 906.0                     | TRITIUM                        | SIMPLATE          | HETEROTROPHIC PLATE COUNT       |
| SM 2120 B-2011                | COLOR                          | SM 2320 B-2011    | ALKALINITY AS CaCO <sub>3</sub> |
| SM 2510 B-2011                | CONDUCTIVITY                   | SM 2540 C-2011    | RESIDUE-FILTERABLE (TDS)        |
| SM 4500-F <sup>-</sup> C-2011 | FLUORIDE                       | SM 4500-P E-2011  | ORTHOPHOSPHATE AS P             |
| SM 5310 C-2011                | DISSOLVED ORGANIC CARBON (DOC) | SM 5310 C-2011    | TOTAL ORGANIC CARBON (TOC)      |
| SM 5910 B-2011                | UV 254                         | SM 7110 B-2011    | GROSS ALPHA                     |
| SM 7110 B-2011                | GROSS BETA                     | SM 7110 C-2011    | GROSS ALPHA                     |
| SM 7500-RA B (GPC)<br>-2011   | RADIUM-226                     | SM 7500-RA D-2011 | RADIUM-228                      |
| SM 9223 COLILERT<br>MPN       | ESCHERICHIA COLI               | SM 9223 COLISURE® | ESCHERICHIA COLI                |
| SM 9223 COLISURE®             | TOTAL COLIFORMS                |                   |                                 |

**Florida Radiochemistry Services, Inc.**  
Orlando, FL

Phone: (407) 382-7733  
DCLS Lab ID: 460276

Certificate No.: 10207

Certificate Expiration Date: 03/14/2020

| <b>Method</b> | <b>Analyte</b> | <b>Method</b> | <b>Analyte</b> |
|---------------|----------------|---------------|----------------|
| EPA 900.0     | GROSS ALPHA    | EPA 900.0     | GROSS BETA     |
| EPA 903.0     | RADIUM-226     | EPA 903.1     | RADIUM-226     |
| EPA 908.0     | URANIUM        | EPA RA-05     | RADIUM-228     |

**Microbac Laboratories, Inc. - Dayville, CT**  
Dayville, CT

Phone: (860) 774-6814  
DCLS Lab ID: 460279

Certificate No.: 10393

Certificate Expiration Date: 06/14/2020

| <b>Method</b>     | <b>Analyte</b> | <b>Method</b>     | <b>Analyte</b> |
|-------------------|----------------|-------------------|----------------|
| EPA 200.7 REV 4.4 | BARIUM         | EPA 200.7 REV 4.4 | BERYLLIUM      |
| EPA 200.7 REV 4.4 | CADMIUM        | EPA 200.7 REV 4.4 | CALCIUM        |
| EPA 200.7 REV 4.4 | CHROMIUM       | EPA 200.7 REV 4.4 | COPPER         |
| EPA 200.7 REV 4.4 | IRON           | EPA 200.7 REV 4.4 | MAGNESIUM      |
| EPA 200.7 REV 4.4 | MANGANESE      | EPA 200.7 REV 4.4 | NICKEL         |
| EPA 200.7 REV 4.4 | SILVER         | EPA 200.7 REV 4.4 | SODIUM         |
| EPA 200.7 REV 4.4 | ZINC           | EPA 200.8 REV 5.4 | ALUMINUM       |
| EPA 200.8 REV 5.4 | ANTIMONY       | EPA 200.8 REV 5.4 | ARSENIC        |
| EPA 200.8 REV 5.4 | BARIUM         | EPA 200.8 REV 5.4 | BERYLLIUM      |
| EPA 200.8 REV 5.4 | CADMIUM        | EPA 200.8 REV 5.4 | CHROMIUM       |
| EPA 200.8 REV 5.4 | COPPER         | EPA 200.8 REV 5.4 | LEAD           |
| EPA 200.8 REV 5.4 | MANGANESE      | EPA 200.8 REV 5.4 | NICKEL         |
| EPA 200.8 REV 5.4 | SELENIUM       | EPA 200.8 REV 5.4 | SILVER         |
| EPA 200.8 REV 5.4 | THALLIUM       | EPA 200.8 REV 5.4 | URANIUM        |
| EPA 200.8 REV 5.4 | ZINC           | EPA 245.2         | MERCURY        |

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**Effective: 07/09/2019**

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|-------------------|---|-------------------|--|
| EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)                    | EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)                        |
| EPA 505 REV 2.1   | ALACHLOR  | EPA 505 REV 2.1   | CHLORDANE, TOTAL   |
| EPA 505 REV 2.1   | ENDRIN  | EPA 505 REV 2.1   | GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)                   |
| EPA 505 REV 2.1   | HEPTACHLOR  | EPA 505 REV 2.1   | HEPTACHLOR EPOXIDE   |
| EPA 505 REV 2.1   | HEXACHLOROBENZENE                                     | EPA 505 REV 2.1   | HEXACHLOROCYCLOPENTADIENE  |
| EPA 505 REV 2.1   | METHOXYCHLOR  | EPA 505 REV 2.1   | TOXAPHENE (CHLORINATED CAMPHENE)                                   |
| EPA 515.3 REV 1   | 2,4-D   | EPA 515.3 REV 1   | DALAPON  |
| EPA 515.3 REV 1   | DINOSEB<br>(2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)      | EPA 515.3 REV 1   | PENTACHLOROPHENOL  |
| EPA 515.3 REV 1   | PICLORAM  | EPA 515.3 REV 1   | SILVEX (2,4,5-TP)  |
| EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                                 | EPA 524.2 REV 4.1 | 1,1,2-TRICHLOROETHANE  |
| EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                                  | EPA 524.2 REV 4.1 | 1,2,4-TRICHLOROETHANE  |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROETHYLENE<br>(O-DICHLOROETHYLENE)          | EPA 524.2 REV 4.1 | 1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)                           |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE                                   | EPA 524.2 REV 4.1 | 1,4-DICHLOROETHANE<br>(P-DICHLOROETHYLENE)                         |
| EPA 524.2 REV 4.1 | BENZENE   | EPA 524.2 REV 4.1 | BROMODICHLOROMETHANE   |
| EPA 524.2 REV 4.1 | BROMOFORM   | EPA 524.2 REV 4.1 | CARBON TETRACHLORIDE   |
| EPA 524.2 REV 4.1 | CHLOROETHYLENE  | EPA 524.2 REV 4.1 | CHLORODIBROMOMETHANE   |
| EPA 524.2 REV 4.1 | CHLOROFORM  | EPA 524.2 REV 4.1 | CIS-1,2-DICHLOROETHYLENE   |
| EPA 524.2 REV 4.1 | ETHYLBENZENE  | EPA 524.2 REV 4.1 | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)                            |
| EPA 524.2 REV 4.1 | STYRENE   | EPA 524.2 REV 4.1 | TETRACHLOROETHYLENE<br>(PERCHLOROETHYLENE)                         |
| EPA 524.2 REV 4.1 | TOLUENE   | EPA 524.2 REV 4.1 | TOTAL TRIHALOMETHANES (TTHMS)                                      |
| EPA 524.2 REV 4.1 | TRANS-1,2-DICHLOROETHYLENE                            | EPA 524.2 REV 4.1 | TRICHLOROETHYLENE<br>(TRICHLOROETHYLENE)                           |
| EPA 524.2 REV 4.1 | VINYL CHLORIDE (CHLOROETHYLENE)                       | EPA 524.2 REV 4.1 | XYLENE (TOTAL)   |
| EPA 525.2 REV 2   | ALACHLOR  | EPA 525.2 REV 2   | ATRAZINE   |
| EPA 525.2 REV 2   | BENZO(A)PYRENE  | EPA 525.2 REV 2   | BIS(2-ETHYLHEXYL) PHTHALATE<br>(DI(2-ETHYLHEXYL)PHTHALATE), (DEHP) |
| EPA 525.2 REV 2   | BIS(2-ETHYLHEXYL)ADIPATE<br>(DI(2-ETHYLHEXYL)ADIPATE) | EPA 525.2 REV 2   | ENDRIN   |
| EPA 525.2 REV 2   | GAMMA-BHC (LINDANE,<br>GAMMA-HEXACHLOROCYCLOHEXANE)   | EPA 525.2 REV 2   | HEPTACHLOR   |
| EPA 525.2 REV 2   | HEPTACHLOR EPOXIDE                                    | EPA 525.2 REV 2   | HEXACHLOROBENZENE  |
| EPA 525.2 REV 2   | HEXACHLOROCYCLOPENTADIENE                             | EPA 525.2 REV 2   | METHOXYCHLOR   |
| EPA 525.2 REV 2   | SIMAZINE  | EPA 531.2 REV 1   | CARBOFURAN (FURADEN)   |
| EPA 531.2 REV 1   | OXAMYL  | EPA 547           | GLYPHOSATE   |
| EPA 552.2 REV 1   | BROMOACETIC ACID                                      | EPA 552.2 REV 1   | CHLOROACETIC ACID  |
| EPA 552.2 REV 1   | DIBROMOACETIC ACID                                    | EPA 552.2 REV 1   | DICHLOROACETIC ACID  |
| EPA 552.2 REV 1   | HALOACETIC ACIDS - FIVE (HAA5)                        | EPA 552.2 REV 1   | TRICHLOROACETIC ACID (TCAA)  |

**Microbac Laboratories Inc., Baltimore Division**

Baltimore, MD

Certificate No.: 10190

Certificate Expiration Date: 03/14/2020

Phone:

DCLS Lab ID: 460285

| <b>Method</b>     | <b>Analyte</b> | <b>Method</b>     | <b>Analyte</b> |
|-------------------|----------------|-------------------|----------------|
| EPA 180.1 REV 2   | TURBIDITY      | EPA 200.7 REV 4.4 | ALUMINUM       |
| EPA 200.7 REV 4.4 | BARIUM         | EPA 200.7 REV 4.4 | BERYLLIUM      |
| EPA 200.7 REV 4.4 | CADMIUM        | EPA 200.7 REV 4.4 | CALCIUM        |
| EPA 200.7 REV 4.4 | CHROMIUM       | EPA 200.7 REV 4.4 | IRON           |
| EPA 200.7 REV 4.4 | MAGNESIUM      | EPA 200.7 REV 4.4 | MANGANESE      |
| EPA 200.7 REV 4.4 | NICKEL         | EPA 200.7 REV 4.4 | SILICA AS SIO2 |
| EPA 200.7 REV 4.4 | SILVER         | EPA 200.7 REV 4.4 | SODIUM         |
| EPA 200.7 REV 4.4 | ZINC           | EPA 200.8 REV 5.4 | ALUMINUM       |
| EPA 200.8 REV 5.4 | ANTIMONY       | EPA 200.8 REV 5.4 | ARSENIC        |

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**1 VAC 30 Chapter 46**

**Effective: 07/09/2019**

|                      |                          |                      |                           |
|----------------------|--------------------------|----------------------|---------------------------|
| EPA 200.8 REV 5.4    | BARIUM                   | EPA 200.8 REV 5.4    | BERYLLIUM                 |
| EPA 200.8 REV 5.4    | CADMIUM                  | EPA 200.8 REV 5.4    | CHROMIUM                  |
| EPA 200.8 REV 5.4    | COPPER                   | EPA 200.8 REV 5.4    | LEAD                      |
| EPA 200.8 REV 5.4    | MANGANESE                | EPA 200.8 REV 5.4    | NICKEL                    |
| EPA 200.8 REV 5.4    | SELENIUM                 | EPA 200.8 REV 5.4    | SILVER                    |
| EPA 200.8 REV 5.4    | THALLIUM                 | EPA 200.8 REV 5.4    | ZINC                      |
| EPA 245.1 REV 3      | MERCURY                  | EPA 300.0 REV 2.1    | CHLORIDE                  |
| EPA 300.0 REV 2.1    | FLUORIDE                 | EPA 300.0 REV 2.1    | NITRATE AS N              |
| EPA 300.0 REV 2.1    | NITRITE AS N             | EPA 300.0 REV 2.1    | ORTHOPHOSPHATE AS P       |
| EPA 300.0 REV 2.1    | SULFATE                  | EPA 335.4 REV 1.0    | CYANIDE                   |
| EPA 353.2 REV 2      | NITRATE AS N             | EPA 353.2 REV 2      | NITRATE/NITRITE           |
| EPA 353.2 REV 2      | NITRITE AS N             | OIA-1677, DW         | CYANIDE                   |
| SM 2120 B-2011       | COLOR                    | SM 2150 B-2011       | ODOR                      |
| SM 2320 B-2011       | ALKALINITY AS CaCO3      | SM 2510 B-2011       | CONDUCTIVITY              |
| SM 2540 C-2011       | RESIDUE-FILTERABLE (TDS) | SM 4500-CL G-2011    | RESIDUAL FREE CHLORINE    |
| SM 4500-H+ B-2011    | PH                       | SM 4500-P E-2011     | ORTHOPHOSPHATE AS P       |
| SM 5540 C-2011       | SURFACTANTS - MBAS       | SM 9215 B-2004       | HETEROTROPHIC PLATE COUNT |
| SM 9223 COLILERT     | ESCHERICHIA COLI         | SM 9223 COLILERT     | TOTAL COLIFORMS           |
| MPN                  |                          | MPN                  |                           |
| SM 9223 COLILERT P/A | ESCHERICHIA COLI         | SM 9223 COLILERT P/A | TOTAL COLIFORMS           |

**Charlotte Water - Environmental Laboratory Services**

Charlotte, NC

Phone: (704) 336-3690

DCLS Lab ID: 460286

Certificate No.: 10174

Certificate Expiration Date: 03/14/2020

| <b>Method</b> | <b>Analyte</b>  | <b>Method</b>           | <b>Analyte</b>   |
|---------------|-----------------|-------------------------|------------------|
| EPA 1623      | CRYPTOSPORIDIUM | SM 9223 COLILERT<br>MPN | ESCHERICHIA COLI |

**Cornwell Engineering Group Laboratory**

Newport News, VA

Phone: (757) 873-1216

DCLS Lab ID: 460298

Certificate No.: 10462

Certificate Expiration Date: 06/14/2020

| <b>Method</b>     | <b>Analyte</b>                | <b>Method</b>     | <b>Analyte</b>                 |
|-------------------|-------------------------------|-------------------|--------------------------------|
| EPA 200.9 REV 2.2 | COPPER                        | EPA 200.9 REV 2.2 | LEAD                           |
| EPA 551.1 REV 1   | BROMODICHLOROMETHANE          | EPA 551.1 REV 1   | BROMOFORM                      |
| EPA 551.1 REV 1   | CHLORODIBROMOMETHANE          | EPA 551.1 REV 1   | CHLOROFORM                     |
| EPA 551.1 REV 1   | TOTAL TRIHALOMETHANES (TTHMS) | EPA 552.2 REV 1   | BROMOACETIC ACID               |
| EPA 552.2 REV 1   | CHLOROACETIC ACID             | EPA 552.2 REV 1   | DIBROMOACETIC ACID             |
| EPA 552.2 REV 1   | DICHLOROACETIC ACID           | EPA 552.2 REV 1   | HALOACETIC ACIDS - FIVE (HAA5) |
| EPA 552.2 REV 1   | TRICHLOROACETIC ACID (TCAA)   | SM 2130 B-2011    | TURBIDITY                      |
| SM 2320 B-2011    | ALKALINITY AS CaCO3           | SM 5310 C-2011    | DISSOLVED ORGANIC CARBON (DOC) |
| SM 5310 C-2011    | TOTAL ORGANIC CARBON (TOC)    | SM 5910 B-2011    | UV 254                         |

**Blue Ridge Analytical LLC**

Wytheville, VA

Phone: (276) 228-6464

DCLS Lab ID: 460301

Certificate No.: 10276

Certificate Expiration Date: 03/14/2020

| <b>Method</b>     | <b>Analyte</b> | <b>Method</b>     | <b>Analyte</b> |
|-------------------|----------------|-------------------|----------------|
| EPA 200.7 REV 4.4 | ALUMINUM       | EPA 200.7 REV 4.4 | BARIUM         |
| EPA 200.7 REV 4.4 | CALCIUM        | EPA 200.7 REV 4.4 | CHROMIUM       |



