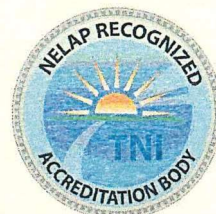




Oregon

Environmental Laboratory Accreditation Program



NELAP Recognized

Enthalpy Analytical, LLC - Orange 4038

931 W. Barkley Ave
Orange, CA 92868

IS GRANTED APPROVAL BY ORELAP UNDER THE 2016 TNI STANDARDS, TO PERFORM
ANALYSES ON ENVIRONMENTAL SAMPLES IN MATRICES AS LISTED BELOW :

Air	Drinking Water	Non-Potable Water	Solids & Chem. Waste	Tissue
Chemistry	Chemistry Microbiology	Chemistry Microbiology	Chemistry	

AND AS RECORDED IN THE LIST OF APPROVED ANALYTES, METHODS, ANALYTICAL TECHNIQUES, AND
FIELDS OF TESTING ISSUED CONCURRENTLY WITH THIS CERTIFICATE AND REVISED AS NECESSARY.

ACCREDITED STATUS DEPENDS ON SUCCESSFUL ONGOING PARTICIPATION IN THE PROGRAM AND
CONTINUED COMPLIANCE WITH THE STANDARDS.

CUSTOMERS ARE URGED TO VERIFY THE LABORATORY'S CURRENT ACCREDITATION STATUS IN
OREGON.

Oregon State Public Health Laboratory
ORELAP Program Manager
7202 NE Evergreen Parkway, Suite 100
Hillsboro, OR 97124

EFFECTIVE DATE : 01/30/2024

EXPIRATION DATE : 01/29/2025

Certificate No : 4038 - 015





Oregon

Environmental Laboratory Accreditation Program

ORELAP Fields of Accreditation



Enthalpy Analytical, LLC - Orange
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EPA CODE: CA00054
Certificate: 4038 - 015

Issue Date: 1/30/2024 Expiration Date: 1/29/2025

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MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Air	ASTM D1946-90			2006		30024465	Reformed Gas by Gas Chromatography
		4747	Ethane				
		4752	Ethene				
		4926	Methane				
Air	EPA TO-15			1999		10248803	VOCs collected in Canisters by GC/MS
		5160	1,1,1-Trichloroethane				
		5110	1,1,2,2-Tetrachloroethane				
		5185	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)				
		5165	1,1,2-Trichloroethane				
		4630	1,1-Dichloroethane				
		4640	1,1-Dichloroethylene				
		5155	1,2,4-Trichlorobenzene				
		5210	1,2,4-Trimethylbenzene				
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)				
		4695	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon-114)				
		4610	1,2-Dichlorobenzene				
		4635	1,2-Dichloroethane (Ethylene dichloride)				
		4655	1,2-Dichloropropane				
		5215	1,3,5-Trimethylbenzene				
		9318	1,3-Butadiene				
		4615	1,3-Dichlorobenzene				
		4620	1,4-Dichlorobenzene				
		4735	1,4-Dioxane (1,4-Diethyleneoxide)				
		4836	1-Propene (Propylene)				
		4410	2-Butanone (Methyl ethyl ketone, MEK)				
		4860	2-Hexanone (MBK)				
		4942	2-methylpropane (Isobutane)				
		4542	4-Ethyltoluene				
		4995	4-Methyl-2-pentanone (MIBK)				
		4315	Acetone				
		4375	Benzene				
		5635	Benzyl chloride				
		4395	Bromodichloromethane				



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MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Air	EPA TO-15				1999	10248803	VOCs collected in Canisters by GC/MS
		4400	Bromoform				
		4450	Carbon disulfide				
		4455	Carbon tetrachloride				
		4475	Chlorobenzene				
		4575	Chlorodibromomethane				
		4485	Chloroethane (Ethyl chloride)				
		4505	Chloroform				
		4705	cis & trans-1,2-Dichloroethene				
		4645	cis-1,2-Dichloroethylene				
		4680	cis-1,3-Dichloropropene				
		4555	Cyclohexane				
		9375	Di-isopropylether (DIPE)				
		4625	Dichlorodifluoromethane (Freon-12)				
		4750	Ethanol				
		4755	Ethyl acetate				
		4770	Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)				
		4765	Ethylbenzene				
		4835	Hexachlorobutadiene				
		4895	Isopropyl alcohol (2-Propanol, Isopropanol)				
		5240	m+p-xylene				
		4950	Methyl bromide (Bromomethane)				
		4960	Methyl chloride (Chloromethane)				
		5000	Methyl tert-butyl ether (MTBE)				
		4975	Methylene chloride (Dichloromethane)				
		4825	n-Heptane				
		4855	n-Hexane				
		5005	Naphthalene				
		5250	o-Xylene				
		5100	Styrene				
		4370	T-amylmethylether (TAME)				
		4420	tert-Butyl alcohol				
		5115	Tetrachloroethylene (Perchloroethylene)				
		5140	Toluene				
		4700	trans-1,2-Dichloroethylene				
		4685	trans-1,3-Dichloropropylene				



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MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Air	EPA TO-15				1999	10248803	VOCs collected in Canisters by GC/MS
		5170	Trichloroethene (Trichloroethylene)				
		5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)				
		5225	Vinyl acetate				
		5235	Vinyl chloride				
		5260	Xylene (total)				
	EPA TO-3				1984	10312400	Method for the Determination of Volatile Organic Compounds in Ambient Air Using Cryogenic Preconcentration Techniques and Gas Chromatography With Flame Ionization and Electron Capture Detection
		4747	Ethane				
		9408	Gasoline range organics (GRO)				
		4926	Methane				
		4855	n-Hexane				
		5029	n-Propane				
Drinking Water	EPA 150.1				1982	10008409	pH - Electrometric Measurement
		1900	pH				
	EPA 180.1			2	1993	10011800	Turbidity - Nephelometric
		2055	Turbidity				
	EPA 200.7			4.4	1994	10013806	ICP - metals
		1000	Aluminum				
		1015	Barium				
		1020	Beryllium				
		1025	Boron				
		1030	Cadmium				
		1035	Calcium				
		1550	Calcium hardness as CaCO ₃				
		1040	Chromium				
		1055	Copper				
		1760	Hardness (calc.)				
		1070	Iron				
		1085	Magnesium				
		1090	Manganese				
		1105	Nickel				



