CALIFORNIA
Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

# CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

## Silver State Analytical Labs - SEM Reno

1135 Financial Boulevard

Reno, NV 89502

Scope of the certificate is limited to the
"Fields of Testing"
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site inspection, proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **2990**

Expiration Date: **7/31/2021**

Effective Date: **8/1/2020**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

**CALIFORNIA STATE**
**ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM**
**Accredited Fields of Testing**

**Silver State Analytical Labs - SEM Reno**

1135 Financial Boulevard
Reno, NV 89502
Phone: 7758572400

**Certificate No. 2990**
**Expiration Date 7/31/2021**

| | | | | Primary Accreditation Body |
|---|---|---|---|---|
| **Field of Testing:** 101 - Microbiology of Drinking Water | | | | |
| 101.010 | 001 | Heterotrophic Bacteria | SM 9215 B | NV |
| 101.040 | 001 | Total Coliform P/A | SM 9222 B | NV |
| 101.040 | 002 | Fecal Coliform P/A | SM 9222 D | NV |
| 101.050 | 001 | Total Coliform P/A | SM 9223 B Colilert | NV |
| 101.050 | 002 | E. coli P/A | SM 9223 B Colilert | NV |
| 101.050 | 003 | Total Coliform (Enumeration) | SM 9223 B Colilert | NV |
| 101.050 | 004 | E. coli (Enumeration) | SM 9223 B Colilert | NV |
| 101.050 | 005 | Total Coliform P/A | SM 9223 B Colilert 18 | NV |
| 101.050 | 006 | E. coli P/A | SM 9223 B Colilert 18 | NV |
| 101.050 | 007 | Total Coliform (Enumeration) | SM 9223 B Colilert 18 | NV |
| 101.050 | 008 | E. coli (Enumeration) | SM 9223 B Colilert 18 | NV |
| **Field of Testing:** 102 - Inorganic Chemistry of Drinking Water | | | | |
| 102.026 | 001 | Calcium | EPA 200.7 | NV |
| 102.026 | 002 | Magnesium | EPA 200.7 | NV |
| 102.026 | 003 | Potassium | EPA 200.7 | NV |
| 102.026 | 004 | Silica | EPA 200.7 | NV |
| 102.026 | 005 | Sodium | EPA 200.7 | NV |
| 102.026 | 006 | Hardness (Calculation) | EPA 200.7 | NV |
| 102.030 | 001 | Bromide | EPA 300.0 | NV |
| 102.030 | 003 | Chloride | EPA 300.0 | NV |
| 102.030 | 005 | Fluoride | EPA 300.0 | NV |
| 102.030 | 006 | Nitrate (as N) | EPA 300.0 | NV |
| 102.030 | 007 | Nitrite (as N) | EPA 300.0 | NV |
| 102.030 | 008 | Phosphate,Ortho (as P) | EPA 300.0 | NV |
| 102.030 | 009 | Sulfate (as SO4) | EPA 300.0 | NV |
| 102.045 | 001 | Perchlorate | EPA 314.0 | NV |
| 102.070 | 001 | Phosphate,Ortho (as P) | EPA 365.1 | NV |
| 102.095 | 001 | Turbidity | SM 2130 B-2001 | NV |
| 102.100 | 001 | Alkalinity | SM 2320 B-1997 | NV |
| 102.120 | 001 | Hardness (Calculation) | SM 2340 B-1997 | NV |
| 102.130 | 001 | Specific Conductance | SM 2510 B-1997 | NV |
| 102.140 | 001 | Residue, Filterable TDS | SM 2540 C-1997 | NV |
| 102.175 | 001 | Chlorine, Free | SM 4500-Cl G-2000 | NV |