**Accredited Laboratories**  
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|                      |                           |                      |                          |
|----------------------|---------------------------|----------------------|--------------------------|
| EPA 200.7 REV 4.4    | COPPER                    | EPA 200.7 REV 4.4    | IRON                     |
| EPA 200.7 REV 4.4    | MAGNESIUM                 | EPA 200.7 REV 4.4    | MANGANESE                |
| EPA 200.7 REV 4.4    | NICKEL                    | EPA 200.7 REV 4.4    | SILVER                   |
| EPA 200.7 REV 4.4    | SODIUM                    | EPA 200.7 REV 4.4    | ZINC                     |
| EPA 200.9 REV 2.2    | LEAD                      | EPA 300.0 REV 2.1    | CHLORIDE                 |
| EPA 300.0 REV 2.1    | FLUORIDE                  | EPA 300.0 REV 2.1    | SULFATE                  |
| SIMPLATE             | HETEROTROPHIC PLATE COUNT | SM 2320 B-2011       | ALKALINITY AS CaCO3      |
| SM 2510 B-2011       | CONDUCTIVITY              | SM 2540 C-2011       | RESIDUE-FILTERABLE (TDS) |
| SM 9223 COLILERT MPN | ESCHERICHIA COLI          | SM 9223 COLILERT MPN | TOTAL COLIFORMS          |
| SM 9223 COLILERT P/A | ESCHERICHIA COLI          | SM 9223 COLILERT P/A | TOTAL COLIFORMS          |

**Pace Analytical Services, LLC**  
Melville, NY

Phone: (516) 370-6000  
DCLS Lab ID: 460302

Certificate No.: 10505

Certificate Expiration Date: 06/14/2020

| <b>Method</b>     | <b>Analyte</b>                           | <b>Method</b>     | <b>Analyte</b>                                   |
|-------------------|--|-------------------|--|
| EPA 200.7 REV 4.4 | ALUMINUM                                 | EPA 200.7 REV 4.4 | BARIUM   |
| EPA 200.7 REV 4.4 | BERYLLIUM                                | EPA 200.7 REV 4.4 | CADMIUM  |
| EPA 200.7 REV 4.4 | CALCIUM                                  | EPA 200.7 REV 4.4 | CHROMIUM   |
| EPA 200.7 REV 4.4 | COPPER                                   | EPA 200.7 REV 4.4 | IRON   |
| EPA 200.7 REV 4.4 | MAGNESIUM                                | EPA 200.7 REV 4.4 | MANGANESE  |
| EPA 200.7 REV 4.4 | SILVER                                   | EPA 200.7 REV 4.4 | SODIUM   |
| EPA 200.7 REV 4.4 | ZINC                                     | EPA 200.8 REV 5.4 | ALUMINUM   |
| EPA 200.8 REV 5.4 | ANTIMONY                                 | EPA 200.8 REV 5.4 | ARSENIC  |
| EPA 200.8 REV 5.4 | BARIUM                                   | EPA 200.8 REV 5.4 | BERYLLIUM  |
| EPA 200.8 REV 5.4 | CADMIUM                                  | EPA 200.8 REV 5.4 | CHROMIUM   |
| EPA 200.8 REV 5.4 | COPPER                                   | EPA 200.8 REV 5.4 | LEAD   |
| EPA 200.8 REV 5.4 | MANGANESE                                | EPA 200.8 REV 5.4 | MERCURY  |
| EPA 200.8 REV 5.4 | NICKEL                                   | EPA 200.8 REV 5.4 | SELENIUM   |
| EPA 200.8 REV 5.4 | SILVER                                   | EPA 200.8 REV 5.4 | THALLIUM   |
| EPA 200.8 REV 5.4 | ZINC                                     | EPA 245.1 REV 3   | MERCURY  |
| EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)       | EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)      |
| EPA 505 REV 2.1   | ALACHLOR                                 | EPA 505 REV 2.1   | CHLORDANE, TOTAL                                 |
| EPA 505 REV 2.1   | ENDRIN                                   | EPA 505 REV 2.1   | GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE) |
| EPA 505 REV 2.1   | HEPTACHLOR                               | EPA 505 REV 2.1   | HEPTACHLOR EPOXIDE                               |
| EPA 505 REV 2.1   | HEXACHLOROBENZENE                        | EPA 505 REV 2.1   | HEXACHLOROCYCLOPENTADIENE                        |
| EPA 505 REV 2.1   | METHOXYCHLOR                             | EPA 505 REV 2.1   | PCBS, AS AROCLORS                                |
| EPA 505 REV 2.1   | TOXAPHENE (CHLORINATED CAMPHENE)         | EPA 515.3 REV 1   | 2,4-D  |
| EPA 515.3 REV 1   | DALAPON                                  | EPA 515.3 REV 1   | DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)    |
| EPA 515.3 REV 1   | PENTACHLOROPHENOL                        | EPA 515.3 REV 1   | PICLORAM   |
| EPA 515.3 REV 1   | SILVEX (2,4,5-TP)                        | EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                            |
| EPA 524.2 REV 4.1 | 1,1,2-TRICHLOROETHANE                    | EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                             |
| EPA 524.2 REV 4.1 | 1,2,4-TRICHLOROBENZENE                   | EPA 524.2 REV 4.1 | 1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)          |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE) | EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE                              |
| EPA 524.2 REV 4.1 | 1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)  | EPA 524.2 REV 4.1 | BENZENE  |
| EPA 524.2 REV 4.1 | BROMODICHLOROMETHANE                     | EPA 524.2 REV 4.1 | BROMOFORM  |
| EPA 524.2 REV 4.1 | CARBON TETRACHLORIDE                     | EPA 524.2 REV 4.1 | CHLOROBENZENE                                    |
| EPA 524.2 REV 4.1 | CHLORODIBROMOMETHANE                     | EPA 524.2 REV 4.1 | CHLOROFORM                                       |
| EPA 524.2 REV 4.1 | CIS-1,2-DICHLOROETHYLENE                 | EPA 524.2 REV 4.1 | ETHYLBENZENE                                     |
| EPA 524.2 REV 4.1 | METHYLENE CHLORIDE (DICHLOROMETHANE)     | EPA 524.2 REV 4.1 | STYRENE  |

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|                   |   |                   |  |
|-------------------|---|-------------------|--|
| EPA 524.2 REV 4.1 | TETRACHLOROETHENE<br>(PERCHLOROETHENE)                | EPA 524.2 REV 4.1 | TOLUENE  |
| EPA 524.2 REV 4.1 | TOTAL TRIHALOMETHANES (TTHMS)                         | EPA 524.2 REV 4.1 | TRANS-1,2-DICHLOROETHENE   |
| EPA 524.2 REV 4.1 | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)                | EPA 524.2 REV 4.1 | VINYL CHLORIDE (CHLOROETHENE)                                      |
| EPA 524.2 REV 4.1 | XYLENE (TOTAL)  | EPA 524.3 REV 1.0 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)                                 |
| EPA 524.3 REV 1.0 | 1,2-DIBROMOETHANE (EDB, ETHYLENE<br>DIBROMIDE)        | EPA 525.2 REV 2   | ATRAZINE   |
| EPA 525.2 REV 2   | BENZO(A)PYRENE  | EPA 525.2 REV 2   | BIS(2-ETHYLHEXYL) PHTHALATE<br>(DI(2-ETHYLHEXYL)PHTHALATE), (DEHP) |
| EPA 525.2 REV 2   | BIS(2-ETHYLHEXYL)ADIPATE<br>(DI(2-ETHYLHEXYL)ADIPATE) | EPA 525.2 REV 2   | SIMAZINE   |
| EPA 531.1 REV 3.1 | CARBOFURAN (FURADEN)                                  | EPA 531.1 REV 3.1 | OXAMYL   |
| EPA 547           | GLYPHOSATE  | EPA 548.1 REV 1   | ENDOTHALL  |
| EPA 552.2 REV 1   | BROMOACETIC ACID                                      | EPA 552.2 REV 1   | CHLOROACETIC ACID  |
| EPA 552.2 REV 1   | DIBROMOACETIC ACID                                    | EPA 552.2 REV 1   | DICHLOROACETIC ACID  |
| EPA 552.2 REV 1   | HALOACETIC ACIDS - FIVE (HAA5)                        | EPA 552.2 REV 1   | TRICHLOROACETIC ACID (TCAA)  |



**Commonwealth of Virginia**  
 Department of General Services  
 Division of Consolidated Laboratory Services



**Certified Laboratories**  
**Virginia Safe Drinking Water and**  
**Virginia Reciprocal Safe Drinking Water Programs**  
**Effective: 07/09/2019**

|   |   |
|---|---|
| <b>Appomattox River Water Authority</b><br>Petersburg, VA<br>Certificate No.: 10395 | Phone:<br>DCLS Lab ID: 00005<br>Certificate Expiration Date: 06/30/2020 |
|---|---|

| Method               | Analyte          | Method                        | Analyte          |
|----------------------|------------------|-------------------------------|------------------|
| SM 2130 B-2011       | TURBIDITY        | SM 4500-F <sup>-</sup> C-2011 | FLUORIDE         |
| SM 4500-H+ B-2011    | PH               | SM 9223 COLILERT<br>MPN       | ESCHERICHIA COLI |
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A          | TOTAL COLIFORMS  |
| SM 9223 COLISURE®    | ESCHERICHIA COLI | SM 9223 COLISURE®             | TOTAL COLIFORMS  |

|  |  |
|--|--|
| <b>Water Testing Labs of Virginia</b><br>Burke, VA<br>Certificate No.: 10423 | Phone: (703) 250-7711<br>DCLS Lab ID: 00007<br>Certificate Expiration Date: 06/30/2020 |
|--|--|

| Method            | Analyte          | Method            | Analyte         |
|-------------------|------------------|-------------------|-----------------|
| SM 9223 COLISURE® | ESCHERICHIA COLI | SM 9223 COLISURE® | TOTAL COLIFORMS |

|   |   |
|---|---|
| <b>American Water Testing Company</b><br>South Boston, VA<br>Certificate No.: 10463 | Phone:<br>DCLS Lab ID: 00009<br>Certificate Expiration Date: 06/30/2020 |
|---|---|

| Method            | Analyte          | Method            | Analyte         |
|-------------------|------------------|-------------------|-----------------|
| MODIFIED COLITAG® | ESCHERICHIA COLI | MODIFIED COLITAG® | TOTAL COLIFORMS |

|  |  |
|--|--|
| <b>Maryland Spectral Services, Inc.</b><br>Baltimore, MD<br>Certificate No.: 10485 | Phone: (410) 247-7600<br>DCLS Lab ID: 00011<br>Certificate Expiration Date: 06/30/2020 |
|--|--|

| Method            | Analyte                                      | Method            | Analyte  |
|-------------------|--|-------------------|--|
| EPA 200.8 REV 5.4 | ANTIMONY                                     | EPA 200.8 REV 5.4 | ARSENIC  |
| EPA 200.8 REV 5.4 | BARIUM                                       | EPA 200.8 REV 5.4 | BERYLLIUM                                      |
| EPA 200.8 REV 5.4 | CADMIUM                                      | EPA 200.8 REV 5.4 | CHROMIUM                                       |
| EPA 200.8 REV 5.4 | COPPER                                       | EPA 200.8 REV 5.4 | LEAD   |
| EPA 200.8 REV 5.4 | SELENIUM                                     | EPA 200.8 REV 5.4 | THALLIUM                                       |
| EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)           | EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE<br>DIBROMIDE) |
| EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                        | EPA 524.2 REV 4.1 | 1,1,2-TRICHLOROETHANE                          |
| EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                         | EPA 524.2 REV 4.1 | 1,2,4-TRICHLOROETHANE                          |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROETHYLENE<br>(O-DICHLOROETHYLENE) | EPA 524.2 REV 4.1 | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE)    |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE                          | EPA 524.2 REV 4.1 | 1,4-DICHLOROETHYLENE<br>(P-DICHLOROETHYLENE)   |

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Virginia Reciprocal Safe Drinking Water Programs**

**Effective: 07/09/2019**

|                   |                               |                   |   |
|-------------------|-------------------------------|-------------------|---|
| EPA 524.2 REV 4.1 | BENZENE                       | EPA 524.2 REV 4.1 | BROMODICHLOROMETHANE                    |
| EPA 524.2 REV 4.1 | BROMOFORM                     | EPA 524.2 REV 4.1 | CARBON TETRACHLORIDE                    |
| EPA 524.2 REV 4.1 | CHLORO BENZENE                | EPA 524.2 REV 4.1 | CHLORODIBROMOMETHANE                    |
| EPA 524.2 REV 4.1 | CHLOROFORM                    | EPA 524.2 REV 4.1 | CIS-1,2-DICHLOROETHYLENE                |
| EPA 524.2 REV 4.1 | ETHYLBENZENE                  | EPA 524.2 REV 4.1 | METHYLENE CHLORIDE<br>(DICHLOROMETHANE) |
| EPA 524.2 REV 4.1 | STYRENE                       | EPA 524.2 REV 4.1 | TETRACHLOROETHENE<br>(PERCHLOROETHENE)  |
| EPA 524.2 REV 4.1 | TOLUENE                       | EPA 524.2 REV 4.1 | TOTAL TRIHALOMETHANES (TTHMS)           |
| EPA 524.2 REV 4.1 | TRANS-1,2-DICHLOROETHENE      | EPA 524.2 REV 4.1 | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)  |
| EPA 524.2 REV 4.1 | VINYL CHLORIDE (CHLOROETHENE) | EPA 524.2 REV 4.1 | XYLENE (TOTAL)                          |

|                                    |   |
|------------------------------------|---|
| <b>Novachem Laboratories, Inc.</b> | Phone: (513) 523-3605                   |
| Oxford, OH                         | DCLS Lab ID: 00014                      |
| Certificate No.: 10451             | Certificate Expiration Date: 06/30/2020 |

| Method    | Analyte  | Method    | Analyte |
|-----------|----------|-----------|---------|
| EPA 300.1 | BROMATE  | EPA 300.1 | BROMIDE |
| EPA 300.1 | CHLORITE |           |         |

|                          |   |
|--------------------------|---|
| <b>Aqua-Air Lab Inc.</b> | Phone: (434) 295-1716                   |
| Charlottesville, VA      | DCLS Lab ID: 00015                      |
| Certificate No.: 10396   | Certificate Expiration Date: 06/30/2020 |

| Method                     | Analyte          | Method                     | Analyte         |
|----------------------------|------------------|----------------------------|-----------------|
| MODIFIED COLITAG®          | ESCHERICHIA COLI | MODIFIED COLITAG®          | TOTAL COLIFORMS |
| SM 9223 COLILERT-18<br>P/A | ESCHERICHIA COLI | SM 9223 COLILERT-18<br>P/A | TOTAL COLIFORMS |

|                                    |   |
|------------------------------------|---|
| <b>B &amp; B Consultants, Inc.</b> | Phone: (434) 372-3393                   |
| Chase City, VA                     | DCLS Lab ID: 00020                      |
| Certificate No.: 10464             | Certificate Expiration Date: 06/30/2020 |

| Method            | Analyte          | Method            | Analyte         |
|-------------------|------------------|-------------------|-----------------|
| SM 9223 COLISURE® | ESCHERICHIA COLI | SM 9223 COLISURE® | TOTAL COLIFORMS |

|                                     |   |
|-------------------------------------|---|
| <b>Aerobiology Laboratory Assoc</b> | Phone: (877) 648-9150                   |
| Dulles, VA                          | DCLS Lab ID: 00023                      |
| Certificate No.: 10273              | Certificate Expiration Date: 06/30/2020 |

| Method            | Analyte          | Method            | Analyte         |
|-------------------|------------------|-------------------|-----------------|
| SM 9223 COLISURE® | ESCHERICHIA COLI | SM 9223 COLISURE® | TOTAL COLIFORMS |

|                                  |   |
|----------------------------------|---|
| <b>Big Stone Gap Water Plant</b> | Phone: (276) 524-1053                   |
| Big Stone Gap, VA                | DCLS Lab ID: 00025                      |
| Certificate No.: 10465           | Certificate Expiration Date: 06/30/2020 |

| Method | Analyte | Method | Analyte |
|--------|---------|--------|---------|
|--------|---------|--------|---------|

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SM 9223 COLILERT P/A      ESCHERICHIA COLI

