



STATE WATER RESOURCES CONTROL BOARD  
REGIONAL WATER QUALITY CONTROL BOARDS

**Interim**

CALIFORNIA STATE



ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

**CERTIFICATE OF ENVIRONMENTAL ACCREDITATION**

Is hereby granted to

**Basic Laboratory, Inc.**

2218 Railroad Avenue

Redding, CA 96001

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.: **1677**

Expiration Date: **12/31/2018**

Effective Date: **1/1/2018**

Sacramento, California  
subject to forfeiture or revocation

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Christine Sotelo, Chief  
Environmental Laboratory Accreditation Program



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



**Basic Laboratory, Inc.**

2218 Railroad Avenue  
Redding, CA 96001  
Phone: (530) 243-7234

**Certificate No. 1677  
Expiration Date 12/31/2018  
INTERIM**

**Field of Testing: 101 - Microbiology of Drinking Water**

101.010	001	Heterotrophic Bacteria	SM9215B
101.020	001	Total Coliform P/A	SM9221B
101.020	002	Fecal Coliform P/A	SM 9221 B,E
101.020	004	Total Coliform (Enumeration)	SM9221B,C
101.020	005	Fecal Coliform (Enumeration)	SM 9221 B,E
101.050	001	Total Coliform P/A	SM9223B (Colilert)
101.050	002	E. coli P/A	SM9223B (Colilert)
101.050	003	Total Coliform (Enumeration)	SM9223B (Colilert)
101.050	004	E. coli (Enumeration)	SM9223B (Colilert)
101.050	005	Total Coliform P/A	SM9223B (Colilert 18)
101.050	006	E. coli P/A	SM9223B (Colilert 18)
101.050	007	Total Coliform (Enumeration)	SM9223B (Colilert 18)
101.050	008	E. coli (Enumeration)	SM9223B (Colilert 18)
101.050	009	Total Coliform P/A	SM9223B (Colisure)
101.050	010	E. coli P/A	SM9223B (Colisure)

**Field of Testing: 102 - Inorganic Chemistry of Drinking Water**

102.020	001	Turbidity	EPA 180.1
102.026	001	Calcium	EPA 200.7
102.026	002	Magnesium	EPA 200.7
102.026	003	Potassium	EPA 200.7
102.026	004	Silica	EPA 200.7
102.026	005	Sodium	EPA 200.7
102.026	006	Hardness (calculation)	EPA 200.7
102.030	001	Bromide	EPA 300.0
102.030	003	Chloride	EPA 300.0
102.030	005	Fluoride	EPA 300.0
102.030	006	Nitrate (as N)	EPA 300.0
102.030	007	Nitrite (as N)	EPA 300.0
102.030	009	Sulfate	EPA 300.0
102.050	001	Cyanide	EPA 335.4
102.060	001	Nitrate (as N) (Calculation)	EPA 353.2
102.061	001	Nitrite	EPA 353.2
102.095	001	Turbidity	SM2130B-2001
102.100	001	Alkalinity	SM2320B-1997
102.120	001	Hardness (calculation)	SM2340B-1997
102.121	001	Hardness	SM2340C-1997
102.130	001	Conductivity	SM2510B-1997
102.140	001	Residue, Filterable TDS	SM2540C-1997

As of 1/8/2018, this list supersedes all previous lists for this certificate number.  
Customers: Please verify the current accreditation standing with the State.

102.175	001	Chlorine, Free	SM4500-Cl G-2000
102.175	002	Chlorine, Total Residual	SM4500-Cl G-2000
102.190	001	Cyanide, Total	SM4500-CN E
102.203	001	Hydrogen Ion (pH)	SM4500-H+ B-2000
102.220	001	Nitrite (as N)	SM4500-NO2- B-2000
102.240	001	Phosphate, Ortho (as P)	SM4500-P E-1999
102.262	001	Total Organic Carbon TOC	SM5310C-2000
102.263	001	Dissolved Organic Carbon (DOC)	SM5310C-2000
102.270	001	Surfactants	SM5540C-2000
102.280	001	UV254	SM5910B-2011

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**Field of Testing:** 103 - Toxic Chemical Elements of Drinking Water