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MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Drinking Water	EPA 200.7			4.4	1994	10013806	ICP - metals
		1125	Potassium				
		1990	Silica as SiO ₂				
		1145	Silicon				
		1150	Silver				
		1155	Sodium				
		1755	Total hardness as CaCO ₃				
		1190	Zinc				
	EPA 200.8					10014401	ICP/MS - metals
		1000	Aluminum				
		1005	Antimony				
		1010	Arsenic				
		1015	Barium				
		1020	Beryllium				
		1025	Boron				
		1030	Cadmium				
		1035	Calcium				
		1040	Chromium				
		1055	Copper				
		1070	Iron				
		1075	Lead				
		1085	Magnesium				
		1090	Manganese				
		1100	Molybdenum				
		1105	Nickel				
		1125	Potassium				
		1140	Selenium				
		1150	Silver				
		1155	Sodium				
		1160	Strontium				
		1165	Thallium				
		1185	Vanadium				
		1190	Zinc				
	EPA 245.1			3	1994	10036609	Mercury by Cold Vapor Atomic Absorption
		1095	Mercury				
	EPA 300.0			2.1	1993	10053200	Methods for the Determination of Inorganic Substances in Environmental Samples
		1575	Chloride				
		1730	Fluoride				



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MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Drinking Water	EPA 300.0			2.1	1993	10053200	Methods for the Determination of Inorganic Substances in Environmental Samples
		1810	Nitrate as N				
		1820	Nitrate plus Nitrite as N				
		1835	Nitrite				
		1840	Nitrite as N				
		2000	Sulfate				
	EPA 314.0				1999	10277006	Perchlorate in Drinking Water by Ion Chromatography
		1895	Perchlorate				
	EPA 335.4			1.0	1993	10061402	Methods for the Determination of Inorganic Substances in Environmental Samples
		1645	Total cyanide				
	EPA 524.2					10088605	Volatile Organic Compounds GC/MS Capillary Column
		5105	1,1,1,2-Tetrachloroethane				
		5160	1,1,1-Trichloroethane				
		5110	1,1,2,2-Tetrachloroethane				
		5185	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)				
		5165	1,1,2-Trichloroethane				
		4630	1,1-Dichloroethane				
		4640	1,1-Dichloroethylene				
		4670	1,1-Dichloropropene				
		5180	1,2,3-Trichloropropane				
		5155	1,2,4-Trichlorobenzene				
		5210	1,2,4-Trimethylbenzene				
		4610	1,2-Dichlorobenzene				
		4635	1,2-Dichloroethane (Ethylene dichloride)				
		4655	1,2-Dichloropropane				
		5215	1,3,5-Trimethylbenzene				
		4615	1,3-Dichlorobenzene				
		4660	1,3-Dichloropropane				
		4620	1,4-Dichlorobenzene				
		4665	2,2-Dichloropropane				
		4535	2-Chlorotoluene				
		4540	4-Chlorotoluene				
		4910	4-Isopropyltoluene (p-Cymene)				
		4375	Benzene				
		4385	Bromobenzene				



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MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Drinking Water	EPA 524.2					10088605	Volatile Organic Compounds GC/MS Capillary Column
		4390	Bromochloromethane				
		4395	Bromodichloromethane				
		4400	Bromoform				
		4455	Carbon tetrachloride				
		4475	Chlorobenzene				
		4575	Chlorodibromomethane				
		4485	Chloroethane (Ethyl chloride)				
		4505	Chloroform				
		4645	cis-1,2-Dichloroethylene				
		4680	cis-1,3-Dichloropropene				
		9375	Di-isopropylether (DIPE)				
		4595	Dibromomethane (Methylene bromide)				
		4625	Dichlorodifluoromethane (Freon-12)				
		4770	Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)				
		4765	Ethylbenzene				
		4835	Hexachlorobutadiene				
		4900	Isopropylbenzene (Cumene)				
		5240	m+p-xylene				
		4960	Methyl chloride (Chloromethane)				
		5000	Methyl tert-butyl ether (MTBE)				
		4975	Methylene chloride (Dichloromethane)				
		4435	n-Butylbenzene				
		5090	n-Propylbenzene				
		5250	o-Xylene				
		4440	sec-Butylbenzene				
		5100	Styrene				
		4370	T-amylmethylether (TAME)				
		4420	tert-Butyl alcohol				
		4445	tert-Butylbenzene				
		5115	Tetrachloroethylene (Perchloroethylene)				
		5140	Toluene				
		5205	Total trihalomethanes				
		4700	trans-1,2-Dichloroethylene				
		5170	Trichloroethene (Trichloroethylene)				