SM 9223 COLILERT P/A      TOTAL COLIFORMS

|  |  |
|--|--|
| <b>Water Tech Labs Inc.</b><br>Granite Falls, NC<br>Certificate No.: 10455 | Phone: (828) 396-4444<br>DCLS Lab ID: 00027<br>Certificate Expiration Date: 06/30/2020 |
|--|--|

| Method                                      | Analyte                   | Method                                      | Analyte          |
|---|---------------------------|---|------------------|
| SIMPLATE                                    | HETEROTROPHIC PLATE COUNT | SM 4500-NO <sub>2</sub> <sup>-</sup> B-2011 | NITRITE AS N     |
| SM 4500-NO <sub>3</sub> <sup>-</sup> E-2011 | NITRATE AS N              | SM 9223 COLILERT                            | ESCHERICHIA COLI |
|   |                           | MPN   |                  |
| SM 9223 COLISURE®                           | ESCHERICHIA COLI          | SM 9223 COLISURE®                           | TOTAL COLIFORMS  |

|  |  |
|--|--|
| <b>NRV Regional Water Authority</b><br>Radford, VA<br>Certificate No.: 10434 | Phone: (540) 639-2575<br>DCLS Lab ID: 00035<br>Certificate Expiration Date: 06/30/2020 |
|--|--|

| Method               | Analyte          | Method               | Analyte         |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

|   |  |
|---|--|
| <b>Bristol Virginia Utilities Authority</b><br>Abingdon, VA<br>Certificate No.: 10401 | Phone: (276) 628-7598<br>DCLS Lab ID: 00040<br>Certificate Expiration Date: 06/30/2020 |
|---|--|

| Method            | Analyte                   | Method            | Analyte          |
|-------------------|---------------------------|-------------------|------------------|
| SIMPLATE          | HETEROTROPHIC PLATE COUNT | SM 9223 COLISURE® | ESCHERICHIA COLI |
| SM 9223 COLISURE® | TOTAL COLIFORMS           |                   |                  |

|   |  |
|---|--|
| <b>Biotech Laboratory</b><br>Chesterfield, VA<br>Certificate No.: 10466 | Phone: (804) 520-4807<br>DCLS Lab ID: 00041<br>Certificate Expiration Date: 06/30/2020 |
|---|--|

| Method               | Analyte          | Method               | Analyte         |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

|  |  |
|--|--|
| <b>Southwest Soils and Water Testing</b><br>Hillsville, VA<br>Certificate No.: 10418 | Phone: (276) 733-5682<br>DCLS Lab ID: 00043<br>Certificate Expiration Date: 06/30/2020 |
|--|--|

| Method               | Analyte          | Method               | Analyte         |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

|   |  |
|---|--|
| <b>Otter River Filter Plant</b><br>Evington, VA<br>Certificate No.: 10467 | Phone: (434) 821-8611<br>DCLS Lab ID: 00051<br>Certificate Expiration Date: 06/30/2020 |
|---|--|

| Method | Analyte | Method | Analyte |
|--------|---------|--------|---------|
|--------|---------|--------|---------|

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SM 9223 COLILERT P/A

ESCHERICHIA COLI

SM 9223 COLILERT P/A

TOTAL COLIFORMS

|  |   |
|--|---|
| <b>City of Chesapeake Public Utilities</b> | Phone: (757) 382-3557                   |
| Chesapeake, VA                             | DCLS Lab ID: 00055                      |
| Certificate No.: 10419                     | Certificate Expiration Date: 06/30/2020 |

| Method                        | Analyte                       | Method                | Analyte                        |
|-------------------------------|-------------------------------|-----------------------|--------------------------------|
| EPA 200.7 REV 4.4             | COPPER                        | EPA 300.0 REV 2.1     | CHLORIDE                       |
| EPA 300.0 REV 2.1             | FLUORIDE                      | EPA 300.0 REV 2.1     | SULFATE                        |
| EPA 524.2 REV 4.1             | BROMODICHLOROMETHANE          | EPA 524.2 REV 4.1     | BROMOFORM                      |
| EPA 524.2 REV 4.1             | CHLORODIBROMOMETHANE          | EPA 524.2 REV 4.1     | CHLOROFORM                     |
| EPA 524.2 REV 4.1             | TOTAL TRIHALOMETHANES (TTHMS) | EPA 552.2 REV 1       | BROMOACETIC ACID               |
| EPA 552.2 REV 1               | CHLOROACETIC ACID             | EPA 552.2 REV 1       | DIBROMOACETIC ACID             |
| EPA 552.2 REV 1               | DICHLOROACETIC ACID           | EPA 552.2 REV 1       | HALOACETIC ACIDS - FIVE (HAA5) |
| EPA 552.2 REV 1               | TRICHLOROACETIC ACID (TCAA)   | SM 2130 B-2011        | TURBIDITY                      |
| SM 4500-F <sup>-</sup> C-2011 | FLUORIDE                      | SM 4500-H+ B-2011     | PH                             |
| SM 5310 C-2011                | TOTAL ORGANIC CARBON (TOC)    | SM 9215 B-2004        | HETEROTROPHIC PLATE COUNT      |
| SM 9222 B-1997                | TOTAL COLIFORMS               | SM 9222 G (P/A) -1997 | ESCHERICHIA COLI               |

|   |   |
|---|---|
| <b>Addison-Evans Water Production &amp; Laboratory Facility</b> | Phone: (804) 318-8125                   |
| Midlothian, VA  | DCLS Lab ID: 00060                      |
| Certificate No.: 10394  | Certificate Expiration Date: 06/30/2020 |

| Method                         | Analyte                         | Method                        | Analyte                    |
|--------------------------------|---------------------------------|-------------------------------|----------------------------|
| EPA 300.0 REV 2.1              | CHLORIDE                        | EPA 300.0 REV 2.1             | FLUORIDE                   |
| EPA 300.0 REV 2.1              | NITRATE AS N                    | EPA 300.0 REV 2.1             | NITRITE AS N               |
| EPA 365.1 REV 2 (AS HACH 8048) | ORTHOPHOSPHATE AS P             | SM 2130 B-2011                | TURBIDITY                  |
| SM 2320 B-2011                 | ALKALINITY AS CaCO <sub>3</sub> | SM 2510 B-2011                | CONDUCTIVITY               |
| SM 3111 B-2011                 | ZINC                            | SM 3113 B-2010                | COPPER                     |
| SM 3113 B-2010                 | LEAD                            | SM 4500-F <sup>-</sup> C-2011 | FLUORIDE                   |
| SM 4500-H+ B-2011              | PH                              | SM 5310 C-2011                | TOTAL ORGANIC CARBON (TOC) |
| SM 9215 B-2004                 | HETEROTROPHIC PLATE COUNT       | SM 9223 COLILERT MPN          | ESCHERICHIA COLI           |
| SM 9223 COLILERT P/A           | ESCHERICHIA COLI                | SM 9223 COLILERT P/A          | TOTAL COLIFORMS            |
| SM 9223 COLISURE®              | ESCHERICHIA COLI                | SM 9223 COLISURE®             | TOTAL COLIFORMS            |

|                                      |   |
|--------------------------------------|---|
| <b>Cisco Labs of Martinsville Va</b> | Phone: (276) 638-2472                   |
| Martinsville, VA                     | DCLS Lab ID: 00063                      |
| Certificate No.: 10398               | Certificate Expiration Date: 06/30/2020 |

| Method               | Analyte          | Method               | Analyte         |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

|   |   |
|---|---|
| <b>Town of Culpeper Water Treatment Plant</b> | Phone: (540) 825-8671                   |
| Culpeper, VA                                  | DCLS Lab ID: 00074                      |
| Certificate No.: 10468                        | Certificate Expiration Date: 06/30/2020 |

| Method | Analyte | Method | Analyte |
|--------|---------|--------|---------|
|--------|---------|--------|---------|

**Certified Laboratories  
Virginia Safe Drinking Water and  
Virginia Reciprocal Safe Drinking Water Programs**

**Effective: 07/09/2019**

|                     |                  |                     |                 |
|---------------------|------------------|---------------------|-----------------|
| SM 9223 COLILERT-18 | ESCHERICHIA COLI | SM 9223 COLILERT-18 | TOTAL COLIFORMS |
| P/A                 |                  | P/A                 |                 |
| SM 9223 COLISURE®   | ESCHERICHIA COLI | SM 9223 COLISURE®   | TOTAL COLIFORMS |

**City of Danville Division of Water and Wastewater Treatment**  
Danville, VA

Phone: (434) 799-6473  
DCLS Lab ID: 00075

Certificate No.: 10402      Certificate Expiration Date: 06/30/2020

| Method            | Analyte                   | Method            | Analyte         |
|-------------------|---------------------------|-------------------|-----------------|
| MODIFIED COLITAG® | ESCHERICHIA COLI          | MODIFIED COLITAG® | TOTAL COLIFORMS |
| SM 9215 B-2004    | HETEROTROPHIC PLATE COUNT |                   |                 |

**Loudoun Water Laboratory**  
Ashburn, VA

Phone: (571) 291-7844  
DCLS Lab ID: 00077

Certificate No.: 10244      Certificate Expiration Date: 06/30/2020

| Method                                    | Analyte         | Method               | Analyte          |
|---|-----------------|----------------------|------------------|
| EPA 353.2 REV 2 (AS LACHAT 10-107-04-1-A) | NITRATE/NITRITE | SM 9223 COLILERT     | ESCHERICHIA COLI |
| SM 9223 COLILERT                          | TOTAL COLIFORMS | MPN                  |                  |
| MPN                                       |                 | SM 9223 COLILERT P/A | ESCHERICHIA COLI |
| SM 9223 COLILERT P/A                      | TOTAL COLIFORMS |                      |                  |

**Clear Water Testing**  
Christiansburg, VA

Phone: (540) 381-0768  
DCLS Lab ID: 00085

Certificate No.: 10427      Certificate Expiration Date: 06/30/2020

| Method              | Analyte          | Method              | Analyte         |
|---------------------|------------------|---------------------|-----------------|
| SM 9223 COLILERT-18 | ESCHERICHIA COLI | SM 9223 COLILERT-18 | TOTAL COLIFORMS |
| MPN                 |                  | MPN                 |                 |
| SM 9223 COLILERT-18 | ESCHERICHIA COLI | SM 9223 COLILERT-18 | TOTAL COLIFORMS |
| P/A                 |                  | P/A                 |                 |

**Water Testing Labs of Maryland, Inc. / Chesapeake Labs, Inc. - Stevensville**  
Stevensville, MD

Phone: (410) 643-7711  
DCLS Lab ID: 00107

Certificate No.: 10457      Certificate Expiration Date: 06/30/2020

| Method               | Analyte          | Method                | Analyte                   |
|----------------------|------------------|-----------------------|---------------------------|
| EPA 200.9 REV 2.2    | ANTIMONY         | EPA 200.9 REV 2.2     | ARSENIC                   |
| EPA 200.9 REV 2.2    | BERYLLIUM        | EPA 200.9 REV 2.2     | CADMIUM                   |
| EPA 200.9 REV 2.2    | CHROMIUM         | EPA 200.9 REV 2.2     | LEAD                      |
| EPA 200.9 REV 2.2    | SELENIUM         | EPA 200.9 REV 2.2     | THALLIUM                  |
| SM 3111 B-2011       | COPPER           | SM 3111 D-2011        | BARIUM                    |
| SM 3112 B-2011       | MERCURY          | SM 9215 B-2004        | HETEROTROPHIC PLATE COUNT |
| SM 9221 D-1999       | TOTAL COLIFORMS  | SM 9221 F (P/A) -2006 | ESCHERICHIA COLI          |
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A  | TOTAL COLIFORMS           |

**Certified Laboratories**  
**Virginia Safe Drinking Water and**  
**Virginia Reciprocal Safe Drinking Water Programs**  
**Effective: 07/09/2019**

**Environmental Systems Service, LTD.- Culpeper**  
 Culpeper, VA

Phone: (540) 825-6660  
 DCLS Lab ID: 00115

Certificate No.: 10444

Certificate Expiration Date: 06/30/2020

| Method                              | Analyte             | Method                              | Analyte                         |
|-------------------------------------|---------------------|-------------------------------------|---------------------------------|
| EPA 353.2 REV 2 (AS SEAL EPA-126-D) | NITRATE/NITRITE     | EPA 353.2 REV 2 (AS SEAL EPA-137-A) | NITRITE AS N                    |
| EPA 365.1 REV 2 (AS SEAL EPA-118-D) | ORTHOPHOSPHATE AS P | SM 2120 B-2011                      | COLOR                           |
| SM 2130 B-2011                      | TURBIDITY           | SM 2320 B-2011                      | ALKALINITY AS CaCO <sub>3</sub> |
| SM 2510 B-2011                      | CONDUCTIVITY        | SM 2540 C-2011                      | RESIDUE-FILTERABLE (TDS)        |
| SM 4500-F <sup>-</sup> C-2011       | FLUORIDE            | SM 9215 B-2004                      | HETEROTROPHIC PLATE COUNT       |
| SM 9223 COLILERT MPN                | ESCHERICHIA COLI    | SM 9223 COLILERT P/A                | ESCHERICHIA COLI                |
| SM 9223 COLILERT P/A                | TOTAL COLIFORMS     | SM 9223 COLILERT-18 P/A             | ESCHERICHIA COLI                |
| SM 9223 COLILERT-18 P/A             | TOTAL COLIFORMS     |                                     |                                 |

**Cornwell Engineering Group Laboratory**  
 Newport News, VA

Phone: (757) 873-1216  
 DCLS Lab ID: 00116

Certificate No.: 10408

Certificate Expiration Date: 06/30/2020

| Method          | Analyte                         | Method          | Analyte                        |
|-----------------|---------------------------------|-----------------|--------------------------------|
| EPA 551.1 REV 1 | BROMODICHLOROMETHANE            | EPA 551.1 REV 1 | BROMOFORM                      |
| EPA 551.1 REV 1 | CHLORODIBROMOMETHANE            | EPA 551.1 REV 1 | CHLOROFORM                     |
| EPA 551.1 REV 1 | TOTAL TRIHALOMETHANES (TTHMS)   | EPA 552.2 REV 1 | BROMOACETIC ACID               |
| EPA 552.2 REV 1 | CHLOROACETIC ACID               | EPA 552.2 REV 1 | DIBROMOACETIC ACID             |
| EPA 552.2 REV 1 | DICHLOROACETIC ACID             | EPA 552.2 REV 1 | HALOACETIC ACIDS - FIVE (HAA5) |
| EPA 552.2 REV 1 | TRICHLOROACETIC ACID (TCAA)     | SM 2130 B-2011  | TURBIDITY                      |
| SM 2320 B-2011  | ALKALINITY AS CaCO <sub>3</sub> | SM 5310 C-2011  | TOTAL ORGANIC CARBON (TOC)     |
| SM 5910 B-2011  | UV 254                          |                 |                                |

**Environmental Systems Service, LTD - Bedford**  
 Bedford, VA

Phone: (540) 586-5413  
 DCLS Lab ID: 00119

Certificate No.: 10469

Certificate Expiration Date: 06/30/2020

| Method               | Analyte          | Method               | Analyte         |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**Fairfax County Health Department Joanne Jorgenson Laboratory**  
 Fairfax, VA

Phone:  
 DCLS Lab ID: 00120

Certificate No.: 10308

Certificate Expiration Date: 06/30/2020

| Method                                      | Analyte                         | Method                                      | Analyte                  |
|---|---------------------------------|---|--------------------------|
| SM 2320 B-2011                              | ALKALINITY AS CaCO <sub>3</sub> | SM 2540 C-2011                              | RESIDUE-FILTERABLE (TDS) |
| SM 3111 B-2011                              | COPPER                          | SM 3111 B-2011                              | IRON                     |
| SM 3113 B-2010                              | ARSENIC                         | SM 3113 B-2010                              | LEAD                     |
| SM 3500-CA B-2011                           | CALCIUM                         | SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011 | NITRATE AS N             |
| SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011 | NITRITE AS N                    | SM 9223 COLISURE®                           | ESCHERICHIA COLI         |
| SM 9223 COLISURE®                           | TOTAL COLIFORMS                 |   |                          |



**Certified Laboratories**  
**Virginia Safe Drinking Water and**  
**Virginia Reciprocal Safe Drinking Water Programs**  
**Effective: 07/09/2019**

**Environmental Options, Inc**  
 Rocky Mount, VA

Certificate No.: 10428

Phone: (540) 483-3920

DCLS Lab ID: 00122

Certificate Expiration Date: 06/30/2020

| Method               | Analyte          | Method               | Analyte         |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**Fairfax Water**  
 Herndon, VA