As of 8/1/2020 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

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| 102.175 | 002 | Chlorine, Total Residual | SM 4500-Cl G-2000 | NV |
| 102.190 | 001 | Cyanide, Total | SM 4500-CN E-1999 | NV |
| 102.192 | 001 | Cyanide, Amenable | SM 4500-CN G-1999 | NV |
| 102.203 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2000 | NV |
| 102.270 | 001 | Surfactants | SM 5540 C-2000 | NV |
| **Field of Testing:** 103 - Toxic Chemical Elements of Drinking Water | | | | |
| 103.130 | 001 | Aluminum | EPA 200.7 | NV |
| 103.130 | 009 | Iron | EPA 200.7 | NV |
| 103.130 | 018 | Boron | EPA 200.7 | NV |
| 103.140 | 002 | Antimony | EPA 200.8 | NV |
| 103.140 | 003 | Arsenic | EPA 200.8 | NV |
| 103.140 | 004 | Barium | EPA 200.8 | NV |
| 103.140 | 005 | Beryllium | EPA 200.8 | NV |
| 103.140 | 006 | Cadmium | EPA 200.8 | NV |
| 103.140 | 007 | Chromium | EPA 200.8 | NV |
| 103.140 | 008 | Copper | EPA 200.8 | NV |
| 103.140 | 009 | Lead | EPA 200.8 | NV |
| 103.140 | 010 | Manganese | EPA 200.8 | NV |
| 103.140 | 012 | Nickel | EPA 200.8 | NV |
| 103.140 | 013 | Selenium | EPA 200.8 | NV |
| 103.140 | 014 | Silver | EPA 200.8 | NV |
| 103.140 | 015 | Thallium | EPA 200.8 | NV |
| 103.140 | 016 | Zinc | EPA 200.8 | NV |
| 103.140 | 018 | Vanadium | EPA 200.8 | NV |
| 103.160 | 001 | Mercury | EPA 245.1 | NV |
| **Field of Testing:** 106 - Radionuclides in Drinking Water | | | | |
| 106.092 | 001 | Uranium | EPA 200.8 | NV |
| **Field of Testing:** 107 - Microbiological Methods for Non-Potable Water and Sewage Sludge | | | | |
| 107.001 | 001 | Total Coliform (Enumeration) | SM 9221 B,C-2006 | NV |
| 107.001 | 002 | Fecal Coliform (Enumeration) | SM 9221 C,E-2006 | NV |
| 107.001 | 003 | E. coli (Enumeration) | SM 9221 C,F-2006 | NV |
| 107.003 | 001 | Total Coliform (Enumeration) | SM 9222 B-2006 | NV |
| 107.003 | 002 | Fecal Coliform (Enumeration) | SM 9222 D-2006 | NV |
| 107.007 | 002 | Fecal Streptococci | SM 9230 B-2007 | NV |
| 107.011 | 001 | Enterococci | SM 9230 D-2007 | NV |
| 107.013 | 001 | E. coli (Enumeration) | Colilert | NV |
| 107.015 | 001 | E. coli (Enumeration) | Colilert 18 | NV |
| 107.017 | 001 | Enterococci | Enterolert | NV |
| **Field of Testing:** 108 - Inorganic Constituents in Non-Potable Water | | | | |
| 108.013 | 001 | Calcium | EPA 200.7 (1994 Rev. 4.4) | NV |
| 108.013 | 002 | Magnesium | EPA 200.7 (1994 Rev. 4.4) | NV |