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MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Drinking Water	EPA 524.2					10088605	Volatile Organic Compounds GC/MS Capillary Column
		5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)				
		5235	Vinyl chloride				
	SM 2130 B			21st ED	2005	20042608	Turbidity by Nephelometric Method
		2055	Turbidity				
	SM 2320 B			21st ED	2005	20045403	Alkalinity by Titration Method
		1505	Alkalinity as CaCO ₃				
	SM 2340 B-97			1997		20046600	Hardness by calculation
		1750	Hardness				
	SM 2510 B			20th ED	1998	20048208	Conductivity by Probe
		1610	Conductivity				
	SM 2540 B-2011			2011		20049416	Total Solids Dried at 103 - 105C
		1950	Residue-total				
	SM 2540 C-97			1997	1997	20050402	Total Dissolved Solids Dried at 180C
		1955	Residue-filterable (TDS)				
	SM 2540 D-2011				2011	20051212	Total Suspended Solids Dried at 103 - 105 C
		1960	Residue-nonfilterable (TSS)				
	SM 4500-Cl G			21st ED	2005	20081407	Chlorine by DPD Colorimetric Method
		1945	Residual free chlorine				
		1940	Total residual chlorine				
	SM 4500-CN E-1999				2011	20096417	Cyanide by Colorimetric Method
		1645	Total cyanide				
	SM 4500-CN G-1999			online		20097216	Cyanide Amenable to Chlorination after Distillation
		1510	Amenable cyanide				
	SM 4500-F ⁻ C-2011			online	2011	20102414	Fluoride by Ion Selective Electrode
		1730	Fluoride				
	SM 4500-H+ B			21st ED	2005	20105004	pH Value by Electrometric Method .
		1900	pH				
	SM 4500-NO ₃ ⁻ F			21st ED	2005	20116409	Nitrate by Automated Cadmium Reduction Method
		1810	Nitrate as N				
		1820	Nitrate plus Nitrite as N				
		1840	Nitrite as N				



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Drinking Water	SM 4500-SiO ₂ C			20th ED	1998	20128205	Silicon by Molybdosilicate Method
		1990	Silica as SiO ₂				
	SM 4500-SiO ₂ D			20th ED	1998	20128807	Silicon by Heteropoly Blue Method
		1990	Silica as SiO ₂				
	SM 5310 B			21st ED	2005	20137604	TOC by High-Temperature Combustion Method
		1710	Dissolved organic carbon (DOC)				
		2040	Total organic carbon				
	SM 9215 B			22nd ED	2004	20179811	Heterotrophic Plate Count - Pour Plate Method
		2555	Heterotrophic plate count				
	SM 9215 E SimPlate®				2004	20185302	Fluorogenic Quantitative (SimPlate®): Heterotrophic Bacteria
		2555	Heterotrophic plate count				
	SM 9221 B (LTB) + C MPN			22nd	2006	20187228	Multiple Tube Fermentation Quantitative (LTB): Total Coliform
		2500	Total coliforms				
	SM 9221 B (LTB) + E (EC) + C MPN			22nd	2006	20189020	Multiple Tube Fermentation Quantitative (LTB/EC MUG): Total Coliform and Fecal coliform
		2530	Fecal coliforms				
	SM 9221 B plus F plus C-2006			2006		20190823	Multiple-Tube Fermentation Technique for Members of the Coliform Group - Standard Total Coliform Fermentation Technique
		2525	Escherichia coli				
Non-Potable Water	SM 9223 B (Colilert)			22nd Ed	2004	20212413	Enzyme Substrate Coliform Test (Colilert) P/A
		2525	Escherichia coli				
		2500	Total coliforms				
	SM 9223 B (Colilert-18)			22nd Ed	2004	20214419	Enzyme Substrate Coliform Test (Colilert-18)
		2525	Escherichia coli				
		2500	Total coliforms				
	SM 9223 B (Colisure)			22nd Ed	2004	20231612	Enzyme Substrate Coliform Test (Colisure)
		2525	Escherichia coli				
		2500	Total coliforms				
	EPA 1010				1986	10116606	Pensky-Martens Closed-Cup Method for Determining Ignitability
		1780	Ignitability				



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MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Non-Potable Water	EPA 1030				1996	10117201	Ignitability of Solids
		1780	Ignitability				
	EPA 120.1					10006403	Conductance - Specific @ 25 C
		1610	Conductivity				
	EPA 1311				1992	10118806	Toxicity Characteristic Leaching Procedure
		1466	Toxicity Characteristic Leaching Procedure (TCLP)				
	EPA 1312				1994	10119003	Synthetic Precipitation Leaching Procedure
		1460	Synthetic Precipitation Leaching Procedure (SPLP)				
	EPA 1664A (HEM)				1999	10127807	N-Hexane Extractable Material (Oil and Grease) by Extraction and Gravimetry
		1803	n-Hexane Extractable Material (O&G)				
	EPA 180.1			2	1993	10011800	Turbidity - Nephelometric
		2055	Turbidity				
	EPA 200.7			4.4	1994	10013806	ICP - metals
		1000	Aluminum				
		1005	Antimony				
		1010	Arsenic				
		1015	Barium				
		1020	Beryllium				
		1025	Boron				
		1030	Cadmium				
		1035	Calcium				
		1550	Calcium hardness as CaCO3				
		1040	Chromium				
		1050	Cobalt				
		1055	Copper				
		1070	Iron				
		1075	Lead				
		1085	Magnesium				
		1090	Manganese				
		1100	Molybdenum				
		1105	Nickel				
		1125	Potassium				
		1140	Selenium				
		1990	Silica as SiO2				



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MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Non-Potable Water	EPA 200.7			4.4	1994	10013806	ICP - metals
		1145	Silicon				
		1150	Silver				
		1155	Sodium				
		1160	Strontium				
		1165	Thallium				
		1755	Total hardness as CaCO ₃				
		1185	Vanadium				
		1190	Zinc				
	EPA 200.8					10014401	ICP/MS - metals
		1000	Aluminum				
		1005	Antimony				
		1010	Arsenic				
		1015	Barium				
		1020	Beryllium				
		1025	Boron				
		1030	Cadmium				
		1035	Calcium				
		1040	Chromium				
		1050	Cobalt				
		1055	Copper				
		1070	Iron				
		1075	Lead				
		1085	Magnesium				
		1090	Manganese				
		1100	Molybdenum				
		1105	Nickel				
		1125	Potassium				
		1140	Selenium				
		1150	Silver				
		1155	Sodium				
		1165	Thallium				
		1185	Vanadium				
		1190	Zinc				
	EPA 218.6			3.3	1994	10028009	Dissolved Hexavalent Chromium by Ion Chromatography
		1045	Chromium VI				
	EPA 300.0			2.1	1993	10053200	Methods for the Determination of Inorganic Substances in Environmental Samples
		1540	Bromide				