Certificate No.: 10411

Phone: (703) 289-6566

DCLS Lab ID: 00125

Certificate Expiration Date: 06/30/2020

| Method               | Analyte                                  | Method            | Analyte                                 |
|----------------------|--|-------------------|---|
| 40 CFR 141.131(D)(4) | SPECIFIC ULTRAVIOLET ABSORBANCE (SUVA)   | EPA 180.1 REV 2   | TURBIDITY                               |
| EPA 200.7 REV 4.4    | CALCIUM                                  | EPA 200.7 REV 4.4 | COPPER                                  |
| EPA 200.7 REV 4.4    | IRON                                     | EPA 200.7 REV 4.4 | MAGNESIUM                               |
| EPA 200.7 REV 4.4    | MANGANESE                                | EPA 200.7 REV 4.4 | SODIUM                                  |
| EPA 200.7 REV 4.4    | ZINC                                     | EPA 200.8 REV 5.4 | ALUMINUM                                |
| EPA 200.8 REV 5.4    | ANTIMONY                                 | EPA 200.8 REV 5.4 | ARSENIC                                 |
| EPA 200.8 REV 5.4    | BARIUM                                   | EPA 200.8 REV 5.4 | BERYLLIUM                               |
| EPA 200.8 REV 5.4    | CADMIUM                                  | EPA 200.8 REV 5.4 | CHROMIUM                                |
| EPA 200.8 REV 5.4    | COPPER                                   | EPA 200.8 REV 5.4 | LEAD                                    |
| EPA 200.8 REV 5.4    | MANGANESE                                | EPA 200.8 REV 5.4 | MERCURY                                 |
| EPA 200.8 REV 5.4    | NICKEL                                   | EPA 200.8 REV 5.4 | SELENIUM                                |
| EPA 200.8 REV 5.4    | SILVER                                   | EPA 200.8 REV 5.4 | THALLIUM                                |
| EPA 200.8 REV 5.4    | ZINC                                     | EPA 300.0 REV 2.1 | BROMIDE                                 |
| EPA 300.0 REV 2.1    | CHLORIDE                                 | EPA 300.0 REV 2.1 | FLUORIDE                                |
| EPA 300.0 REV 2.1    | NITRATE AS N                             | EPA 300.0 REV 2.1 | NITRITE AS N                            |
| EPA 300.0 REV 2.1    | ORTHOPHOSPHATE AS P                      | EPA 300.0 REV 2.1 | SULFATE                                 |
| EPA 300.1            | BROMATE                                  | EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                   |
| EPA 524.2 REV 4.1    | 1,1,2-TRICHLOROETHANE                    | EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                    |
| EPA 524.2 REV 4.1    | 1,2,4-TRICHLOROBENZENE                   | EPA 524.2 REV 4.1 | 1,2-DICHLOROBENZENE (O-DICHLOROBENZENE) |
| EPA 524.2 REV 4.1    | 1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE) | EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE                     |
| EPA 524.2 REV 4.1    | 1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)  | EPA 524.2 REV 4.1 | BENZENE                                 |
| EPA 524.2 REV 4.1    | BROMODICHLOROMETHANE                     | EPA 524.2 REV 4.1 | BROMOFORM                               |
| EPA 524.2 REV 4.1    | CARBON TETRACHLORIDE                     | EPA 524.2 REV 4.1 | CHLOROBENZENE                           |
| EPA 524.2 REV 4.1    | CHLORODIBROMOMETHANE                     | EPA 524.2 REV 4.1 | CHLOROFORM                              |
| EPA 524.2 REV 4.1    | CIS-1,2-DICHLOROETHYLENE                 | EPA 524.2 REV 4.1 | ETHYLBENZENE                            |
| EPA 524.2 REV 4.1    | METHYLENE CHLORIDE (DICHLOROMETHANE)     | EPA 524.2 REV 4.1 | STYRENE                                 |
| EPA 524.2 REV 4.1    | TETRACHLOROETHENE (PERCHLOROETHENE)      | EPA 524.2 REV 4.1 | TOLUENE                                 |
| EPA 524.2 REV 4.1    | TOTAL TRIHALOMETHANES (TTHMS)            | EPA 524.2 REV 4.1 | TRANS-1,2-DICHLOROETHENE                |
| EPA 524.2 REV 4.1    | TRICHLOROETHENE (TRICHLOROETHYLENE)      | EPA 524.2 REV 4.1 | VINYL CHLORIDE (CHLOROETHENE)           |
| EPA 524.2 REV 4.1    | XYLENE (TOTAL)                           | EPA 552.2 REV 1   | BROMOACETIC ACID                        |
| EPA 552.2 REV 1      | CHLOROACETIC ACID                        | EPA 552.2 REV 1   | DIBROMOACETIC ACID                      |
| EPA 552.2 REV 1      | DICHLOROACETIC ACID                      | EPA 552.2 REV 1   | HALOACETIC ACIDS - FIVE (HAA5)          |
| EPA 552.2 REV 1      | TRICHLOROACETIC ACID (TCAA)              | SIMPLATE          | HETEROTROPHIC PLATE COUNT               |
| SM 2120 B-2011       | COLOR                                    | SM 2320 B-2011    | ALKALINITY AS CaCO3                     |
| SM 2510 B-2011       | CONDUCTIVITY                             | SM 2540 C-2011    | RESIDUE-FILTERABLE (TDS)                |

**Certified Laboratories  
Virginia Safe Drinking Water and  
Virginia Reciprocal Safe Drinking Water Programs**

**Effective: 07/09/2019**

|                               |                                |                      |                            |
|-------------------------------|--------------------------------|----------------------|----------------------------|
| SM 4500-CL G-2011             | RESIDUAL FREE CHLORINE         | SM 4500-CL G-2011    | TOTAL RESIDUAL CHLORINE    |
| SM 4500-F <sup>-</sup> C-2011 | FLUORIDE                       | SM 4500-H+ B-2011    | PH                         |
| SM 5310 C-2011                | DISSOLVED ORGANIC CARBON (DOC) | SM 5310 C-2011       | TOTAL ORGANIC CARBON (TOC) |
| SM 5910 B-2011                | UV 254                         | SM 9223 COLILERT     | ESCHERICHIA COLI           |
|                               |                                | MPN                  |                            |
| SM 9223 COLILERT P/A          | ESCHERICHIA COLI               | SM 9223 COLILERT P/A | TOTAL COLIFORMS            |

**Farmville Water Plant**

Farmville, VA

Certificate No.: 10429

Certificate Expiration Date: 06/30/2020

Phone: (434) 392-8774

DCLS Lab ID: 00135

| <b>Method</b>        | <b>Analyte</b>   | <b>Method</b>        | <b>Analyte</b>  |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**Greenway Engineering Environmental Laboratory**

Winchester, VA

Certificate No.: 10412

Certificate Expiration Date: 06/30/2020

Phone: (540) 662-4185

DCLS Lab ID: 00155

| <b>Method</b>        | <b>Analyte</b>   | <b>Method</b>        | <b>Analyte</b>  |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**HP Environmental, Inc.**

Herndon, VA

Certificate No.: 10470

Certificate Expiration Date: 06/30/2020

Phone: (703) 471-4200

DCLS Lab ID: 00156

| <b>Method</b>        | <b>Analyte</b>   | <b>Method</b>        | <b>Analyte</b>  |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**Pole Green Drinking Water Laboratory**

Mechanicsville, VA

Certificate No.: 10243

Certificate Expiration Date: 06/30/2020

Phone: (804) 365-6720

DCLS Lab ID: 00160

| <b>Method</b>        | <b>Analyte</b>   | <b>Method</b>        | <b>Analyte</b>  |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**Jennings-Thompson Laboratories, Inc.**

Virginia Beach, VA

Certificate No.: 10431

Certificate Expiration Date: 06/30/2020

Phone: (757) 425-1498

DCLS Lab ID: 00180

| <b>Method</b>                  | <b>Analyte</b>           | <b>Method</b>                               | <b>Analyte</b>                  |
|--------------------------------|--------------------------|---|---------------------------------|
| SM 2130 B-2011                 | TURBIDITY                | SM 2320 B-2011                              | ALKALINITY AS CaCO <sub>3</sub> |
| SM 2540 C-2011                 | RESIDUE-FILTERABLE (TDS) | SM 3111 B-2011                              | CALCIUM                         |
| SM 3111 B-2011                 | COPPER                   | SM 3111 B-2011                              | IRON                            |
| SM 3111 B-2011                 | SODIUM                   | SM 3111 B-2011                              | ZINC                            |
| SM 3113 B-2010                 | CADMIUM                  | SM 3113 B-2010                              | LEAD                            |
| SM 4500-CL <sup>-</sup> B-2011 | CHLORIDE                 | SM 4500-F <sup>-</sup> C-2011               | FLUORIDE                        |
| SM 4500-H+ B-2011              | PH                       | SM 4500-NO <sub>2</sub> <sup>-</sup> B-2011 | NITRITE AS N                    |

**Certified Laboratories  
Virginia Safe Drinking Water and  
Virginia Reciprocal Safe Drinking Water Programs**

**Effective: 07/09/2019**

SM 4500-NO<sub>3</sub><sup>-</sup> D-2011  
SM 9222 B-1997

NITRATE AS N  
TOTAL COLIFORMS

SM 9215 B-2004  
SM 9222 G (P/A) -1997

HETEROTROPHIC PLATE COUNT  
ESCHERICHIA COLI

**John Flannagan Water Authority Lab**  
Haysi, VA

Phone: (276) 835-8629  
DCLS Lab ID: 00182

Certificate No.: 10477

Certificate Expiration Date: 06/30/2020

| Method                | Analyte                   | Method         | Analyte         |
|-----------------------|---------------------------|----------------|-----------------|
| SM 9215 B-2004        | HETEROTROPHIC PLATE COUNT | SM 9222 B-1997 | TOTAL COLIFORMS |
| SM 9222 G (P/A) -1997 | ESCHERICHIA COLI          |                |                 |

**City of Lynchburg Department of Water Resources**  
Lynchburg, VA

Phone: (434) 455-4263  
DCLS Lab ID: 00190

Certificate No.: 10478

Certificate Expiration Date: 06/30/2020

| Method               | Analyte                   | Method               | Analyte          |
|----------------------|---------------------------|----------------------|------------------|
| SM 9215 B-2004       | HETEROTROPHIC PLATE COUNT | SM 9223 COLILERT P/A | ESCHERICHIA COLI |
| SM 9223 COLILERT P/A | TOTAL COLIFORMS           |                      |                  |

**City of Manassas Water Treatment Plant**  
Nokesville, VA

Phone:  
DCLS Lab ID: 00195

Certificate No.: 10399

Certificate Expiration Date: 06/30/2020

| Method               | Analyte                   | Method                        | Analyte                         |
|----------------------|---------------------------|-------------------------------|---------------------------------|
| SIMPLATE             | HETEROTROPHIC PLATE COUNT | SM 2320 B-2011                | ALKALINITY AS CaCO <sub>3</sub> |
| SM 2510 B-2011       | CONDUCTIVITY              | SM 4500-F <sup>-</sup> C-2011 | FLUORIDE                        |
| SM 9223 COLILERT P/A | ESCHERICHIA COLI          | SM 9223 COLILERT P/A          | TOTAL COLIFORMS                 |

**Marion Water Plant**  
Marion, VA

Phone: (276) 783-5950  
DCLS Lab ID: 00200

Certificate No.: 10479

Certificate Expiration Date: 06/30/2020

| Method               | Analyte                   | Method               | Analyte          |
|----------------------|---------------------------|----------------------|------------------|
| SIMPLATE             | HETEROTROPHIC PLATE COUNT | SM 9223 COLILERT P/A | ESCHERICHIA COLI |
| SM 9223 COLILERT P/A | TOTAL COLIFORMS           |                      |                  |

**City of Martinsville Water Treatment Plant**  
Martinsville, VA

Phone:  
DCLS Lab ID: 00205

Certificate No.: 10403

Certificate Expiration Date: 06/30/2020

| Method               | Analyte          | Method               | Analyte         |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**Certified Laboratories**  
**Virginia Safe Drinking Water and**  
**Virginia Reciprocal Safe Drinking Water Programs**  
**Effective: 07/09/2019**

|   |   |
|---|---|
| <b>May Supply Company</b><br>Harrisonburg, VA | Phone:<br>DCLS Lab ID: 00206            |
| Certificate No.: 10432                        | Certificate Expiration Date: 06/30/2020 |

| Method            | Analyte          | Method            | Analyte         |
|-------------------|------------------|-------------------|-----------------|
| SM 9223 COLISURE® | ESCHERICHIA COLI | SM 9223 COLISURE® | TOTAL COLIFORMS |

|  |   |
|--|---|
| <b>Mid-Atlantic Laboratories, Inc.</b><br>Port Royal, VA | Phone: (540) 775-7775<br>DCLS Lab ID: 00215 |
| Certificate No.: 10415                                   | Certificate Expiration Date: 06/30/2020     |

| Method                                      | Analyte                  | Method               | Analyte                   |
|---|--------------------------|----------------------|---------------------------|
| EPA 200.9 REV 2.2                           | LEAD                     | HACH 10206           | NITRATE AS N              |
| HACH 10225                                  | FLUORIDE                 | SIMPLATE             | HETEROTROPHIC PLATE COUNT |
| SM 2130 B-2011                              | TURBIDITY                | SM 2510 B-2011       | CONDUCTIVITY              |
| SM 2540 C-2011                              | RESIDUE-FILTERABLE (TDS) | SM 3111 B-2011       | COPPER                    |
| SM 3111 B-2011                              | SODIUM                   | SM 3111 B-2011       | ZINC                      |
| SM 4500-NO <sub>2</sub> <sup>-</sup> B-2011 | NITRITE AS N             | SM 9223 COLILERT P/A | ESCHERICHIA COLI          |
| SM 9223 COLILERT P/A                        | TOTAL COLIFORMS          |                      |                           |

|   |   |
|---|---|
| <b>Newport News Waterworks Water Quality Laboratory</b><br>Yorktown, VA | Phone: (757) 234-6723<br>DCLS Lab ID: 00220 |
| Certificate No.: 10433  | Certificate Expiration Date: 06/30/2020     |

| Method                     | Analyte                       | Method                        | Analyte                         |
|----------------------------|-------------------------------|-------------------------------|---------------------------------|
| EPA 200.7 REV 4.4          | ALUMINUM                      | EPA 200.7 REV 4.4             | BARIUM                          |
| EPA 200.7 REV 4.4          | CADMIUM                       | EPA 200.7 REV 4.4             | CALCIUM                         |
| EPA 200.7 REV 4.4          | CHROMIUM                      | EPA 200.7 REV 4.4             | COPPER                          |
| EPA 200.7 REV 4.4          | IRON                          | EPA 200.7 REV 4.4             | MAGNESIUM                       |
| EPA 200.7 REV 4.4          | MANGANESE                     | EPA 200.7 REV 4.4             | NICKEL                          |
| EPA 200.7 REV 4.4          | SILVER                        | EPA 200.7 REV 4.4             | SODIUM                          |
| EPA 200.7 REV 4.4          | ZINC                          | EPA 200.8 REV 5.4             | ALUMINUM                        |
| EPA 200.8 REV 5.4          | ANTIMONY                      | EPA 200.8 REV 5.4             | ARSENIC                         |
| EPA 200.8 REV 5.4          | BARIUM                        | EPA 200.8 REV 5.4             | BERYLLIUM                       |
| EPA 200.8 REV 5.4          | CADMIUM                       | EPA 200.8 REV 5.4             | CHROMIUM                        |
| EPA 200.8 REV 5.4          | COPPER                        | EPA 200.8 REV 5.4             | LEAD                            |
| EPA 200.8 REV 5.4          | MANGANESE                     | EPA 200.8 REV 5.4             | NICKEL                          |
| EPA 200.8 REV 5.4          | SELENIUM                      | EPA 200.8 REV 5.4             | SILVER                          |
| EPA 200.8 REV 5.4          | THALLIUM                      | EPA 200.8 REV 5.4             | ZINC                            |
| EPA 300.1                  | BROMATE                       | EPA 300.1                     | BROMIDE                         |
| EPA 300.1                  | CHLORIDE                      | EPA 300.1                     | FLUORIDE                        |
| EPA 300.1                  | SULFATE                       | EPA 353.2 REV 2               | NITRATE AS N                    |
| EPA 353.2 REV 2            | NITRITE AS N                  | EPA 365.1 REV 2               | ORTHOPHOSPHATE AS P             |
| EPA 524.3 REV 1.0          | BROMODICHLOROMETHANE          | EPA 524.3 REV 1.0             | BROMOFORM                       |
| EPA 524.3 REV 1.0          | CHLORODIBROMOMETHANE          | EPA 524.3 REV 1.0             | CHLOROFORM                      |
| EPA 524.3 REV 1.0          | TOTAL TRIHALOMETHANES (TTHMS) | SM 2320 B-2011                | ALKALINITY AS CaCO <sub>3</sub> |
| SM 2540 C-2011             | RESIDUE-FILTERABLE (TDS)      | SM 4500-F <sup>-</sup> C-2011 | FLUORIDE                        |
| SM 5310 B-2011             | TOTAL ORGANIC CARBON (TOC)    | SM 9223 COLILERT-18<br>MPN    | ESCHERICHIA COLI                |
| SM 9223 COLILERT-18<br>P/A | ESCHERICHIA COLI              | SM 9223 COLILERT-18<br>P/A    | TOTAL COLIFORMS                 |