103.130	001	Aluminum	EPA 200.7
103.130	003	Barium	EPA 200.7
103.130	004	Beryllium	EPA 200.7
103.130	005	Cadmium	EPA 200.7
103.130	007	Chromium	EPA 200.7
103.130	008	Copper	EPA 200.7
103.130	009	Iron	EPA 200.7
103.130	011	Manganese	EPA 200.7
103.130	012	Nickel	EPA 200.7
103.130	015	Silver	EPA 200.7
103.130	017	Zinc	EPA 200.7
103.130	018	Boron	EPA 200.7
103.140	001	Aluminum	EPA 200.8
103.140	002	Antimony	EPA 200.8
103.140	003	Arsenic	EPA 200.8
103.140	004	Barium	EPA 200.8
103.140	005	Beryllium	EPA 200.8
103.140	006	Cadmium	EPA 200.8
103.140	007	Chromium	EPA 200.8
103.140	008	Copper	EPA 200.8
103.140	009	Lead	EPA 200.8
103.140	010	Manganese	EPA 200.8
103.140	011	Mercury	EPA 200.8
103.140	012	Nickel	EPA 200.8
103.140	013	Selenium	EPA 200.8
103.140	014	Silver	EPA 200.8
103.140	015	Thallium	EPA 200.8
103.140	016	Zinc	EPA 200.8
103.140	017	Boron	EPA 200.8
103.140	018	Vanadium	EPA 200.8
103.160	001	Mercury	EPA 245.1
103.161	001	Mercury	EPA 245.2
103.310	001	Chromium (VI)	EPA 218.6
103.311	001	Chromium (VI)	EPA 218.7

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**Field of Testing:** 104 - Volatile Organic Chemistry of Drinking Water

104.030	001	1,2-Dibromoethane	EPA 504.1
104.030	002	1,2-Dibromo-3-chloropropane	EPA 504.1
104.030	003	1,2,3-Trichloropropane	EPA 504.1
104.035	001	1,2,3-Trichloropropane	SRL 524M-TCP
104.040	000	Volatile Organic Compounds	EPA 524.2
104.045	000	Trihalomethanes, Total	EPA 524.2
104.050	000	Gasoline Additives	EPA 524.2

**Field of Testing: 105 - Semi-volatile Organic Chemistry of Drinking Water**

105.201	001	Haloacetic Acids (HAA5)	EPA 552.3
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**Field of Testing: 107 - Microbiology of Wastewater**

107.010	001	Heterotrophic Bacteria	SM9215B
107.020	002	Total Coliform (Enumeration)	SM9221B-2006
107.030	002	Total Coliform with Chlorine Present	SM9221B,C-2006
107.040	002	Fecal Coliform (Enumeration)	SM9221C,E-2006
107.050	002	Fecal Coliform with Chlorine Present	SM9221C,E-2006
107.242	001	Enterococci	Enterolert
107.245	001	E. coli (Enumeration)	SM9223B (Colilert 18)
107.245	002	E. coli (Enumeration)	SM9223B (Colilert)

**Field of Testing: 108 - Inorganic Chemistry of Wastewater**

108.110	001	Turbidity	EPA 180.1
108.112	001	Boron	EPA 200.7
108.112	002	Calcium	EPA 200.7
108.112	003	Hardness (calculation)	EPA 200.7
108.112	004	Magnesium	EPA 200.7
108.112	005	Potassium	EPA 200.7
108.112	006	Silica, Dissolved	EPA 200.7
108.112	007	Sodium	EPA 200.7
108.113	001	Boron	EPA 200.8
108.113	002	Calcium	EPA 200.8
108.113	003	Magnesium	EPA 200.8
108.113	004	Potassium	EPA 200.8
108.113	006	Sodium	EPA 200.8
108.120	001	Bromide	EPA 300.0
108.120	002	Chloride	EPA 300.0
108.120	003	Fluoride	EPA 300.0
108.120	008	Sulfate	EPA 300.0
108.120	012	Nitrate (as N)	EPA 300.0
108.120	013	Nitrate-Nitrite (as N)	EPA 300.0
108.120	014	Nitrite (as N)	EPA 300.0
108.183	001	Cyanide, Total	EPA 335.4
108.209	001	Ammonia (as N)	EPA 350.1
108.211	002	Kjeldahl Nitrogen, Total (as N)	EPA 351.2
108.232	003	Nitrate-Nitrite (as N)	EPA 353.2
108.232	004	Nitrite (as N)	EPA 353.2
108.360	001	Phenols, Total	EPA 420.1
108.381	001	Oil and Grease	EPA 1664A