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MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Non-Potable Water	EPA 300.0			2.1	1993	10053200	Methods for the Determination of Inorganic Substances in Environmental Samples
		1575	Chloride				
		1730	Fluoride				
		1810	Nitrate as N				
		1820	Nitrate plus Nitrite as N				
		1835	Nitrite				
		1840	Nitrite as N				
		2000	Sulfate				
	EPA 335.4			1.0	1993	10061402	Methods for the Determination of Inorganic Substances in Environmental Samples
		1510	Amenable cyanide				
		1645	Total cyanide				
	EPA 351.2			2	1993	10065404	Total Kjeldahl Nitrogen - Block Digest, Phenate
		1795	Total Kjeldahl Nitrogen (TKN)				
	EPA 353.2			2	1993	10067604	Nitrate/Nitrite Nitrogen - Automated, Cadmium
		1810	Nitrate as N				
		1820	Nitrate plus Nitrite as N				
		1840	Nitrite as N				
	EPA 410.4			2	1993	10077404	Chemical Oxygen Demand - Colorimetric, Automated.
		1565	Chemical oxygen demand				
	EPA 420.1				1978	10079400	Phenolics - Spectrophotometric, manual.
		1905	Total phenolics				
	EPA 6010B				1996	10155609	ICP - AES
		1000	Aluminum				
		1005	Antimony				
		1010	Arsenic				
		1015	Barium				
		1020	Beryllium				
		1023	Bismuth				
		1025	Boron				
		1030	Cadmium				
		1035	Calcium				
		1040	Chromium				
		1050	Cobalt				
		1055	Copper				
		1760	Hardness (calc.)				



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EPA CODE: CA00054
Certificate: 4038 - 015

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MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Non-Potable Water	EPA 6010B				1996	10155609	ICP - AES
		1070	Iron				
		1075	Lead				
		1085	Magnesium				
		1090	Manganese				
		1100	Molybdenum				
		1105	Nickel				
		1910	Phosphorus, total				
		1125	Potassium				
		1140	Selenium				
		1990	Silica as SiO ₂				
		1145	Silicon				
		1150	Silver				
		1155	Sodium				
		1160	Strontium				
		2017	Sulfur				
		1165	Thallium				
		1175	Tin				
		1180	Titanium				
		1185	Vanadium				
		1190	Zinc				
	EPA 6020			Update II	1994	10156204	Inductively Coupled Plasma-Mass Spectrometry
		1000	Aluminum				
		1005	Antimony				
		1010	Arsenic				
		1015	Barium				
		1020	Beryllium				
		1025	Boron				
		1030	Cadmium				
		1035	Calcium				
		1040	Chromium				
		1050	Cobalt				
		1055	Copper				
		1070	Iron				
		1075	Lead				
		1085	Magnesium				
		1090	Manganese				
		1100	Molybdenum				
		1105	Nickel				



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Non-Potable Water	EPA 6020			Update II	1994	10156204	Inductively Coupled Plasma-Mass Spectrometry
		1125	Potassium				
		1140	Selenium				
		1150	Silver				
		1155	Sodium				
		1160	Strontium				
		1165	Thallium				
		1180	Titanium				
		1185	Vanadium				
		1190	Zinc				
	EPA 608.3 GC-ECD				2016	10296614	Organochlorine Pesticides and PCBs by GC/ECD
		7355	4,4'-DDD				
		7360	4,4'-DDE				
		7365	4,4'-DDT				
		7025	Aldrin				
		7110	alpha-BHC (alpha-Hexachlorocyclohexane)				
		8880	Aroclor-1016 (PCB-1016)				
		8885	Aroclor-1221 (PCB-1221)				
		8890	Aroclor-1232 (PCB-1232)				
		8895	Aroclor-1242 (PCB-1242)				
		8900	Aroclor-1248 (PCB-1248)				
		8905	Aroclor-1254 (PCB-1254)				
		8910	Aroclor-1260 (PCB-1260)				
		7115	beta-BHC (beta-Hexachlorocyclohexane)				
		7250	Chlordane (tech.)				
		7240	cis-chlordane (alpha-Chlordane)				
		7105	delta-BHC				
		7470	Dieldrin				
		7510	Endosulfan I				
		7515	Endosulfan II				
		7520	Endosulfan sulfate				
		7540	Endrin				
		7530	Endrin aldehyde				
		7535	Endrin ketone				
		7120	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)				
		7245	gamma-Chlordane				
		7685	Heptachlor				



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Non-Potable Water	EPA 608.3 GC-ECD				2016	10296614	Organochlorine Pesticides and PCBs by GC/ECD
		7690	Heptachlor epoxide				
		7810	Methoxychlor				
		8250	Toxaphene (Chlorinated camphene)				
	EPA 624.1				2016	10298121	Purgeables by GC/MS
		5105	1,1,1,2-Tetrachloroethane				
		5160	1,1,1-Trichloroethane				
		5110	1,1,2,2-Tetrachloroethane				
		5185	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)				
		5165	1,1,2-Trichloroethane				
		4630	1,1-Dichloroethane				
		4640	1,1-Dichloroethylene				
		4670	1,1-Dichloropropene				
		5150	1,2,3-Trichlorobenzene				
		5180	1,2,3-Trichloropropane				
		5182	1,2,3-Trimethylbenzene				
		5155	1,2,4-Trichlorobenzene				
		5210	1,2,4-Trimethylbenzene				
		4570	1,2-Dibromo-3-chloropropane (DBCP)				
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)				
		4610	1,2-Dichlorobenzene				
		4635	1,2-Dichloroethane (Ethylene dichloride)				
		4655	1,2-Dichloropropane				
		5215	1,3,5-Trimethylbenzene				
		9318	1,3-Butadiene				
		4615	1,3-Dichlorobenzene				
		4660	1,3-Dichloropropane				
		4675	1,3-Dichloropropene				
		4620	1,4-Dichlorobenzene				
		4665	2,2-Dichloropropane				
		4668	2,3-Dichloropropene				
		4410	2-Butanone (Methyl ethyl ketone, MEK)				
		4535	2-Chlorotoluene				
		4860	2-Hexanone (MBK)				
		4540	4-Chlorotoluene				