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| 108.013 | 004 | Potassium | EPA 200.7 (1994 Rev. 4.4) | NV |
| 108.013 | 005 | Silica, Dissolved | EPA 200.7 (1994 Rev. 4.4) | NV |
| 108.013 | 006 | Sodium | EPA 200.7 (1994 Rev. 4.4) | NV |
| 108.017 | 001 | Bromide | EPA 300.0 (1993 Rev. 2.1) | NV |
| 108.017 | 002 | Chloride | EPA 300.0 (1993 Rev. 2.1) | NV |
| 108.017 | 003 | Fluoride | EPA 300.0 (1993 Rev. 2.1) | NV |
| 108.017 | 004 | Nitrate (as N) | EPA 300.0 (1993 Rev. 2.1) | NV |
| 108.017 | 005 | Nitrate-Nitrite (as N) | EPA 300.0 (1993 Rev. 2.1) | NV |
| 108.017 | 006 | Nitrite (as N) | EPA 300.0 (1993 Rev. 2.1) | NV |
| 108.017 | 007 | Phosphate,Ortho (as P) | EPA 300.0 (1993 Rev. 2.1) | NV |
| 108.017 | 008 | Sulfate (as SO4) | EPA 300.0 (1993 Rev. 2.1) | NV |
| 108.035 | 001 | Phosphate,Ortho (as P) | EPA 365.1 (1993 Rev. 2.0) | NV |
| 108.035 | 002 | Phosphorus,Total | EPA 365.1 (1993 Rev. 2.0) | NV |
| 108.037 | 001 | Phosphate,Ortho (as P) | EPA 365.3 (1978) | NV |
| 108.037 | 002 | Phosphorus,Total | EPA 365.3 (1978) | NV |
| 108.053 | 002 | Oil & Grease Total | EPA 1664 B | NV |
| 108.055 | 001 | Color | SM 2120 B-2011 | NV |
| 108.059 | 001 | Turbidity | SM 2130 B-2011 | NV |
| 108.061 | 001 | Acidity | SM 2310 B-2011 | NV |
| 108.063 | 001 | Alkalinity | SM 2320 B-2011 | NV |
| 108.065 | 001 | Hardness (Calculation) | SM 2340 B-2011 | NV |
| 108.069 | 001 | Specific Conductance | SM 2510 B-2011 | NV |
| 108.071 | 001 | Residue, Total | SM 2540 B-2011 | NV |
| 108.073 | 001 | Residue, Filterable TDS | SM 2540 C-2011 | NV |
| 108.075 | 001 | Residue, Non-filterable TSS | SM 2540 D-2011 | NV |
| 108.077 | 001 | Residue, Volatile | SM 2540 E-2011 | NV |
| 108.079 | 001 | Residue, Settleable | SM 2540 F-2011 | NV |
| 108.080 | 001 | Temperature | SM 2550 B-2010 | NV |
| 108.114 | 001 | Chlorine, Total Residual | SM 4500-Cl G-2011 | NV |
| 108.114 | 002 | Chlorine, Free | SM 4500-Cl G-2011 | NV |
| 108.125 | 001 | Cyanide, Total | SM 4500-CN E-2011 | NV |
| 108.129 | 001 | Cyanide, Available | SM 4500-CN G-2011 | NV |
| 108.137 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2011 | NV |
| 108.139 | 001 | Ammonia (as N) | SM 4500-NH3 C-2011 | NV |
| 108.139 | 002 | Kjeldahl Nitrogen,Total (as N) | SM 4500-NH3 C-2011 | NV |
| 108.140 | 001 | Ammonia (as N) | SM 4500-NH3 D-2011 | NV |
| 108.140 | 002 | Kjeldahl Nitrogen,Total (as N) | SM 4500-NH3 D-2011 | NV |
| 108.151 | 001 | Kjeldahl Nitrogen,Total (as N) | SM 4500-Norg D-2011 | NV |
| 108.163 | 001 | Oxygen, Dissolved | SM 4500-O B-2011 | NV |
| 108.165 | 001 | Oxygen, Dissolved | SM 4500-O C-2011 | NV |
| 108.173 | 001 | Oxygen, Dissolved | SM 4500-O G-2011 | NV |
| 108.203 | 001 | Sulfide (as S) | SM 4500-S F-2011 | NV |