**Certified Laboratories**  
**Virginia Safe Drinking Water and**  
**Virginia Reciprocal Safe Drinking Water Programs**  
**Effective: 07/09/2019**

SM 9223 COLISURE®

ESCHERICHIA COLI

SM 9223 COLISURE®

TOTAL COLIFORMS

**City of Norfolk Department of Utilities Water Quality Laboratory**  
 Norfolk, VA

Phone: (757) 441-5774  
 DCLS Lab ID: 00225

Certificate No.: 10404

Certificate Expiration Date: 06/30/2020

| Method                                      | Analyte                   | Method                                      | Analyte                         |
|---|---------------------------|---|---------------------------------|
| EPA 200.8 REV 5.4                           | ALUMINUM                  | EPA 200.8 REV 5.4                           | ANTIMONY                        |
| EPA 200.8 REV 5.4                           | ARSENIC                   | EPA 200.8 REV 5.4                           | BARIUM                          |
| EPA 200.8 REV 5.4                           | BERYLLIUM                 | EPA 200.8 REV 5.4                           | CADMIUM                         |
| EPA 200.8 REV 5.4                           | CHROMIUM                  | EPA 200.8 REV 5.4                           | COPPER                          |
| EPA 200.8 REV 5.4                           | IRON                      | EPA 200.8 REV 5.4                           | LEAD                            |
| EPA 200.8 REV 5.4                           | MANGANESE                 | EPA 200.8 REV 5.4                           | NICKEL                          |
| EPA 200.8 REV 5.4                           | SELENIUM                  | EPA 200.8 REV 5.4                           | SILVER                          |
| EPA 200.8 REV 5.4                           | SODIUM                    | EPA 200.8 REV 5.4                           | THALLIUM                        |
| EPA 200.8 REV 5.4                           | ZINC                      | EPA 300.0 REV 2.1                           | SULFATE                         |
| EPA 365.1 REV 2 (AS LACHAT 10-115-01-1-A)   | ORTHOPHOSPHATE AS P       | EPA 524.2 REV 4.1                           | BROMODICHLOROMETHANE            |
| EPA 524.2 REV 4.1                           | BROMOFORM                 | EPA 524.2 REV 4.1                           | CHLORODIBROMOMETHANE            |
| EPA 524.2 REV 4.1                           | CHLOROFORM                | EPA 524.2 REV 4.1                           | TOTAL TRIHALOMETHANES (TTHMS)   |
| SM 2130 B-2011                              | TURBIDITY                 | SM 2320 B-2011                              | ALKALINITY AS CaCO <sub>3</sub> |
| SM 3500-CA B-2011                           | CALCIUM                   | SM 4500-CL G-2011                           | RESIDUAL FREE CHLORINE          |
| SM 4500-CL G-2011                           | TOTAL RESIDUAL CHLORINE   | SM 4500-F <sup>-</sup> C-2011               | FLUORIDE                        |
| SM 4500-H+ B-2011                           | PH                        | SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011 | NITRATE AS N                    |
| SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011 | NITRITE AS N              | SM 5310 B-2011                              | TOTAL ORGANIC CARBON (TOC)      |
| SM 9215 B-2004                              | HETEROTROPHIC PLATE COUNT | SM 9223 COLILERT MPN                        | ESCHERICHIA COLI                |
| SM 9223 COLILERT P/A                        | ESCHERICHIA COLI          | SM 9223 COLILERT P/A                        | TOTAL COLIFORMS                 |
| SM 9223 COLILERT-18 MPN                     | ESCHERICHIA COLI          |   |                                 |

**H2O Quality Laboratory a Division of the Prince William County Service Authority**  
 Woodbridge, VA

Phone: (703) 335-7976  
 DCLS Lab ID: 00240

Certificate No.: 10413

Certificate Expiration Date: 06/30/2020

| Method                                    | Analyte                                 | Method                                    | Analyte                                  |
|---|---|---|--|
| EPA 200.8 REV 5.4                         | ALUMINUM                                | EPA 200.8 REV 5.4                         | ANTIMONY                                 |
| EPA 200.8 REV 5.4                         | ARSENIC                                 | EPA 200.8 REV 5.4                         | BARIUM                                   |
| EPA 200.8 REV 5.4                         | BERYLLIUM                               | EPA 200.8 REV 5.4                         | CADMIUM                                  |
| EPA 200.8 REV 5.4                         | CHROMIUM                                | EPA 200.8 REV 5.4                         | COPPER                                   |
| EPA 200.8 REV 5.4                         | LEAD                                    | EPA 200.8 REV 5.4                         | MANGANESE                                |
| EPA 200.8 REV 5.4                         | NICKEL                                  | EPA 200.8 REV 5.4                         | SELENIUM                                 |
| EPA 200.8 REV 5.4                         | SILVER                                  | EPA 200.8 REV 5.4                         | THALLIUM                                 |
| EPA 200.8 REV 5.4                         | ZINC                                    | EPA 353.2 REV 2 (AS LACHAT 10-107-04-1-A) | NITRATE AS N                             |
| EPA 353.2 REV 2 (AS LACHAT 10-107-04-1-A) | NITRITE AS N                            | EPA 365.1 REV 2 (AS LACHAT 10-115-01-1-A) | ORTHOPHOSPHATE AS P                      |
| EPA 524.2 REV 4.1                         | 1,1,1-TRICHLOROETHANE                   | EPA 524.2 REV 4.1                         | 1,1,2-TRICHLOROETHANE                    |
| EPA 524.2 REV 4.1                         | 1,1-DICHLOROETHYLENE                    | EPA 524.2 REV 4.1                         | 1,2,4-TRICHLOROBENZENE                   |
| EPA 524.2 REV 4.1                         | 1,2-DICHLOROBENZENE (O-DICHLOROBENZENE) | EPA 524.2 REV 4.1                         | 1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE) |
| EPA 524.2 REV 4.1                         | 1,2-DICHLOROPROPANE                     | EPA 524.2 REV 4.1                         | 1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)  |
| EPA 524.2 REV 4.1                         | BENZENE                                 | EPA 524.2 REV 4.1                         | BROMODICHLOROMETHANE                     |
| EPA 524.2 REV 4.1                         | BROMOFORM                               | EPA 524.2 REV 4.1                         | CARBON TETRACHLORIDE                     |

**Certified Laboratories  
Virginia Safe Drinking Water and  
Virginia Reciprocal Safe Drinking Water Programs**

**Effective: 07/09/2019**

|                            |                                |                            |   |
|----------------------------|--------------------------------|----------------------------|---|
| EPA 524.2 REV 4.1          | CHLORO BENZENE                 | EPA 524.2 REV 4.1          | CHLORODIBROMOMETHANE                    |
| EPA 524.2 REV 4.1          | CHLOROFORM                     | EPA 524.2 REV 4.1          | CIS-1,2-DICHLOROETHYLENE                |
| EPA 524.2 REV 4.1          | ETHYLBENZENE                   | EPA 524.2 REV 4.1          | METHYLENE CHLORIDE<br>(DICHLOROMETHANE) |
| EPA 524.2 REV 4.1          | STYRENE                        | EPA 524.2 REV 4.1          | TETRACHLOROETHENE<br>(PERCHLOROETHENE)  |
| EPA 524.2 REV 4.1          | TOLUENE                        | EPA 524.2 REV 4.1          | TOTAL TRIHALOMETHANES (TTHMS)           |
| EPA 524.2 REV 4.1          | TRANS-1,2-DICHLOROETHENE       | EPA 524.2 REV 4.1          | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)  |
| EPA 524.2 REV 4.1          | VINYL CHLORIDE (CHLOROETHENE)  | EPA 524.2 REV 4.1          | XYLENE (TOTAL)                          |
| EPA 552.3 REV 1            | BROMOACETIC ACID               | EPA 552.3 REV 1            | CHLOROACETIC ACID                       |
| EPA 552.3 REV 1            | DIBROMOACETIC ACID             | EPA 552.3 REV 1            | DICHLOROACETIC ACID                     |
| EPA 552.3 REV 1            | HALOACETIC ACIDS - FIVE (HAA5) | EPA 552.3 REV 1            | TRICHLOROACETIC ACID (TCAA)             |
| SIMPLATE                   | HETEROTROPHIC PLATE COUNT      | SM 2320 B-2011             | ALKALINITY AS CaCO <sub>3</sub>         |
| SM 2510 B-2011             | CONDUCTIVITY                   | SM 3111 B-2011             | CALCIUM                                 |
| SM 3111 B-2011             | COPPER                         | SM 3111 B-2011             | SODIUM                                  |
| SM 3113 B-2010             | ARSENIC                        | SM 3113 B-2010             | IRON                                    |
| SM 3113 B-2010             | LEAD                           | SM 3113 B-2010             | MANGANESE                               |
| SM 3500-CA B-2011          | CALCIUM                        | SM 9222 B-1997             | TOTAL COLIFORMS                         |
| SM 9222 G (P/A) -1997      | ESCHERICHIA COLI               | SM 9223 COLILERT P/A       | ESCHERICHIA COLI                        |
| SM 9223 COLILERT P/A       | TOTAL COLIFORMS                | SM 9223 COLILERT-18<br>P/A | ESCHERICHIA COLI                        |
| SM 9223 COLILERT-18<br>P/A | TOTAL COLIFORMS                | SM 9223 COLISURE®          | ESCHERICHIA COLI                        |
| SM 9223 COLISURE®          | TOTAL COLIFORMS                |                            |   |

**Oakwood Scientific Laboratory**

Mechanicsville, VA

Certificate No.: 10480

Certificate Expiration Date: 06/30/2020

Phone: (804) 730-3263

DCLS Lab ID: 00242

| Method               | Analyte                   | Method               | Analyte          |
|----------------------|---------------------------|----------------------|------------------|
| SM 9215 B-2004       | HETEROTROPHIC PLATE COUNT | SM 9223 COLILERT P/A | ESCHERICHIA COLI |
| SM 9223 COLILERT P/A | TOTAL COLIFORMS           |                      |                  |

**City of Portsmouth Dept of Public Utilities**

Suffolk, VA

Certificate No.: 10405

Certificate Expiration Date: 06/30/2020

Phone: 757-539-2201 EXT. 232

DCLS Lab ID: 00255

| Method                        | Analyte                    | Method                | Analyte                         |
|-------------------------------|----------------------------|-----------------------|---------------------------------|
| SM 2130 B-2011                | TURBIDITY                  | SM 2320 B-2011        | ALKALINITY AS CaCO <sub>3</sub> |
| SM 2510 B-2011                | CONDUCTIVITY               | SM 3500-CA B-2011     | CALCIUM                         |
| SM 4500-F <sup>-</sup> C-2011 | FLUORIDE                   | SM 4500-H+ B-2011     | PH                              |
| SM 5310 B-2011                | TOTAL ORGANIC CARBON (TOC) | SM 9215 B-2004        | HETEROTROPHIC PLATE COUNT       |
| SM 9222 B-1997                | TOTAL COLIFORMS            | SM 9222 G (P/A) -1997 | ESCHERICHIA COLI                |

**Shenandoah Bacteriological Laboratory**

Cross Junction, VA

Certificate No.: 10481

Certificate Expiration Date: 06/30/2020

Phone: (540) 888-4500

DCLS Lab ID: 00257

| Method               | Analyte          | Method               | Analyte         |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**Certified Laboratories**  
**Virginia Safe Drinking Water and**  
**Virginia Reciprocal Safe Drinking Water Programs**  
**Effective: 07/09/2019**

**Pulaski County PSA Water Treatment Plant**  
 Draper, VA

Phone: (540) 980-7749  
 DCLS Lab ID: 00260

Certificate No.: 10435      Certificate Expiration Date: 06/30/2020

| Method               | Analyte          | Method               | Analyte         |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**City of Radford Drinking Water Laboratory**  
 Radford, VA

Phone: (540) 731-3662  
 DCLS Lab ID: 00275

Certificate No.: 10482      Certificate Expiration Date: 06/30/2020

| Method               | Analyte          | Method               | Analyte         |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**Western Virginia Water Authority Water Quality Laboratory**  
 Salem, VA

Phone: (540) 380-2687  
 DCLS Lab ID: 00279

Certificate No.: 10424      Certificate Expiration Date: 06/30/2020

| Method               | Analyte                         | Method                        | Analyte                    |
|----------------------|---------------------------------|-------------------------------|----------------------------|
| EPA 180.1 REV 2      | TURBIDITY                       | EPA 200.8 REV 5.4             | ALUMINUM                   |
| EPA 200.8 REV 5.4    | ANTIMONY                        | EPA 200.8 REV 5.4             | ARSENIC                    |
| EPA 200.8 REV 5.4    | BARIUM                          | EPA 200.8 REV 5.4             | BERYLLIUM                  |
| EPA 200.8 REV 5.4    | CADMIUM                         | EPA 200.8 REV 5.4             | CHROMIUM                   |
| EPA 200.8 REV 5.4    | COPPER                          | EPA 200.8 REV 5.4             | LEAD                       |
| EPA 200.8 REV 5.4    | MANGANESE                       | EPA 200.8 REV 5.4             | NICKEL                     |
| EPA 200.8 REV 5.4    | SELENIUM                        | EPA 200.8 REV 5.4             | SILVER                     |
| EPA 200.8 REV 5.4    | THALLIUM                        | EPA 200.8 REV 5.4             | ZINC                       |
| SM 2320 B-2011       | ALKALINITY AS CaCO <sub>3</sub> | SM 2510 B-2011                | CONDUCTIVITY               |
| SM 3500-CA B-2011    | CALCIUM                         | SM 4500-F <sup>-</sup> C-2011 | FLUORIDE                   |
| SM 4500-H+ B-2011    | PH                              | SM 5310 C-2011                | TOTAL ORGANIC CARBON (TOC) |
| SM 9215 B-2004       | HETEROTROPHIC PLATE COUNT       | SM 9223 COLILERT              | ESCHERICHIA COLI           |
| SM 9223 COLILERT P/A | ESCHERICHIA COLI                | MPN                           |                            |
|                      |                                 | SM 9223 COLILERT P/A          | TOTAL COLIFORMS            |

**Pace Analytical Services, LLC - Beaver WV**  
 Beaver, WV

Phone: (304) 255-2500  
 DCLS Lab ID: 00281

Certificate No.: 10460      Certificate Expiration Date: 06/30/2020

| Method            | Analyte      | Method                                    | Analyte       |
|-------------------|--------------|---|---------------|
| EPA 200.7 REV 4.4 | BARIUM       | EPA 200.7 REV 4.4                         | COPPER        |
| EPA 200.7 REV 4.4 | NICKEL       | EPA 200.7 REV 4.4                         | SODIUM        |
| EPA 200.8 REV 5.4 | ANTIMONY     | EPA 200.8 REV 5.4                         | ARSENIC       |
| EPA 200.8 REV 5.4 | BARIUM       | EPA 200.8 REV 5.4                         | BERYLLIUM     |
| EPA 200.8 REV 5.4 | CADMIUM      | EPA 200.8 REV 5.4                         | CHROMIUM      |
| EPA 200.8 REV 5.4 | COPPER       | EPA 200.8 REV 5.4                         | LEAD          |
| EPA 200.8 REV 5.4 | NICKEL       | EPA 200.8 REV 5.4                         | SELENIUM      |
| EPA 200.8 REV 5.4 | THALLIUM     | EPA 245.1 REV 3                           | MERCURY       |
| EPA 300.0 REV 2.1 | FLUORIDE     | EPA 300.0 REV 2.1                         | NITRATE AS N  |
| EPA 300.0 REV 2.1 | NITRITE AS N | EPA 335.4 REV 1.0 (AS SMARTCHEM 280-400E) | TOTAL CYANIDE |