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MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Non-Potable Water	EPA 624.1				2016	10298121	Purgeables by GC/MS
		4995	4-Methyl-2-pentanone (MIBK)				
		4315	Acetone				
		4325	Acrolein (Propenal)				
		4340	Acrylonitrile				
		4355	Allyl chloride (3-Chloropropene)				
		4375	Benzene				
		4385	Bromobenzene				
		4390	Bromochloromethane				
		4395	Bromodichloromethane				
		4400	Bromoform				
		4450	Carbon disulfide				
		4455	Carbon tetrachloride				
		4475	Chlorobenzene				
		4575	Chlorodibromomethane				
		4485	Chloroethane (Ethyl chloride)				
		4505	Chloroform				
		4705	cis & trans-1,2-Dichloroethene				
		4645	cis-1,2-Dichloroethylene				
		4680	cis-1,3-Dichloropropene				
		4600	cis-1,4-Dichloro-2-butene				
		4765	Ethylbenzene				
		4835	Hexachlorobutadiene				
		4900	Isopropylbenzene (Cumene)				
		5240	m+p-xylene				
		4950	Methyl bromide (Bromomethane)				
		4960	Methyl chloride (Chloromethane)				
		5000	Methyl tert-butyl ether (MTBE)				
		4975	Methylene chloride (Dichloromethane)				
		4435	n-Butylbenzene				
		5090	n-Propylbenzene				
		5005	Naphthalene				
		5250	o-Xylene				
		4440	sec-Butylbenzene				
		5100	Styrene				
		4445	tert-Butylbenzene				
		5115	Tetrachloroethylene (Perchloroethylene)				
		5140	Toluene				
		4700	trans-1,2-Dichloroethylene				



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Non-Potable Water	EPA 624.1				2016	10298121	Purgeables by GC/MS
		4685	trans-1,3-Dichloropropylene				
		5170	Trichloroethene (Trichloroethylene)				
		5235	Vinyl chloride				
		5260	Xylene (total)				
	EPA 625.1				2016	10300024	Base/Neutrals and Acids by GC/MS
		5155	1,2,4-Trichlorobenzene				
		4610	1,2-Dichlorobenzene				
		4615	1,3-Dichlorobenzene				
		4620	1,4-Dichlorobenzene				
		4659	2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether				
		6835	2,4,5-Trichlorophenol				
		6840	2,4,6-Trichlorophenol				
		6000	2,4-Dichlorophenol				
		6130	2,4-Dimethylphenol				
		6175	2,4-Dinitrophenol				
		6185	2,4-Dinitrotoluene (2,4-DNT)				
		6190	2,6-Dinitrotoluene (2,6-DNT)				
		5795	2-Chloronaphthalene				
		5800	2-Chlorophenol				
		6360	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)				
		6385	2-Methylnaphthalene				
		6400	2-Methylphenol (o-Cresol)				
		6460	2-Nitroaniline				
		6490	2-Nitrophenol				
		6412	3 & 4 Methylphenol				
		5945	3,3'-Dichlorobenzidine				
		6465	3-Nitroaniline				
		5660	4-Bromophenyl phenyl ether (BDE-3)				
		5700	4-Chloro-3-methylphenol				
		5745	4-Chloroaniline				
		5825	4-Chlorophenyl phenylether				
		6410	4-Methylphenol (p-Cresol)				
		6470	4-Nitroaniline				
		6500	4-Nitrophenol				
		5500	Acenaphthene				
		5505	Acenaphthylene				



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Non-Potable Water	EPA 625.1				2016	10300024	Base/Neutrals and Acids by GC/MS
		5545	Aniline				
		5555	Anthracene				
		5562	Azobenzene				
		5595	Benzidine				
		5575	Benzo(a)anthracene				
		5580	Benzo(a)pyrene				
		5590	Benzo(g,h,i)perylene				
		5600	Benzo(k)fluoranthene				
		5585	Benzo[b]fluoranthene				
		5610	Benzoic acid				
		5630	Benzyl alcohol				
		5760	bis(2-Chloroethoxy)methane				
		5765	bis(2-Chloroethyl) ether				
		5670	Butyl benzyl phthalate				
		5680	Carbazole				
		5855	Chrysene				
		6065	Di(2-ethylhexyl) phthalate (bis (2-Ethylhexyl)phthalate, DEHP)				
		5925	Di-n-butyl phthalate				
		6200	Di-n-octyl phthalate				
		5895	Dibenz(a,h) anthracene				
		6070	Diethyl phthalate				
		6135	Dimethyl phthalate				
		6265	Fluoranthene				
		6270	Fluorene				
		6275	Hexachlorobenzene				
		4835	Hexachlorobutadiene				
		6285	Hexachlorocyclopentadiene				
		4840	Hexachloroethane				
		6315	Indeno(1,2,3-cd) pyrene				
		6320	Isophorone				
		6545	n-Nitrosodi-n-propylamine				
		6530	n-Nitrosodimethylamine				
		6535	n-Nitrosodiphenylamine				
		5005	Naphthalene				
		5015	Nitrobenzene				
		6605	Pentachlorophenol				
		6615	Phenanthrene				
		6625	Phenol				