108.381	002	Oil & Grease Total	EPA 1664 Rev. B
108.385	001	Color	SM2120B-2001
108.390	001	Turbidity	SM2130B-2001
108.400	001	Acidity	SM2310B-1997
108.410	001	Alkalinity	SM2320B-1997
108.420	001	Hardness (calculation)	SM2340B-1997
108.421	001	Hardness	SM2340C-1997
108.430	001	Conductivity	SM2510B-1997
108.439	001	Residue, Volatile	SM2540E-1997
108.440	001	Residue, Total	SM2540B-1997
108.441	001	Residue, Filterable TDS	SM2540C-1997
108.442	001	Residue, Non-filterable TSS	SM2540D-1997
108.443	001	Residue, Settleable	SM2540F-1997
108.444	001	Temperature	SM2550B-2000
108.465	001	Chlorine, Total Residual	SM4500-CI G-2000
108.465	002	Chlorine, Free	SM4500-CI G-2000
108.470	001	Cyanide, Total	SM4500-CN B or C-1999
108.472	001	Cyanide, Total	SM4500-CN E-1999
108.490	001	Hydrogen Ion (pH)	SM4500-H+ B-2000
108.514	001	Nitrite (as N)	SM4500-NO2- B-2000
108.532	001	Oxygen, dissolved	SM4500-O C-2001
108.536	001	Oxygen, dissolved	SM4500-O G-2001
108.540	001	Phosphate, Ortho (as P)	SM4500-P E-1999
108.541	001	Phosphorus, Total	SM4500-P E-1999
108.560	001	Sulfite	SM4500-SO3 B-2000
108.584	001	Sulfide (as S)	SM4500-S= D-2000
108.592	001	Biochemical Oxygen Demand	SM5210B-2001
108.592	002	Carbonaceous BOD	SM5210B-2001
108.595	001	Chemical Oxygen Demand	SM5220D-1997
108.597	001	Organic Carbon-Total (TOC)	SM5310C-2000
108.605	001	Surfactants	SM5540C-2000
108.660	001	Chemical Oxygen Demand	HACH8000

**Field of Testing: 109 - Toxic Chemical Elements of Wastewater**

109.010	001	Aluminum	EPA 200.7
109.010	002	Antimony	EPA 200.7
109.010	003	Arsenic	EPA 200.7
109.010	004	Barium	EPA 200.7
109.010	005	Beryllium	EPA 200.7
109.010	006	Boron	EPA 200.7
109.010	007	Cadmium	EPA 200.7
109.010	009	Chromium	EPA 200.7
109.010	010	Cobalt	EPA 200.7
109.010	011	Copper	EPA 200.7
109.010	012	Iron	EPA 200.7
109.010	013	Lead	EPA 200.7
109.010	015	Manganese	EPA 200.7
109.010	016	Molybdenum	EPA 200.7

109.010	017	Nickel	EPA 200.7
109.010	019	Selenium	EPA 200.7
109.010	021	Silver	EPA 200.7
109.010	023	Thallium	EPA 200.7
109.010	024	Tin	EPA 200.7
109.010	025	Titanium	EPA 200.7
109.010	026	Vanadium	EPA 200.7
109.010	027	Zinc	EPA 200.7
109.020	001	Aluminum	EPA 200.8
109.020	002	Antimony	EPA 200.8
109.020	003	Arsenic	EPA 200.8
109.020	004	Barium	EPA 200.8
109.020	005	Beryllium	EPA 200.8
109.020	006	Cadmium	EPA 200.8
109.020	007	Chromium	EPA 200.8
109.020	008	Cobalt	EPA 200.8
109.020	009	Copper	EPA 200.8
109.020	010	Lead	EPA 200.8
109.020	011	Manganese	EPA 200.8
109.020	012	Molybdenum	EPA 200.8
109.020	013	Nickel	EPA 200.8
109.020	014	Selenium	EPA 200.8
109.020	015	Silver	EPA 200.8
109.020	016	Thallium	EPA 200.8
109.020	017	Vanadium	EPA 200.8
109.020	018	Zinc	EPA 200.8
109.020	021	Iron	EPA 200.8
109.020	022	Tin	EPA 200.8
109.020	023	Titanium	EPA 200.8
109.104	001	Chromium (VI)	EPA 218.6
109.191	001	Mercury	EPA 245.2
109.361	001	Mercury	EPA 1631E
109.445	002	Chromium (VI)	SM3500-Cr B-2009

**Field of Testing:** 110 - Volatile Organic Chemistry of Wastewater

110.040	000	Purgeable Organic Compounds	EPA 624
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**Field of Testing:** 111 - Semi-volatile Organic Chemistry of Wastewater