**Certified Laboratories**  
**Virginia Safe Drinking Water and**  
**Virginia Reciprocal Safe Drinking Water Programs**  
**Effective: 07/09/2019**

|   |   |                      |   |
|---|---|----------------------|---|
| EPA 353.2 REV 2 (AS LACHAT 10-107-04-1-C) | NITRATE/NITRITE                         | EPA 502.2 REV 2.1    | BROMODICHLOROMETHANE                        |
| EPA 502.2 REV 2.1                         | BROMOFORM                               | EPA 502.2 REV 2.1    | CHLORODIBROMOMETHANE                        |
| EPA 502.2 REV 2.1                         | CHLOROFORM                              | EPA 502.2 REV 2.1    | TOTAL TRIHALOMETHANES (TTHMS)               |
| EPA 504.1 REV 1.1                         | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)      | EPA 504.1 REV 1.1    | 1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE) |
| EPA 524.2 REV 4.1                         | 1,1,1-TRICHLOROETHANE                   | EPA 524.2 REV 4.1    | 1,1,2-TRICHLOROETHANE                       |
| EPA 524.2 REV 4.1                         | 1,1-DICHLOROETHYLENE                    | EPA 524.2 REV 4.1    | 1,2,4-TRICHLOROBENZENE                      |
| EPA 524.2 REV 4.1                         | 1,2-DICHLOROBENZENE (O-DICHLOROBENZENE) | EPA 524.2 REV 4.1    | 1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)    |
| EPA 524.2 REV 4.1                         | 1,2-DICHLOROPROPANE                     | EPA 524.2 REV 4.1    | 1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)     |
| EPA 524.2 REV 4.1                         | BENZENE                                 | EPA 524.2 REV 4.1    | BROMODICHLOROMETHANE                        |
| EPA 524.2 REV 4.1                         | BROMOFORM                               | EPA 524.2 REV 4.1    | CARBON TETRACHLORIDE                        |
| EPA 524.2 REV 4.1                         | CHLOROBENZENE                           | EPA 524.2 REV 4.1    | CHLORODIBROMOMETHANE                        |
| EPA 524.2 REV 4.1                         | CHLOROFORM                              | EPA 524.2 REV 4.1    | CIS-1,2-DICHLOROETHYLENE                    |
| EPA 524.2 REV 4.1                         | ETHYLBENZENE                            | EPA 524.2 REV 4.1    | METHYLENE CHLORIDE (DICHLOROMETHANE)        |
| EPA 524.2 REV 4.1                         | STYRENE                                 | EPA 524.2 REV 4.1    | TETRACHLOROETHENE (PERCHLOROETHENE)         |
| EPA 524.2 REV 4.1                         | TOLUENE                                 | EPA 524.2 REV 4.1    | TOTAL TRIHALOMETHANES (TTHMS)               |
| EPA 524.2 REV 4.1                         | TRANS-1,2-DICHLOROETHENE                | EPA 524.2 REV 4.1    | TRICHLOROETHENE (TRICHLOROETHYLENE)         |
| EPA 524.2 REV 4.1                         | VINYL CHLORIDE (CHLOROETHENE)           | EPA 524.2 REV 4.1    | XYLENE (TOTAL)                              |
| EPA 552.2 REV 1                           | BROMOACETIC ACID                        | EPA 552.2 REV 1      | CHLOROACETIC ACID                           |
| EPA 552.2 REV 1                           | DIBROMOACETIC ACID                      | EPA 552.2 REV 1      | DICHLOROACETIC ACID                         |
| EPA 552.2 REV 1                           | HALOACETIC ACIDS - FIVE (HAA5)          | EPA 552.2 REV 1      | TRICHLOROACETIC ACID (TCAA)                 |
| SIMPLATE                                  | HETEROTROPHIC PLATE COUNT               | SM 9223 COLILERT MPN | ESCHERICHIA COLI                            |
| SM 9223 COLILERT MPN                      | TOTAL COLIFORMS                         | SM 9223 COLISURE®    | ESCHERICHIA COLI                            |
| SM 9223 COLISURE®                         | TOTAL COLIFORMS                         |                      |   |

**Research & Analytical Laboratories, Inc.**  
 Kernersville, NC

Phone: (336) 996-2841  
 DCLS Lab ID: 00285

Certificate No.: 10452

Certificate Expiration Date: 06/30/2020

| <b>Method</b>     | <b>Analyte</b>                              | <b>Method</b>     | <b>Analyte</b>                                |
|-------------------|---|-------------------|---|
| EPA 200.7 REV 4.4 | BARIUM                                      | EPA 200.7 REV 4.4 | BERYLLIUM                                     |
| EPA 200.7 REV 4.4 | CADMIUM                                     | EPA 200.7 REV 4.4 | CHROMIUM                                      |
| EPA 200.7 REV 4.4 | COPPER                                      | EPA 200.7 REV 4.4 | IRON  |
| EPA 200.7 REV 4.4 | MANGANESE                                   | EPA 200.7 REV 4.4 | NICKEL  |
| EPA 200.7 REV 4.4 | SODIUM                                      | EPA 200.8 REV 5.4 | ANTIMONY                                      |
| EPA 200.8 REV 5.4 | ARSENIC                                     | EPA 200.8 REV 5.4 | BARIUM  |
| EPA 200.8 REV 5.4 | BERYLLIUM                                   | EPA 200.8 REV 5.4 | CADMIUM                                       |
| EPA 200.8 REV 5.4 | CHROMIUM                                    | EPA 200.8 REV 5.4 | COPPER  |
| EPA 200.8 REV 5.4 | IRON  | EPA 200.8 REV 5.4 | LEAD  |
| EPA 200.8 REV 5.4 | MANGANESE                                   | EPA 200.8 REV 5.4 | NICKEL  |
| EPA 200.8 REV 5.4 | SELENIUM                                    | EPA 200.8 REV 5.4 | THALLIUM                                      |
| EPA 245.1 REV 3   | MERCURY                                     | EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)            |
| EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE) | EPA 508 REV 3.1   | CHLORDANE, TOTAL                              |
| EPA 508 REV 3.1   | PCBS, AS AROCLORS                           | EPA 508 REV 3.1   | TOXAPHENE (CHLORINATED CAMPHENE)              |
| EPA 508A REV 1    | TOTAL PCBS AS DECACHLOROBIPHENYL            | EPA 515.3 REV 1   | 2,4-D   |
| EPA 515.3 REV 1   | DALAPON                                     | EPA 515.3 REV 1   | DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP) |
| EPA 515.3 REV 1   | PENTACHLOROPHENOL                           | EPA 515.3 REV 1   | PICLORAM                                      |
| EPA 515.3 REV 1   | SILVEX (2,4,5-TP)                           | EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                         |
| EPA 524.2 REV 4.1 | 1,1,2-TRICHLOROETHANE                       | EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                          |



**Certified Laboratories  
Virginia Safe Drinking Water and  
Virginia Reciprocal Safe Drinking Water Programs**

**Effective: 07/09/2019**

|   |  |   |   |
|---|--|---|---|
| EPA 524.2 REV 4.1                           | 1,2,4-TRICHLOROBENZENE   | EPA 524.2 REV 4.1                           | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE)            |
| EPA 524.2 REV 4.1                           | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE)                        | EPA 524.2 REV 4.1                           | 1,2-DICHLOROPROPANE                                   |
| EPA 524.2 REV 4.1                           | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)                         | EPA 524.2 REV 4.1                           | BENZENE   |
| EPA 524.2 REV 4.1                           | BROMODICHLOROMETHANE   | EPA 524.2 REV 4.1                           | BROMOFORM   |
| EPA 524.2 REV 4.1                           | CARBON TETRACHLORIDE   | EPA 524.2 REV 4.1                           | CHLOROENZENE  |
| EPA 524.2 REV 4.1                           | CHLORODIBROMOMETHANE   | EPA 524.2 REV 4.1                           | CHLOROFORM  |
| EPA 524.2 REV 4.1                           | CIS-1,2-DICHLOROETHYLENE   | EPA 524.2 REV 4.1                           | ETHYLBENZENE  |
| EPA 524.2 REV 4.1                           | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)                            | EPA 524.2 REV 4.1                           | STYRENE   |
| EPA 524.2 REV 4.1                           | TETRACHLOROETHENE<br>(PERCHLOROETHENE)                             | EPA 524.2 REV 4.1                           | TOLUENE   |
| EPA 524.2 REV 4.1                           | TOTAL TRIHALOMETHANES (TTHMS)                                      | EPA 524.2 REV 4.1                           | TRANS-1,2-DICHLOROETHENE                              |
| EPA 524.2 REV 4.1                           | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)                             | EPA 524.2 REV 4.1                           | VINYL CHLORIDE (CHLOROETHENE)                         |
| EPA 524.2 REV 4.1                           | XYLENE (TOTAL)   | EPA 525.2 REV 2                             | ALACHLOR  |
| EPA 525.2 REV 2                             | ATRAZINE   | EPA 525.2 REV 2                             | BENZO(A)PYRENE  |
| EPA 525.2 REV 2                             | BIS(2-ETHYLHEXYL) PHTHALATE<br>(DI(2-ETHYLHEXYL)PHTHALATE), (DEHP) | EPA 525.2 REV 2                             | BIS(2-ETHYLHEXYL)ADIPATE<br>(DI(2-ETHYLHEXYL)ADIPATE) |
| EPA 525.2 REV 2                             | ENDRIN   | EPA 525.2 REV 2                             | GAMMA-BHC (LINDANE,<br>GAMMA-HEXACHLOROCYCLOHEXANE)   |
| EPA 525.2 REV 2                             | HEPTACHLOR   | EPA 525.2 REV 2                             | HEPTACHLOR EPOXIDE                                    |
| EPA 525.2 REV 2                             | HEXACHLOROBENZENE  | EPA 525.2 REV 2                             | HEXACHLOROCYCLOPENTADIENE                             |
| EPA 525.2 REV 2                             | METHOXYCHLOR   | EPA 525.2 REV 2                             | SIMAZINE  |
| EPA 531.1 REV 3.1                           | CARBOFURAN (FURADEN)   | EPA 531.1 REV 3.1                           | OXAMYL  |
| EPA 552.2 REV 1                             | BROMOACETIC ACID   | EPA 552.2 REV 1                             | CHLOROACETIC ACID                                     |
| EPA 552.2 REV 1                             | DIBROMOACETIC ACID   | EPA 552.2 REV 1                             | DICHLOROACETIC ACID                                   |
| EPA 552.2 REV 1                             | HALOACETIC ACIDS - FIVE (HAA5)                                     | EPA 552.2 REV 1                             | TRICHLOROACETIC ACID (TCAA)                           |
| HACH 10206                                  | NITRATE AS N   | MODIFIED COLITAG®                           | ESCHERICHIA COLI                                      |
| MODIFIED COLITAG®                           | TOTAL COLIFORMS  | SM 2320 B-2011                              | ALKALINITY AS CaCO <sub>3</sub>                       |
| SM 2540 C-2011                              | RESIDUE-FILTERABLE (TDS)   | SM 4500-CN <sup>-</sup> E-2011              | CYANIDE   |
| SM 4500-F <sup>-</sup> C-2011               | FLUORIDE   | SM 4500-NO <sub>2</sub> <sup>-</sup> B-2011 | NITRITE AS N  |
| SM 4500-NO <sub>3</sub> <sup>-</sup> E-2011 | NITRATE AS N   | SM 4500-SO <sub>4</sub> <sup>-</sup> E-2011 | SULFATE   |
| SM 5310 B-2011                              | DISSOLVED ORGANIC CARBON (DOC)                                     | SM 5310 B-2011                              | TOTAL ORGANIC CARBON (TOC)                            |
| SM 5910 B-2011                              | UV 254   | SM 9215 B-2004                              | HETEROTROPHIC PLATE COUNT                             |
| SM 9221 B-2006                              | TOTAL COLIFORMS  | SM 9221 F (P/A) -2006                       | ESCHERICHIA COLI                                      |
| SM 9223 COLILERT P/A                        | ESCHERICHIA COLI   | SM 9223 COLILERT P/A                        | TOTAL COLIFORMS                                       |

**City of Richmond Environmental Management Laboratory**

Richmond, VA

Certificate No.: 10406

Certificate Expiration Date: 06/30/2020

Phone: (804) 646-1817

DCLS Lab ID: 00290

| <b>Method</b>                 | <b>Analyte</b>                  | <b>Method</b>        | <b>Analyte</b>   |
|-------------------------------|---------------------------------|----------------------|------------------|
| SIMPLATE                      | HETEROTROPHIC PLATE COUNT       | SM 2130 B-2011       | TURBIDITY        |
| SM 2320 B-2011                | ALKALINITY AS CaCO <sub>3</sub> | SM 2510 B-2011       | CONDUCTIVITY     |
| SM 4500-F <sup>-</sup> C-2011 | FLUORIDE                        | SM 4500-H+ B-2011    | PH               |
| SM 4500-P E-2011              | ORTHOPHOSPHATE AS P             | SM 9223 COLILERT P/A | ESCHERICHIA COLI |
| SM 9223 COLILERT P/A          | TOTAL COLIFORMS                 |                      |                  |

**Rivanna Water & Sewer Authority**

Charlottesville, VA

Certificate No.: 10417

Certificate Expiration Date: 06/30/2020

Phone: (434) 977-2970

DCLS Lab ID: 00295

| <b>Method</b> | <b>Analyte</b> | <b>Method</b> | <b>Analyte</b> |
|---------------|----------------|---------------|----------------|
|---------------|----------------|---------------|----------------|

**Certified Laboratories  
Virginia Safe Drinking Water and  
Virginia Reciprocal Safe Drinking Water Programs**

**Effective: 07/09/2019**

|                               |                 |                   |                  |
|-------------------------------|-----------------|-------------------|------------------|
| SM 3111 B-2011                | IRON            | SM 3111 B-2011    | MANGANESE        |
| SM 4500-F <sup>-</sup> C-2011 | FLUORIDE        | SM 9223 COLISURE® | ESCHERICHIA COLI |
| SM 9223 COLISURE®             | TOTAL COLIFORMS |                   |                  |

**Roanoke Rapids Sanitary District**

Roanoke Rapids, NC

Certificate No.: 10453

Certificate Expiration Date: 06/30/2020

Phone: (252) 537-3319

DCLS Lab ID: 00298

| <b>Method</b>        | <b>Analyte</b>   | <b>Method</b>        | <b>Analyte</b>  |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |
| SM 9223 COLISURE®    | ESCHERICHIA COLI | SM 9223 COLISURE®    | TOTAL COLIFORMS |

**Salem Water Department**

Salem, VA

Certificate No.: 10484

Certificate Expiration Date: 06/30/2020

Phone: (540) 375-3074

DCLS Lab ID: 00300

| <b>Method</b>        | <b>Analyte</b>   | <b>Method</b>        | <b>Analyte</b>   |
|----------------------|------------------|----------------------|------------------|
| SM 9223 COLILERT     | ESCHERICHIA COLI | SM 9223 COLILERT P/A | ESCHERICHIA COLI |
| MPN                  |                  |                      |                  |
| SM 9223 COLILERT P/A | TOTAL COLIFORMS  |                      |                  |

**VDH DSS Accomac Field Office**

Accomac, VA

Certificate No.: 10436

Certificate Expiration Date: 06/30/2020

Phone: (757) 787-5864

DCLS Lab ID: 00305

| <b>Method</b>        | <b>Analyte</b>   | <b>Method</b>        | <b>Analyte</b>  |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**VDH DSS Norfolk Field Office**

Norfolk, VA

Certificate No.: 10437

Certificate Expiration Date: 06/30/2020

Phone: (757) 683-8643

DCLS Lab ID: 00310

| <b>Method</b>        | <b>Analyte</b>   | <b>Method</b>        | <b>Analyte</b>  |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**VDH DSS White Stone Field Office**

White Stone, VA

Certificate No.: 10486

Certificate Expiration Date: 06/30/2020

Phone: (804) 435-1095

DCLS Lab ID: 00315

| <b>Method</b>        | <b>Analyte</b>   | <b>Method</b>        | <b>Analyte</b>  |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**Certified Laboratories**  
**Virginia Safe Drinking Water and**  
**Virginia Reciprocal Safe Drinking Water Programs**  
**Effective: 07/09/2019**

**Halifax County Service Authority: Leigh Street Water Treatment Plant**  
 South Boston, VA

Phone: (434) 575-4255  
 DCLS Lab ID: 00320

Certificate No.: 10414

Certificate Expiration Date: 06/30/2020

| Method            | Analyte          | Method            | Analyte         |
|-------------------|------------------|-------------------|-----------------|
| SM 9223 COLISURE® | ESCHERICHIA COLI | SM 9223 COLISURE® | TOTAL COLIFORMS |

**City of Staunton Water Treatment Plant**  
 Staunton, VA

Phone: (540) 332-3961  
 DCLS Lab ID: 00325

Certificate No.: 10487

Certificate Expiration Date: 06/30/2020

| Method            | Analyte          | Method            | Analyte         |
|-------------------|------------------|-------------------|-----------------|
| SM 9223 COLISURE® | ESCHERICHIA COLI | SM 9223 COLISURE® | TOTAL COLIFORMS |