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Non-Potable Water	EPA 625.1				2016	10300024	Base/Neutrals and Acids by GC/MS
		6665	Pyrene				
		5095	Pyridine				
	EPA 7196A			Update I	1992	10162400	Chromium Hexavalent colorimetric
		1045	Chromium VI				
	EPA 7199				1996	10163005	Determination of Hexavalent Chromium in Drinking Water, Groundwater and Industrial Wastewater Effluents by Ion Chromatography
		1045	Chromium VI				
	EPA 7470A				1994	10165807	Mercury in Liquid Waste by Cold Vapor Atomic Absorption
		1095	Mercury				
	EPA 7471A				1994	10166208	Mercury in Solid Waste by Cold Vapor Atomic Absorption
		1095	Mercury				
	EPA 8015B				1996	10173601	Non-halogenated organics using GC/FID
		9369	Diesel range organics (DRO)				
		4747	Ethane				
		4752	Ethene				
		9408	Gasoline range organics (GRO)				
		4926	Methane				
		9499	Motor Oil				
		2050	Total Petroleum Hydrocarbons (TPH)				
	EPA 8081A				1996	10178606	Organochlorine Pesticides by GC/ECD
		7355	4,4'-DDD				
		7360	4,4'-DDE				
		7365	4,4'-DDT				
		7025	Aldrin				
		7110	alpha-BHC (alpha-Hexachlorocyclohexane)				
		7115	beta-BHC (beta-Hexachlorocyclohexane)				
		7250	Chlordane (tech.)				
		7240	cis-chlordane (alpha-Chlordane)				
		7105	delta-BHC				
		7470	Dieldrin				
		7510	Endosulfan I				
		7515	Endosulfan II				



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Non-Potable Water	EPA 8081A				1996	10178606	Organochlorine Pesticides by GC/ECD
		7520	Endosulfan sulfate				
		7540	Endrin				
		7530	Endrin aldehyde				
		7535	Endrin ketone				
		7120	gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)				
		7245	gamma-Chlordane				
		7685	Heptachlor				
		7690	Heptachlor epoxide				
		7810	Methoxychlor				
		8250	Toxaphene (Chlorinated camphene)				
	EPA 8082				1996	10179007	Polychlorinated Biphenyls (PCBs) by GC/ECD
		8880	Aroclor-1016 (PCB-1016)				
		8885	Aroclor-1221 (PCB-1221)				
		8890	Aroclor-1232 (PCB-1232)				
		8895	Aroclor-1242 (PCB-1242)				
		8900	Aroclor-1248 (PCB-1248)				
		8905	Aroclor-1254 (PCB-1254)				
		8910	Aroclor-1260 (PCB-1260)				
	EPA 8260B				1996	10184802	Volatile Organic Compounds by purge and trap GC/MS
		5105	1,1,1,2-Tetrachloroethane				
		5160	1,1,1-Trichloroethane				
		5110	1,1,2,2-Tetrachloroethane				
		5165	1,1,2-Trichloroethane				
		4630	1,1-Dichloroethane				
		4640	1,1-Dichloroethylene				
		4670	1,1-Dichloropropene				
		5150	1,2,3-Trichlorobenzene				
		5180	1,2,3-Trichloropropane				
		5155	1,2,4-Trichlorobenzene				
		5210	1,2,4-Trimethylbenzene				
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)				
		4610	1,2-Dichlorobenzene				
		4635	1,2-Dichloroethane (Ethylene dichloride)				
		4655	1,2-Dichloropropane				
		5215	1,3,5-Trimethylbenzene				



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MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Non-Potable Water	EPA 8260B				1996	10184802	Volatile Organic Compounds by purge and trap GC/MS
		4615	1,3-Dichlorobenzene				
		4660	1,3-Dichloropropane				
		4620	1,4-Dichlorobenzene				
		4665	2,2-Dichloropropane				
		4410	2-Butanone (Methyl ethyl ketone, MEK)				
		4500	2-Chloroethyl vinyl ether				
		4535	2-Chlorotoluene				
		4860	2-Hexanone (MBK)				
		4540	4-Chlorotoluene				
		4995	4-Methyl-2-pentanone (MIBK)				
		4315	Acetone				
		4325	Acrolein (Propenal)				
		4340	Acrylonitrile				
		4375	Benzene				
		4385	Bromobenzene				
		4390	Bromochloromethane				
		4395	Bromodichloromethane				
		4397	Bromoethane (Ethyl Bromide)				
		4400	Bromoform				
		4450	Carbon disulfide				
		4455	Carbon tetrachloride				
		4475	Chlorobenzene				
		4575	Chlorodibromomethane				
		4485	Chloroethane (Ethyl chloride)				
		4505	Chloroform				
		4705	cis & trans-1,2-Dichloroethene				
		4645	cis-1,2-Dichloroethylene				
		4680	cis-1,3-Dichloropropene				
		4600	cis-1,4-Dichloro-2-butene				
		9375	Di-isopropylether (DIPE)				
		4580	Dibromochloropropane				
		4595	Dibromomethane (Methylene bromide)				
		4625	Dichlorodifluoromethane (Freon-12)				
		4755	Ethyl acetate				
		4810	Ethyl methacrylate				
		4770	Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)				



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Non-Potable Water	EPA 8260B				1996	10184802	Volatile Organic Compounds by purge and trap GC/MS
		4765	Ethylbenzene				
		9408	Gasoline range organics (GRO)				
		4835	Hexachlorobutadiene				
		4870	Iodomethane (Methyl iodide)				
		4900	Isopropylbenzene (Cumene)				
		5240	m+p-xylene				
		4925	Methacrylonitrile				
		4960	Methyl chloride (Chloromethane)				
		4990	Methyl methacrylate				
		5000	Methyl tert-butyl ether (MTBE)				
		4975	Methylene chloride (Dichloromethane)				
		4435	n-Butylbenzene				
		5090	n-Propylbenzene				
		5005	Naphthalene				
		5250	o-Xylene				
		5035	Pentachloroethane				
		5080	Propionitrile (Ethyl cyanide)				
		4440	sec-Butylbenzene				
		5100	Styrene				
		4370	T-amylmethylether (TAME)				
		4420	tert-Butyl alcohol				
		4445	tert-Butylbenzene				
		5115	Tetrachloroethylene (Perchloroethylene)				
		5120	Tetrahydrofuran (THF)				
		5140	Toluene				
		4027	Total BTEX				
		5205	Total trihalomethanes				
		4700	trans-1,2-Dichloroethylene				
		4685	trans-1,3-Dichloropropylene				
		4605	trans-1,4-Dichloro-2-butene				
		5170	Trichloroethene (Trichloroethylene)				
		5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)				
		5225	Vinyl acetate				
		5235	Vinyl chloride				
		5260	Xylene (total)				