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| 108.207 | 001 | Biochemical Oxygen Demand | SM 5210 B-2011 | NV |
| 108.207 | 002 | Carbonaceous BOD | SM 5210 B-2011 | NV |
| 108.225 | 001 | Surfactants | SM 5540 C-2011 | NV |
| 108.325 | 001 | Chemical Oxygen Demand | Hach 8000 | NV |
| **Field of Testing:** 109 - Metals and Trace Elements in Non-Potable Water | | | | |
| 109.623 | 001 | Aluminum | EPA 200.7 (1994 Rev. 4.4) | NV |
| 109.623 | 006 | Boron | EPA 200.7 (1994 Rev. 4.4) | NV |
| 109.623 | 011 | Iron | EPA 200.7 (1994 Rev. 4.4) | NV |
| 109.623 | 019 | Tin | EPA 200.7 (1994 Rev. 4.4) | NV |
| 109.623 | 020 | Titanium | EPA 200.7 (1994 Rev. 4.4) | NV |
| 109.625 | 002 | Antimony | EPA 200.8 (1994 Rev. 5.4) | NV |
| 109.625 | 003 | Arsenic | EPA 200.8 (1994 Rev. 5.4) | NV |
| 109.625 | 004 | Barium | EPA 200.8 (1994 Rev. 5.4) | NV |
| 109.625 | 005 | Beryllium | EPA 200.8 (1994 Rev. 5.4) | NV |
| 109.625 | 007 | Cadmium | EPA 200.8 (1994 Rev. 5.4) | NV |
| 109.625 | 008 | Chromium | EPA 200.8 (1994 Rev. 5.4) | NV |
| 109.625 | 009 | Cobalt | EPA 200.8 (1994 Rev. 5.4) | NV |
| 109.625 | 010 | Copper | EPA 200.8 (1994 Rev. 5.4) | NV |
| 109.625 | 013 | Lead | EPA 200.8 (1994 Rev. 5.4) | NV |
| 109.625 | 014 | Manganese | EPA 200.8 (1994 Rev. 5.4) | NV |
| 109.625 | 015 | Molybdenum | EPA 200.8 (1994 Rev. 5.4) | NV |
| 109.625 | 016 | Nickel | EPA 200.8 (1994 Rev. 5.4) | NV |
| 109.625 | 017 | Selenium | EPA 200.8 (1994 Rev. 5.4) | NV |
| 109.625 | 018 | Silver | EPA 200.8 (1994 Rev. 5.4) | NV |
| 109.625 | 019 | Thallium | EPA 200.8 (1994 Rev. 5.4) | NV |
| 109.625 | 022 | Vanadium | EPA 200.8 (1994 Rev. 5.4) | NV |
| 109.625 | 023 | Zinc | EPA 200.8 (1994 Rev. 5.4) | NV |
| 109.635 | 001 | Mercury | EPA 245.1 (1994 Rev. 3.0) | NV |
| 109.685 | 002 | Chromium (VI) | SM 3500-Cr B-2011 | NV |
| 109.693 | 001 | Iron | SM 3500-Fe B-2011 | NV |
| **Field of Testing:** 114 - Inorganic Chemistry of Hazardous Waste | | | | |
| 114.020 | 001 | Antimony | EPA 6020 | NV |
| 114.020 | 002 | Arsenic | EPA 6020 | NV |
| 114.020 | 003 | Barium | EPA 6020 | NV |
| 114.020 | 004 | Beryllium | EPA 6020 | NV |
| 114.020 | 005 | Cadmium | EPA 6020 | NV |
| 114.020 | 006 | Chromium | EPA 6020 | NV |
| 114.020 | 007 | Cobalt | EPA 6020 | NV |
| 114.020 | 008 | Copper | EPA 6020 | NV |
| 114.020 | 009 | Lead | EPA 6020 | NV |
| 114.020 | 010 | Molybdenum | EPA 6020 | NV |
| 114.020 | 011 | Nickel | EPA 6020 | NV |

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| 114.020 | 012 | Selenium | EPA 6020 | NV |
| 114.020 | 013 | Silver | EPA 6020 | NV |
| 114.020 | 014 | Thallium | EPA 6020 | NV |
| 114.020 | 015 | Vanadium | EPA 6020 | NV |
| 114.020 | 016 | Zinc | EPA 6020 | NV |
| 114.103 | 001 | Chromium (VI) | EPA 7196 A | NV |
| 114.140 | 001 | Mercury | EPA 7470 A | NV |
| 114.141 | 001 | Mercury | EPA 7471 A | NV |
| 114.222 | 001 | Cyanide, Total | EPA 9014 | NV |
| 114.241 | 001 | Corrosivity - pH Determination | EPA 9045 C | NV |
| **Field of Testing:** 115 - Extraction Test of Hazardous Waste | | | | |
| 115.020 | 001 | Toxicity Characteristic Leaching Procedure (TCLP) | EPA 1311 | NV |
| 115.021 | 001 | TCLP Inorganics | EPA 1311 | NV |
| **Field of Testing:** 120 - Physical Properties of Hazardous Waste | | | | |
| 120.010 | 001 | Ignitability | EPA 1010 | NV |
| 120.022 | 001 | Ignitability | EPA 1030 | NV |
| 120.080 | 001 | Corrosivity - pH Determination | EPA 9045 C | NV |
| **Field of Testing:** 126 - Microbiological Methods for Ambient Water | | | | |
| 126.003 | 001 | Total Coliform (Enumeration) | SM 9221 B,C-2006 | NV |
| 126.003 | 002 | Fecal Coliform (Enumeration) | SM 9221 C,E-2006 | NV |
| 126.003 | 003 | E. coli (Enumeration) | SM 9221 C,F-2006 | NV |
| 126.005 | 001 | Total Coliform (Enumeration) | SM 9222 B-2006 | NV |
| 126.005 | 003 | Fecal Coliform (Enumeration) | SM 9222 D-2006 | NV |
| 126.009 | 001 | Fecal Streptococci | SM 9230 B-2007 | NV |
| 126.013 | 001 | Enterococci | SM 9230 D-2007 | NV |
| 126.015 | 001 | E. coli (Enumeration) | Colilert | NV |
| 126.017 | 001 | E. coli (Enumeration) | Colilert 18 | NV |
| 126.019 | 001 | Enterococci | Enterolert | NV |