111.100	000	Base/Neutral & Acid Organics	EPA 625
111.170	000	Organochlorine Pesticides and PCBs	EPA 608

**Field of Testing:** 113 - Whole Effluent Toxicity of Wastewater

113.010	003A	Rainbow trout (O. mykiss)	EPA 600/4-90/027F, Static	Interim
113.010	003B	Rainbow trout (O. mykiss)	EPA 600/4-90/027F, Static Renewal	Interim
113.022	003A	Rainbow trout (O. mykiss)	EPA 2019 (EPA-821-R-02-012), Static	Interim
113.022	003B	Rainbow trout (O. mykiss)	EPA 2019 (EPA-821-R-02-012), Static Renewal	Interim

**Field of Testing:** 114 - Inorganic Chemistry of Hazardous Waste

114.010	001	Antimony	EPA 6010B
114.010	002	Arsenic	EPA 6010B

As of 1/8/2018, this list supersedes all previous lists for this certificate number.  
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114.010 003	Barium	EPA 6010B
114.010 004	Beryllium	EPA 6010B
114.010 005	Cadmium	EPA 6010B
114.010 006	Chromium	EPA 6010B
114.010 007	Cobalt	EPA 6010B
114.010 008	Copper	EPA 6010B
114.010 009	Lead	EPA 6010B
114.010 010	Molybdenum	EPA 6010B
114.010 011	Nickel	EPA 6010B
114.010 012	Selenium	EPA 6010B
114.010 013	Silver	EPA 6010B
114.010 014	Thallium	EPA 6010B
114.010 015	Vanadium	EPA 6010B
114.010 016	Zinc	EPA 6010B
114.020 001	Antimony	EPA 6020
114.020 002	Arsenic	EPA 6020
114.020 003	Barium	EPA 6020
114.020 004	Beryllium	EPA 6020
114.020 005	Cadmium	EPA 6020
114.020 006	Chromium	EPA 6020
114.020 007	Cobalt	EPA 6020
114.020 008	Copper	EPA 6020
114.020 009	Lead	EPA 6020
114.020 010	Molybdenum	EPA 6020
114.020 011	Nickel	EPA 6020
114.020 012	Selenium	EPA 6020
114.020 013	Silver	EPA 6020
114.020 014	Thallium	EPA 6020
114.020 015	Vanadium	EPA 6020
114.020 016	Zinc	EPA 6020
114.081 001	Cadmium	EPA 7131A
114.103 001	Chromium (VI)	EPA 7196A
114.140 001	Mercury	EPA 7470A
114.141 001	Mercury	EPA 7471A
114.222 001	Cyanide	EPA 9014
114.240 001	Corrosivity - pH Determination	EPA 9040B
114.241 001	Corrosivity - pH Determination	EPA 9045C

**Field of Testing:** 115 - Extraction Test of Hazardous Waste

115.020 001	Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311
115.021 001	TCLP Inorganics	EPA 1311
115.022 001	TCLP Extractables	EPA 1311
115.030 001	Waste Extraction Test (WET)	CCR Chapter 11, Article 5, Appendix II

**Field of Testing:** 116 - Volatile Organic Chemistry of Hazardous Waste

116.080 000	Volatile Organic Compounds	EPA 8260B
116.080 120	Oxygenates	EPA 8260B
116.100 001	Total Petroleum Hydrocarbons - Gasoline	LUFT GC/MS

116.100 010 BTEX and MTBE LUFT GC/MS

**Field of Testing:** 117 - Semi-volatile Organic Chemistry of Hazardous Waste

117.010	001	Diesel-range Total Petroleum Hydrocarbons	EPA 8015B
117.016	001	Diesel-range Total Petroleum Hydrocarbons	LUFT
117.110	000	Extractable Organics	EPA 8270C
117.210	000	Organochlorine Pesticides	EPA 8081A
117.220	000	PCBs	EPA 8082

**Field of Testing:** 126 - Microbiology of Recreational Water

126.010	001	Total Coliform (Enumeration)	SM9221B,C-2006
126.030	001	Fecal Coliform (Enumeration)	SM9221B,E-2006
126.050	001	Total Coliform (Enumeration)	SM9223B (Colilert/Quanti-Tray)
126.050	002	E. coli (Enumeration)	SM9223B (Colilert/Quanti-Tray)
126.080	001	Enterococci	Enterolert