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MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Non-Potable Water	EPA 8270C				1996	10185805	Semivolatile Organic compounds by GC/MS
		5155	1,2,4-Trichlorobenzene				
		4610	1,2-Dichlorobenzene				
		4615	1,3-Dichlorobenzene				
		4620	1,4-Dichlorobenzene				
		4659	2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether				
		6835	2,4,5-Trichlorophenol				
		6840	2,4,6-Trichlorophenol				
		6000	2,4-Dichlorophenol				
		6130	2,4-Dimethylphenol				
		6175	2,4-Dinitrophenol				
		6185	2,4-Dinitrotoluene (2,4-DNT)				
		6190	2,6-Dinitrotoluene (2,6-DNT)				
		5795	2-Chloronaphthalene				
		5800	2-Chlorophenol				
		6360	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)				
		6385	2-Methylnaphthalene				
		6400	2-Methylphenol (o-Cresol)				
		6460	2-Nitroaniline				
		6490	2-Nitrophenol				
		5945	3,3'-Dichlorobenzidine				
		6405	3-Methylphenol (m-Cresol)				
		6465	3-Nitroaniline				
		5660	4-Bromophenyl phenyl ether (BDE-3)				
		5700	4-Chloro-3-methylphenol				
		5745	4-Chloroaniline				
		5825	4-Chlorophenyl phenylether				
		6410	4-Methylphenol (p-Cresol)				
		6470	4-Nitroaniline				
		6500	4-Nitrophenol				
		5500	Acenaphthene				
		5505	Acenaphthylene				
		5545	Aniline				
		5555	Anthracene				
		5595	Benzidine				
		5575	Benzo(a)anthracene				
		5580	Benzo(a)pyrene				
		5590	Benzo(g,h,i)perylene				



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Certificate: 4038 - 015

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MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Non-Potable Water	EPA 8270C				1996	10185805	Semivolatile Organic compounds by GC/MS
		5600	Benzo(k)fluoranthene				
		5585	Benzo[b]fluoranthene				
		5610	Benzoic acid				
		5630	Benzyl alcohol				
		5760	bis(2-Chloroethoxy)methane				
		5765	bis(2-Chloroethyl) ether				
		5670	Butyl benzyl phthalate				
		5855	Chrysene				
		6065	Di(2-ethylhexyl) phthalate (bis (2-Ethylhexyl)phthalate, DEHP)				
		5925	Di-n-butyl phthalate				
		6200	Di-n-octyl phthalate				
		5895	Dibenz(a,h) anthracene				
		5905	Dibenzofuran				
		6070	Diethyl phthalate				
		6135	Dimethyl phthalate				
		6265	Fluoranthene				
		6270	Fluorene				
		6275	Hexachlorobenzene				
		4835	Hexachlorobutadiene				
		6285	Hexachlorocyclopentadiene				
		4840	Hexachloroethane				
		6315	Indeno(1,2,3-cd) pyrene				
		6320	Isophorone				
		6545	n-Nitrosodi-n-propylamine				
		6530	n-Nitrosodimethylamine				
		6535	n-Nitrosodiphenylamine				
		5005	Naphthalene				
		5015	Nitrobenzene				
		6605	Pentachlorophenol				
		6615	Phenanthrene				
		6625	Phenol				
		6665	Pyrene				
		5095	Pyridine				
	EPA 9012A				1996	10193405	Total and Amenable Cyanide (automated colorimetric with off-line distillation)
		1510	Amenable cyanide				
		1635	Cyanide				
		1645	Total cyanide				



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Non-Potable Water	EPA 9014				1996	10193803	Titrimetric and Manual Spectrophotometric Determinative Methods for Cyanide
		1510	Amenable cyanide				
		1635	Cyanide				
		1645	Total cyanide				
	EPA 9040B				1995	10197203	pH Electrometric Measurement
		1900	pH				
	EPA 9045C				1995	10198400	Soil and Waste pH
		1900	pH				
	EPA 9214				1996	10206403	Potentiometric Determination of Fluoride in Aqueous Samples with Ion-Selective Electrode
		1730	Fluoride				
	SM 2130 B-2011				2011	20048220	Turbidity by Nephelometric Method
		2055	Turbidity				
	SM 2310 B-2011			online	2011	20044615	Acidity, as CaCO ₃
		1500	Acidity, as CaCO ₃				
	SM 2320 B-2011			online	2011	20045618	Alkalinity as CaCO ₃
		1505	Alkalinity as CaCO ₃				
	SM 2340 B-2011			online		20046611	Hardness
		1750	Hardness				
	SM 2510 B-2011				2011	20048617	Conductivity by Probe
		1610	Conductivity				
	SM 2540 B-2011			2011		20049416	Total Solids Dried at 103 - 105C
		1950	Residue-total				
	SM 2540 C-2011			online	2011	20050413	Residue-filterable (TDS)
		1955	Residue-filterable (TDS)				
	SM 2540 D-2011				2011	20051212	Total Suspended Solids Dried at 103 - 105 C
		1960	Residue-nonfilterable (TSS)				
	SM 2540 E-2011			2011		20051596	Fixed & Volatile Solids Ignited at 550 C
		1725	Total, fixed, and volatile residue				
	SM 2540 F-2011				2011	20052215	Settleable Solids
		1965	Residue-settleable				
	SM 4500-Cl G-2011			22nd ED	2011	20081623	Chlorine (Residual) by DPD Colorimetric Method
		1945	Residual free chlorine				