**G. Robert House Water Treatment Facility**  
 Chuckatuck, VA

Phone: (757) 514-7041  
 DCLS Lab ID: 00330

Certificate No.: 10430

Certificate Expiration Date: 06/30/2020

| Method                        | Analyte                   | Method                         | Analyte                         |
|-------------------------------|---------------------------|--------------------------------|---------------------------------|
| SM 2130 B-2011                | TURBIDITY                 | SM 2320 B-2011                 | ALKALINITY AS CaCO <sub>3</sub> |
| SM 2510 B-2011                | CONDUCTIVITY              | SM 4500-CL <sup>-</sup> B-2011 | CHLORIDE                        |
| SM 4500-F <sup>-</sup> C-2011 | FLUORIDE                  | SM 4500-H <sup>+</sup> B-2011  | PH                              |
| SM 9215 B-2004                | HETEROTROPHIC PLATE COUNT | SM 9222 B-1997                 | TOTAL COLIFORMS                 |
| SM 9222 G (P/A) -1997         | ESCHERICHIA COLI          | SM 9223 COLILERT P/A           | ESCHERICHIA COLI                |
| SM 9223 COLILERT P/A          | TOTAL COLIFORMS           |                                |                                 |

**Town of Leesburg Water Treatment Plant**  
 Leesburg, VA

Phone: (703) 737-7110  
 DCLS Lab ID: 00340

Certificate No.: 10488

Certificate Expiration Date: 06/30/2020

| Method               | Analyte                   | Method               | Analyte          |
|----------------------|---------------------------|----------------------|------------------|
| SM 9215 B-2004       | HETEROTROPHIC PLATE COUNT | SM 9223 COLILERT P/A | ESCHERICHIA COLI |
| SM 9223 COLILERT P/A | TOTAL COLIFORMS           |                      |                  |

**Three Springs Water Plant**  
 McGaheysville, VA

Phone: (540) 289-6376  
 DCLS Lab ID: 00342

Certificate No.: 10489

Certificate Expiration Date: 06/30/2020

| Method            | Analyte          | Method            | Analyte         |
|-------------------|------------------|-------------------|-----------------|
| SM 9223 COLISURE® | ESCHERICHIA COLI | SM 9223 COLISURE® | TOTAL COLIFORMS |

**Certified Laboratories  
Virginia Safe Drinking Water and  
Virginia Reciprocal Safe Drinking Water Programs  
Effective: 07/09/2019**

**NAVFAC Mid-Atlantic Environmental Laboratory**  
Norfolk, VA

Phone: (757) 341-0473  
DCLS Lab ID: 00365

Certificate No.: 10416      Certificate Expiration Date: 06/30/2020

| <b>Method</b>        | <b>Analyte</b>            | <b>Method</b>        | <b>Analyte</b>   |
|----------------------|---------------------------|----------------------|------------------|
| SM 9215 B-2004       | HETEROTROPHIC PLATE COUNT | SM 9223 COLILERT P/A | ESCHERICHIA COLI |
| SM 9223 COLILERT P/A | TOTAL COLIFORMS           |                      |                  |

**VDACS RAHL Harrisonburg**  
Harrisonburg, VA

Phone: (540) 209-9133  
DCLS Lab ID: 00370

Certificate No.: 10491      Certificate Expiration Date: 06/30/2020

| <b>Method</b>        | <b>Analyte</b>   | <b>Method</b>        | <b>Analyte</b>  |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**VDACS RAHL Lynchburg**  
Lynchburg, VA

Phone: (434) 200-9988  
DCLS Lab ID: 00380

Certificate No.: 10492      Certificate Expiration Date: 06/30/2020

| <b>Method</b>     | <b>Analyte</b>   | <b>Method</b>     | <b>Analyte</b>  |
|-------------------|------------------|-------------------|-----------------|
| SM 9223 COLISURE® | ESCHERICHIA COLI | SM 9223 COLISURE® | TOTAL COLIFORMS |

**VDACS RAHL Warrenton**  
Warrenton, VA

Phone: (540) 316-6543  
DCLS Lab ID: 00385

Certificate No.: 10240      Certificate Expiration Date: 06/30/2020

| <b>Method</b>        | <b>Analyte</b>   | <b>Method</b>        | <b>Analyte</b>  |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**VDACS RAHL Wytheville**  
Wytheville, VA

Phone: (276) 228-5501  
DCLS Lab ID: 00390

Certificate No.: 10421      Certificate Expiration Date: 06/30/2020

| <b>Method</b>        | <b>Analyte</b>   | <b>Method</b>        | <b>Analyte</b>  |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**Virginia American Water Company - Hopewell**  
Hopewell, VA

Phone: (804) 943-5589  
DCLS Lab ID: 00405

Certificate No.: 10438      Certificate Expiration Date: 06/30/2020

| <b>Method</b>        | <b>Analyte</b>            | <b>Method</b>        | <b>Analyte</b>   |
|----------------------|---------------------------|----------------------|------------------|
| SIMPLATE             | HETEROTROPHIC PLATE COUNT | SM 9223 COLILERT P/A | ESCHERICHIA COLI |
| SM 9223 COLILERT P/A | TOTAL COLIFORMS           |                      |                  |

**Certified Laboratories**  
**Virginia Safe Drinking Water and**  
**Virginia Reciprocal Safe Drinking Water Programs**  
**Effective: 07/09/2019**

**Virginia Beach Department of Public Utilities**  
 Virginia Beach, VA

Phone: (757) 385-1400  
 DCLS Lab ID: 00410

Certificate No.: 10439

Certificate Expiration Date: 06/30/2020

| Method                  | Analyte                   | Method                  | Analyte          |
|-------------------------|---------------------------|-------------------------|------------------|
| SM 9215 B-2004          | HETEROTROPHIC PLATE COUNT | SM 9223 COLILERT P/A    | ESCHERICHIA COLI |
| SM 9223 COLILERT P/A    | TOTAL COLIFORMS           | SM 9223 COLILERT-18 P/A | ESCHERICHIA COLI |
| SM 9223 COLILERT-18 P/A | TOTAL COLIFORMS           |                         |                  |

**Virginia American Water Company - Alexandria**  
 Alexandria, VA

Phone: (703) 706-3867  
 DCLS Lab ID: 00413

Certificate No.: 10422

Certificate Expiration Date: 06/30/2020

| Method               | Analyte                   | Method               | Analyte         |
|----------------------|---------------------------|----------------------|-----------------|
| SIMPLATE             | HETEROTROPHIC PLATE COUNT | SM 4500-H+ B-2011    | PH              |
| SM 9223 COLILERT P/A | ESCHERICHIA COLI          | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**Washington County Service Authority**  
 Abingdon, VA

Phone: (276) 628-7151 ext 233  
 DCLS Lab ID: 00415

Certificate No.: 10493

Certificate Expiration Date: 06/30/2020

| Method            | Analyte          | Method            | Analyte         |
|-------------------|------------------|-------------------|-----------------|
| SM 9223 COLISURE® | ESCHERICHIA COLI | SM 9223 COLISURE® | TOTAL COLIFORMS |

**Water Testing Labs of Maryland, Inc. / Chesapeake Labs, Inc. - Salisbury**  
 Salisbury, MD

Phone: (410) 546-1318  
 DCLS Lab ID: 00416

Certificate No.: 10456

Certificate Expiration Date: 06/30/2020

| Method               | Analyte          | Method               | Analyte         |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**National Testing Laboratories, Ltd.**  
 Ypsilanti, MI

Phone: (440) 449-2525  
 DCLS Lab ID: 00417

Certificate No.: 10450

Certificate Expiration Date: 06/30/2020

| Method            | Analyte   | Method            | Analyte        |
|-------------------|-----------|-------------------|----------------|
| EPA 200.7 REV 4.4 | ALUMINUM  | EPA 200.7 REV 4.4 | BARIUM         |
| EPA 200.7 REV 4.4 | BERYLLIUM | EPA 200.7 REV 4.4 | CADMIUM        |
| EPA 200.7 REV 4.4 | CALCIUM   | EPA 200.7 REV 4.4 | CHROMIUM       |
| EPA 200.7 REV 4.4 | COPPER    | EPA 200.7 REV 4.4 | IRON           |
| EPA 200.7 REV 4.4 | MAGNESIUM | EPA 200.7 REV 4.4 | MANGANESE      |
| EPA 200.7 REV 4.4 | NICKEL    | EPA 200.7 REV 4.4 | SILICA AS SIO2 |
| EPA 200.7 REV 4.4 | SILVER    | EPA 200.7 REV 4.4 | SODIUM         |
| EPA 200.7 REV 4.4 | ZINC      | EPA 200.8 REV 5.4 | ANTIMONY       |
| EPA 200.8 REV 5.4 | ARSENIC   | EPA 200.8 REV 5.4 | BARIUM         |
| EPA 200.8 REV 5.4 | BERYLLIUM | EPA 200.8 REV 5.4 | CADMIUM        |

**Certified Laboratories**  
**Virginia Safe Drinking Water and**  
**Virginia Reciprocal Safe Drinking Water Programs**

**Effective: 07/09/2019**

|                   |  |                   |   |
|-------------------|--|-------------------|---|
| EPA 200.8 REV 5.4 | CHROMIUM   | EPA 200.8 REV 5.4 | COPPER  |
| EPA 200.8 REV 5.4 | LEAD   | EPA 200.8 REV 5.4 | MANGANESE   |
| EPA 200.8 REV 5.4 | MERCURY  | EPA 200.8 REV 5.4 | NICKEL  |
| EPA 200.8 REV 5.4 | SELENIUM   | EPA 200.8 REV 5.4 | SILVER  |
| EPA 200.8 REV 5.4 | THALLIUM   | EPA 200.8 REV 5.4 | URANIUM   |
| EPA 200.8 REV 5.4 | ZINC   | EPA 300.0 REV 2.1 | BROMIDE   |
| EPA 300.0 REV 2.1 | CHLORIDE   | EPA 300.0 REV 2.1 | FLUORIDE  |
| EPA 300.0 REV 2.1 | NITRATE AS N                                       | EPA 300.0 REV 2.1 | NITRITE AS N  |
| EPA 300.0 REV 2.1 | ORTHOPHOSPHATE AS P                                | EPA 300.0 REV 2.1 | SULFATE   |
| EPA 300.1         | BROMATE  | EPA 300.1         | BROMIDE   |
| EPA 300.1         | CHLORITE   | EPA 326.0 REV 1   | BROMATE   |
| EPA 504.1 REV 1.1 | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)                 | EPA 504.1 REV 1.1 | 1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)                     |
| EPA 505 REV 2.1   | CHLORDANE, TOTAL                                   | EPA 505 REV 2.1   | ENDRIN  |
| EPA 505 REV 2.1   | GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)   | EPA 505 REV 2.1   | HEPTACHLOR  |
| EPA 505 REV 2.1   | HEPTACHLOR EPOXIDE                                 | EPA 505 REV 2.1   | HEXACHLOROBENZENE   |
| EPA 505 REV 2.1   | HEXACHLOROCYCLOPENTADIENE                          | EPA 505 REV 2.1   | METHOXYCHLOR  |
| EPA 505 REV 2.1   | PCBS, AS AROCLORS                                  | EPA 505 REV 2.1   | TOXAPHENE (CHLORINATED CAMPHENE)                                |
| EPA 515.4 REV 1   | 2,4-D  | EPA 515.4 REV 1   | DALAPON   |
| EPA 515.4 REV 1   | DINOSEB  | EPA 515.4 REV 1   | PENTACHLOROPHENOL   |
| EPA 515.4 REV 1   | (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)              |                   |   |
| EPA 515.4 REV 1   | PICLORAM   | EPA 515.4 REV 1   | SILVEX (2,4,5-TP)   |
| EPA 524.2 REV 4.1 | 1,1,1-TRICHLOROETHANE                              | EPA 524.2 REV 4.1 | 1,1,2-TRICHLOROETHANE   |
| EPA 524.2 REV 4.1 | 1,1-DICHLOROETHYLENE                               | EPA 524.2 REV 4.1 | 1,2,4-TRICHLOROETHANE   |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROETHANE (O-DICHLOROETHANE)              | EPA 524.2 REV 4.1 | 1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)                        |
| EPA 524.2 REV 4.1 | 1,2-DICHLOROPROPANE                                | EPA 524.2 REV 4.1 | 1,4-DICHLOROETHANE (P-DICHLOROETHANE)                           |
| EPA 524.2 REV 4.1 | BENZENE  | EPA 524.2 REV 4.1 | BROMODICHLOROMETHANE  |
| EPA 524.2 REV 4.1 | BROMOFORM  | EPA 524.2 REV 4.1 | CARBON TETRACHLORIDE  |
| EPA 524.2 REV 4.1 | CHLOROETHANE                                       | EPA 524.2 REV 4.1 | CHLORODIBROMOMETHANE  |
| EPA 524.2 REV 4.1 | CHLOROFORM   | EPA 524.2 REV 4.1 | CIS-1,2-DICHLOROETHYLENE  |
| EPA 524.2 REV 4.1 | ETHYLBENZENE                                       | EPA 524.2 REV 4.1 | METHYLENE CHLORIDE (DICHLOROMETHANE)                            |
| EPA 524.2 REV 4.1 | STYRENE  | EPA 524.2 REV 4.1 | TETRACHLOROETHENE (PERCHLOROETHENE)                             |
| EPA 524.2 REV 4.1 | TOLUENE  | EPA 524.2 REV 4.1 | TOTAL TRIHALOMETHANES (TTHMS)                                   |
| EPA 524.2 REV 4.1 | TRANS-1,2-DICHLOROETHENE                           | EPA 524.2 REV 4.1 | TRICHLOROETHENE (TRICHLOROETHYLENE)                             |
| EPA 524.2 REV 4.1 | VINYL CHLORIDE (CHLOROETHENE)                      | EPA 524.2 REV 4.1 | XYLENE (TOTAL)  |
| EPA 525.2 REV 2   | ALACHLOR   | EPA 525.2 REV 2   | ATRAZINE  |
| EPA 525.2 REV 2   | BENZO(A)PYRENE                                     | EPA 525.2 REV 2   | BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP) |
| EPA 525.2 REV 2   | BIS(2-ETHYLHEXYL)ADIPATE (DI(2-ETHYLHEXYL)ADIPATE) | EPA 525.2 REV 2   | ENDRIN  |
| EPA 525.2 REV 2   | GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)   | EPA 525.2 REV 2   | HEPTACHLOR  |
| EPA 525.2 REV 2   | HEPTACHLOR EPOXIDE                                 | EPA 525.2 REV 2   | HEXACHLOROBENZENE   |
| EPA 525.2 REV 2   | HEXACHLOROCYCLOPENTADIENE                          | EPA 525.2 REV 2   | METHOXYCHLOR  |
| EPA 525.2 REV 2   | SIMAZINE   | EPA 531.2 REV 1   | CARBOFURAN (FURADEN)  |
| EPA 531.2 REV 1   | OXAMYL   | EPA 547           | GLYPHOSATE  |
| EPA 548.1 REV 1   | ENDOTHALL  | EPA 549.2 REV 1   | DIQUAT  |
| EPA 552.2 REV 1   | BROMOACETIC ACID                                   | EPA 552.2 REV 1   | CHLOROACETIC ACID   |
| EPA 552.2 REV 1   | DALAPON  | EPA 552.2 REV 1   | DIBROMOACETIC ACID  |
| EPA 552.2 REV 1   | DICHLOROACETIC ACID                                | EPA 552.2 REV 1   | HALOACETIC ACIDS - FIVE (HAA5)                                  |
| EPA 552.2 REV 1   | TRICHLOROACETIC ACID (TCAA)                        | SM 2120 B-2011    | COLOR   |
| SM 2130 B-2011    | TURBIDITY  | SM 2320 B-2011    | ALKALINITY AS CaCO3   |
| SM 2510 B-2011    | CONDUCTIVITY                                       | SM 2540 C-2011    | RESIDUE-FILTERABLE (TDS)  |
| SM 3113 B-2010    | ARSENIC  | SM 3113 B-2010    | LEAD  |
| SM 3113 B-2010    | SELENIUM   | SM 5310 C-2011    | TOTAL ORGANIC CARBON (TOC)                                      |

**Certified Laboratories**  
**Virginia Safe Drinking Water and**  
**Virginia Reciprocal Safe Drinking Water Programs**  
**Effective: 07/09/2019**

SM 5540 C-2011  
 SM 9223 COLILERT P/A

SURFACTANTS - MBAS  
 TOTAL COLIFORMS

SM 9223 COLILERT P/A

ESCHERICHIA COLI

**Washington Aqueduct Laboratory**  
 Washington, DC

Certificate No.: 10454

Phone:

DCLS Lab ID: 00425

Certificate Expiration Date: 06/30/2020

| Method                        | Analyte                                  | Method                  | Analyte                                     |
|-------------------------------|--|-------------------------|---|
| EPA 200.8 REV 5.4             | ANTIMONY                                 | EPA 200.8 REV 5.4       | ARSENIC                                     |
| EPA 200.8 REV 5.4             | BARIUM                                   | EPA 200.8 REV 5.4       | BERYLLIUM                                   |
| EPA 200.8 REV 5.4             | CADMIUM                                  | EPA 200.8 REV 5.4       | CHROMIUM                                    |
| EPA 200.8 REV 5.4             | COPPER                                   | EPA 200.8 REV 5.4       | LEAD  |
| EPA 200.8 REV 5.4             | MERCURY                                  | EPA 200.8 REV 5.4       | NICKEL                                      |
| EPA 200.8 REV 5.4             | SELENIUM                                 | EPA 200.8 REV 5.4       | THALLIUM                                    |
| EPA 200.8 REV 5.4             | URANIUM                                  | EPA 300.0 REV 2.1       | FLUORIDE                                    |
| EPA 300.0 REV 2.1             | NITRATE AS N                             | EPA 300.0 REV 2.1       | NITRITE AS N                                |
| EPA 524.2 REV 4.1             | 1,1,1-TRICHLOROETHANE                    | EPA 524.2 REV 4.1       | 1,1,2-TRICHLOROETHANE                       |
| EPA 524.2 REV 4.1             | 1,1-DICHLOROETHYLENE                     | EPA 524.2 REV 4.1       | 1,2,4-TRICHLOROENZENE                       |
| EPA 524.2 REV 4.1             | 1,2-DICHLOROENZENE<br>(O-DICHLOROENZENE) | EPA 524.2 REV 4.1       | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE) |
| EPA 524.2 REV 4.1             | 1,2-DICHLOROPROPANE                      | EPA 524.2 REV 4.1       | 1,4-DICHLOROENZENE<br>(P-DICHLOROENZENE)    |
| EPA 524.2 REV 4.1             | BENZENE                                  | EPA 524.2 REV 4.1       | BROMODICHLOROMETHANE                        |
| EPA 524.2 REV 4.1             | BROMOFORM                                | EPA 524.2 REV 4.1       | CARBON TETRACHLORIDE                        |
| EPA 524.2 REV 4.1             | CHLOROENZENE                             | EPA 524.2 REV 4.1       | CHLORODIBROMOMETHANE                        |
| EPA 524.2 REV 4.1             | CHLOROFORM                               | EPA 524.2 REV 4.1       | CIS-1,2-DICHLOROETHYLENE                    |
| EPA 524.2 REV 4.1             | ETHYLBENZENE                             | EPA 524.2 REV 4.1       | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)     |
| EPA 524.2 REV 4.1             | STYRENE                                  | EPA 524.2 REV 4.1       | TETRACHLOROETHENE<br>(PERCHLOROETHENE)      |
| EPA 524.2 REV 4.1             | TOLUENE                                  | EPA 524.2 REV 4.1       | TOTAL TRIHALOMETHANES (TTHMS)               |
| EPA 524.2 REV 4.1             | TRANS-1,2-DICHLOROETHENE                 | EPA 524.2 REV 4.1       | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)      |
| EPA 524.2 REV 4.1             | VINYL CHLORIDE (CHLOROETHENE)            | EPA 524.2 REV 4.1       | XYLENE (TOTAL)                              |
| EPA 552.2 REV 1               | BROMOACETIC ACID                         | EPA 552.2 REV 1         | CHLOROACETIC ACID                           |
| EPA 552.2 REV 1               | DIBROMOACETIC ACID                       | EPA 552.2 REV 1         | DICHLOROACETIC ACID                         |
| EPA 552.2 REV 1               | HALOACETIC ACIDS - FIVE (HAA5)           | EPA 552.2 REV 1         | TRICHLOROACETIC ACID (TCAA)                 |
| READYCULT®                    | ESCHERICHIA COLI                         | READYCULT®              | TOTAL COLIFORMS                             |
| SIMPLATE                      | HETEROTROPHIC PLATE COUNT                | SM 3111 B-2011          | SODIUM                                      |
| SM 4500-F <sup>-</sup> C-2011 | FLUORIDE                                 | SM 9223 COLILERT<br>MPN | ESCHERICHIA COLI                            |
| SM 9223 COLILERT P/A          | ESCHERICHIA COLI                         | SM 9223 COLILERT P/A    | TOTAL COLIFORMS                             |

**McCoy & McCoy Laboratories, A Pace Analytical Services Company - Madisonville**  
 Madisonville, KY  
 Certificate No.: 10448  
 Certificate Expiration Date: 06/30/2020

Phone: (270) 821-7375  
 DCLS Lab ID: 00431

| Method   | Analyte         | Method         | Analyte |
|----------|-----------------|----------------|---------|
| EPA 1623 | CRYPTOSPORIDIUM | SM 2120 B-2011 | COLOR   |

**Certified Laboratories**  
**Virginia Safe Drinking Water and**  
**Virginia Reciprocal Safe Drinking Water Programs**  
**Effective: 07/09/2019**

**Spotsylvania County Laboratory Services**  
 Fredericksburg, VA

Phone: (540) 507-7364  
 DCLS Lab ID: 00437

Certificate No.: 10494

Certificate Expiration Date: 06/30/2020

| Method               | Analyte                   | Method               | Analyte          |
|----------------------|---------------------------|----------------------|------------------|
| SIMPLATE             | HETEROTROPHIC PLATE COUNT | SM 9223 COLILERT     | ESCHERICHIA COLI |
| SM 9223 COLILERT     | TOTAL COLIFORMS           | MPN                  |                  |
| MPN                  |                           | SM 9223 COLILERT P/A | ESCHERICHIA COLI |
| SM 9223 COLILERT P/A | TOTAL COLIFORMS           |                      |                  |

**McCoy & McCoy Laboratories, A Pace Analytical Services Company - Pikeville**  
 Pikeville, KY

Phone: (270) 821-7375  
 DCLS Lab ID: 00438

Certificate No.: 10449

Certificate Expiration Date: 06/30/2020

| Method               | Analyte                   | Method               | Analyte          |
|----------------------|---------------------------|----------------------|------------------|
| SIMPLATE             | HETEROTROPHIC PLATE COUNT | SM 9223 COLILERT     | ESCHERICHIA COLI |
| SM 9223 COLILERT P/A | ESCHERICHIA COLI          | MPN                  |                  |
|                      |                           | SM 9223 COLILERT P/A | TOTAL COLIFORMS  |

**Town of Wytheville Water Treatment Plant**  
 Wytheville, VA

Phone: (276) 223-3322  
 DCLS Lab ID: 00442

Certificate No.: 10420

Certificate Expiration Date: 06/30/2020

| Method               | Analyte          | Method               | Analyte         |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**SAFLAB**  
 Galax, VA

Phone: (276) 233-1790  
 DCLS Lab ID: 00443

Certificate No.: 10495

Certificate Expiration Date: 06/30/2020

| Method               | Analyte          | Method               | Analyte         |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**Fredericktowne Labs**  
 Myersville, MD

Phone: (301) 293-3340  
 DCLS Lab ID: 00444

Certificate No.: 10446

Certificate Expiration Date: 06/30/2020

| Method                | Analyte                   | Method               | Analyte                   |
|-----------------------|---------------------------|----------------------|---------------------------|
| SIMPLATE              | HETEROTROPHIC PLATE COUNT | SM 9215 B-2004       | HETEROTROPHIC PLATE COUNT |
| SM 9221 B-2006        | TOTAL COLIFORMS           | SM 9221 D-1999       | TOTAL COLIFORMS           |
| SM 9221 F (P/A) -2006 | ESCHERICHIA COLI          | SM 9223 COLILERT     | ESCHERICHIA COLI          |
| SM 9223 COLILERT P/A  | ESCHERICHIA COLI          | MPN                  |                           |
|                       |                           | SM 9223 COLILERT P/A | TOTAL COLIFORMS           |



**Certified Laboratories**  
**Virginia Safe Drinking Water and**  
**Virginia Reciprocal Safe Drinking Water Programs**  
**Effective: 07/09/2019**

**Augusta County Service Authority Fishersville Regional Laboratory**  
 Staunton, VA

Phone: (540) 487-0009  
 DCLS Lab ID: 00447

Certificate No.: 10425

Certificate Expiration Date: 06/30/2020

| Method                  | Analyte          | Method                  | Analyte         |
|-------------------------|------------------|-------------------------|-----------------|
| SM 9223 COLILERT<br>MPN | ESCHERICHIA COLI | SM 9223 COLILERT<br>MPN | TOTAL COLIFORMS |
| SM 9223 COLILERT P/A    | ESCHERICHIA COLI | SM 9223 COLILERT P/A    | TOTAL COLIFORMS |

**City of Waynesboro Water Treatment Plant**  
 Waynesboro, VA

Phone: (540) 946-3754  
 DCLS Lab ID: 00451

Certificate No.: 10426

Certificate Expiration Date: 06/30/2020

| Method               | Analyte          | Method               | Analyte         |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**WV American Water - Bluefield**  
 Bluefield, WV

Phone: (304) 327-8913  
 DCLS Lab ID: 00453

Certificate No.: 10461

Certificate Expiration Date: 06/30/2020

| Method               | Analyte          | Method               | Analyte         |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**Curtis Drilling, Inc.**  
 Rockville, VA

Phone: (804) 749-3359  
 DCLS Lab ID: 00454

Certificate No.: 10496

Certificate Expiration Date: 06/30/2020

| Method            | Analyte          | Method            | Analyte         |
|-------------------|------------------|-------------------|-----------------|
| SM 9223 COLISURE® | ESCHERICHIA COLI | SM 9223 COLISURE® | TOTAL COLIFORMS |

**Aqua Pennsylvania**  
 Bryn Mawr, PA

Phone:  
 DCLS Lab ID: 00458

Certificate No.: 10476

Certificate Expiration Date: 06/30/2020

| Method            | Analyte               | Method            | Analyte               |
|-------------------|-----------------------|-------------------|-----------------------|
| ASTM D6919-09     | SODIUM                | EPA 200.8 REV 5.4 | ALUMINUM              |
| EPA 200.8 REV 5.4 | ANTIMONY              | EPA 200.8 REV 5.4 | ARSENIC               |
| EPA 200.8 REV 5.4 | BARIUM                | EPA 200.8 REV 5.4 | BERYLLIUM             |
| EPA 200.8 REV 5.4 | CADMIUM               | EPA 200.8 REV 5.4 | CHROMIUM              |
| EPA 200.8 REV 5.4 | COPPER                | EPA 200.8 REV 5.4 | LEAD                  |
| EPA 200.8 REV 5.4 | MANGANESE             | EPA 200.8 REV 5.4 | NICKEL                |
| EPA 200.8 REV 5.4 | SELENIUM              | EPA 200.8 REV 5.4 | SILVER                |
| EPA 200.8 REV 5.4 | THALLIUM              | EPA 200.8 REV 5.4 | ZINC                  |
| EPA 245.1 REV 3   | MERCURY               | EPA 300.0 REV 2.1 | CHLORIDE              |
| EPA 300.0 REV 2.1 | FLUORIDE              | EPA 300.0 REV 2.1 | NITRATE AS N          |
| EPA 300.0 REV 2.1 | NITRITE AS N          | EPA 300.0 REV 2.1 | SULFATE               |
| EPA 524.3 REV 1.0 | 1,1,1-TRICHLOROETHANE | EPA 524.3 REV 1.0 | 1,1,2-TRICHLOROETHANE |

**Certified Laboratories  
Virginia Safe Drinking Water and  
Virginia Reciprocal Safe Drinking Water Programs**

**Effective: 07/09/2019**

|                                |  |                   |   |
|--------------------------------|--|-------------------|---|
| EPA 524.3 REV 1.0              | 1,1-DICHLOROETHYLENE                       | EPA 524.3 REV 1.0 | 1,2,4-TRICHLOROENZENE                       |
| EPA 524.3 REV 1.0              | 1,2-DICHLOROBENZENE<br>(O-DICHLOROBENZENE) | EPA 524.3 REV 1.0 | 1,2-DICHLOROETHANE (ETHYLENE<br>DICHLORIDE) |
| EPA 524.3 REV 1.0              | 1,2-DICHLOROPROPANE                        | EPA 524.3 REV 1.0 | 1,4-DICHLOROBENZENE<br>(P-DICHLOROBENZENE)  |
| EPA 524.3 REV 1.0              | BENZENE                                    | EPA 524.3 REV 1.0 | BROMODICHLOROMETHANE                        |
| EPA 524.3 REV 1.0              | BROMOFORM                                  | EPA 524.3 REV 1.0 | CARBON TETRACHLORIDE                        |
| EPA 524.3 REV 1.0              | CHLOROBENZENE                              | EPA 524.3 REV 1.0 | CHLORODIBROMOMETHANE                        |
| EPA 524.3 REV 1.0              | CHLOROFORM                                 | EPA 524.3 REV 1.0 | CIS-1,2-DICHLOROETHYLENE                    |
| EPA 524.3 REV 1.0              | ETHYLBENZENE                               | EPA 524.3 REV 1.0 | METHYLENE CHLORIDE<br>(DICHLOROMETHANE)     |
| EPA 524.3 REV 1.0              | STYRENE                                    | EPA 524.3 REV 1.0 | TETRACHLOROETHENE<br>(PERCHLOROETHENE)      |
| EPA 524.3 REV 1.0              | TOLUENE                                    | EPA 524.3 REV 1.0 | TOTAL TRIHALOMETHANES (TTHMS)               |
| EPA 524.3 REV 1.0              | TRANS-1,2-DICHLOROETHENE                   | EPA 524.3 REV 1.0 | TRICHLOROETHENE<br>(TRICHLOROETHYLENE)      |
| EPA 524.3 REV 1.0              | VINYL CHLORIDE (CHLOROETHENE)              | EPA 524.3 REV 1.0 | XYLENE (TOTAL)                              |
| EPA 552.3 REV 1                | BROMOACETIC ACID                           | EPA 552.3 REV 1   | CHLOROACETIC ACID                           |
| EPA 552.3 REV 1                | DIBROMOACETIC ACID                         | EPA 552.3 REV 1   | DICHLOROACETIC ACID                         |
| EPA 552.3 REV 1                | HALOACETIC ACIDS - FIVE (HAA5)             | EPA 552.3 REV 1   | TRICHLOROACETIC ACID (TCAA)                 |
| SM 2320 B-2011                 | ALKALINITY AS CaCO <sub>3</sub>            | SM 2510 B-2011    | CONDUCTIVITY                                |
| SM 2540 C-2011                 | RESIDUE-FILTERABLE (TDS)                   | SM 3111 B-2011    | IRON  |
| SM 4500-CN <sup>-</sup> F-2011 | CYANIDE                                    | SM 5310 C-2011    | TOTAL ORGANIC CARBON (TOC)                  |

**The Town of Lebanon Water - Wastewater Laboratory**

LEBANON, VA

Certificate No.: 10497

Certificate Expiration Date: 06/30/2020

Phone: (276) 889-7206

DCLS Lab ID: 00459

| Method               | Analyte          | Method               | Analyte         |
|----------------------|------------------|----------------------|-----------------|
| SM 9223 COLILERT P/A | ESCHERICHIA COLI | SM 9223 COLILERT P/A | TOTAL COLIFORMS |

**C H Diagnostic and Consulting Service, Inc.**

Berthoud, CO

Certificate No.: 10475

Certificate Expiration Date: 06/30/2020

Phone: (970) 532-2078

DCLS Lab ID: 00461

| Method   | Analyte         | Method | Analyte |
|----------|-----------------|--------|---------|
| EPA 1623 | CRYPTOSPORIDIUM |        |         |

**Pace Analytical National Center for Testing & Innovation**

Mount Juliet, TN

Certificate No.: 10440

Certificate Expiration Date: 06/30/2020

Phone: (615) 773-9755

DCLS Lab ID: 00462

| Method   | Analyte         | Method   | Analyte         |
|----------|-----------------|----------|-----------------|
| EPA 1622 | CRYPTOSPORIDIUM | EPA 1623 | CRYPTOSPORIDIUM |