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Non-Potable Water	SM 4500-Cl G-2011			22nd ED	2011	20081623	Chlorine (Residual) by DPD Colorimetric Method
		1940	Total residual chlorine				
	SM 4500-CN E-2011			2011		20096428	Cyanide by Colormetric Method
		1645	Total cyanide				
	SM 4500-CN ⁻ G-2011				2011	20097227	Cyanides Amenable to Chlorination after Distillation
		1510	Amenable cyanide				
	SM 4500-F ⁻ C-2011			online	2011	20102414	Fluoride by Ion Selective Electrode
		1730	Fluoride				
	SM 4500-H ⁺ B-2011					20105220	pH - Electrometric Measurement
		1900	pH				
	SM 4500-NO ₃ ⁻ F-2011				2011	20117628	Nitrogen (Nitrate) - Automated Cadmium Reduction Method
		1810	Nitrate as N				
		1820	Nitrate plus Nitrite as N				
		1840	Nitrite as N				
	SM 4500-O G-2011			22nd ED	2011	20121668	Dissolved Oxygen by Membrane Electrode
		1880	Oxygen, dissolved				
	SM 4500-P E-97			online	1997	20124203	Phosphorus by Ascorbic Acid Method
		1870	Orthophosphate as P				
		1910	Phosphorus, total				
	SM 4500-S ₂ ⁻ D-2011			online	2011	20125864	Sulfide by Methylene Blue Method
		2005	Sulfide				
	SM 4500-SiO ₂ C-2011			online	2011	20128614	Silica - Dissolved
		1995	Silica-dissolved				
	SM 5210 B-2011			online	2011	20135266	Biochemical Oxygen Demand (5 days @ 20 C).
		1530	Biochemical oxygen demand				
		1555	Carbonaceous BOD, CBOD				
	SM 5220 D-2011			2011		20136816	Chemical Oxygen Demand by Closed Reflux and Colorimetric Determination
		1565	Chemical oxygen demand				
	SM 5310 B-2011			2011		20137820	TOC by High-Temperature Combustion Method
		2040	Total organic carbon				
	SM 9221 B (LTB) + C MPN			22nd	2006	20187228	Multiple Tube Fermentation Quantitative (LTB): Total Coliform
		2500	Total coliforms				



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MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Non-Potable Water	SM 9221 B (LTB) + E (EC) + C MPN			22nd	2006	20189020	Multiple Tube Fermentation Quantitative (LTB/EC MUG): Total Coliform and Fecal coliform
		2530	Fecal coliforms				
	SM 9221 B plus F plus C- 2006			2006		20190823	Multiple-Tube Fermentation Technique for Members of the Coliform Group - Standard Total Coliform Fermentation Technique
		2525	Escherichia coli				
	SM 9223 B (Colilert Quanti-Tray)- 2004			22nd Ed	2004	20211614	Enzyme Substrate Coliform Test (Colilert Quanti-Tray)
		2525	Escherichia coli				
		2500	Total coliforms				
	SM 9223 B (Colilert-18)			22nd Ed	2004	20214419	Enzyme Substrate Coliform Test (Colilert-18)
		2525	Escherichia coli				
		2530	Fecal coliforms				
		2500	Total coliforms				
	SM 9230 B (BEA)			22nd ED	2007	20037712	Fecal Streptococcus and Enterococcus Groups - Multiple Tube Technique
		2540	Fecal streptococci				
Solids	SM 9230 D Enterolert					20219709	Fluorogenic Quantitative (Enterolert): Enterococci
		2520	Enterococci				
	CA Title 22 WET				1985	90017235	CA Waste Extraction Test (WET)
		1407	California Waste Extraction Test				
	EPA 1010				1986	10116606	Pensky-Martens Closed-Cup Method for Determining Ignitability
		1780	Ignitability				
	EPA 1030				1996	10117201	Ignitability of Solids
		1780	Ignitability				
	EPA 1311				1992	10118806	Toxicity Characteristic Leaching Procedure
		1466	Toxicity Characteristic Leaching Procedure (TCLP)				
	EPA 1312				1994	10119003	Synthetic Precipitation Leaching Procedure
		1460	Synthetic Precipitation Leaching Procedure (SPLP)				



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MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Solids	EPA 300.0			2.1	1993	10053200	Methods for the Determination of Inorganic Substances in Environmental Samples
		1540	Bromide				
		1575	Chloride				
		1730	Fluoride				
		1810	Nitrate as N				
		1820	Nitrate plus Nitrite as N				
		1835	Nitrite				
		1840	Nitrite as N				
		2000	Sulfate				
	EPA 6010B				1996	10155609	ICP - AES
		1000	Aluminum				
		1005	Antimony				
		1010	Arsenic				
		1015	Barium				
		1020	Beryllium				
		1023	Bismuth				
		1025	Boron				
		1030	Cadmium				
		1035	Calcium				
		1040	Chromium				
		1050	Cobalt				
		1055	Copper				
		1760	Hardness (calc.)				
		1070	Iron				
		1075	Lead				
		1085	Magnesium				
		1090	Manganese				
		1100	Molybdenum				
		1105	Nickel				
		1910	Phosphorus, total				
		1125	Potassium				
		1140	Selenium				
		1990	Silica as SiO ₂				
		1145	Silicon				
		1150	Silver				
		1155	Sodium				
		1160	Strontium				
		2017	Sulfur				
		1165	Thallium				



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Solids	EPA 6010B				1996	10155609	ICP - AES
		1175	Tin				
		1180	Titanium				
		1185	Vanadium				
		1190	Zinc				
	EPA 6020			Update II	1994	10156204	Inductively Coupled Plasma-Mass Spectrometry
		1000	Aluminum				
		1005	Antimony				
		1010	Arsenic				
		1015	Barium				
		1020	Beryllium				
		1025	Boron				
		1030	Cadmium				
		1035	Calcium				
		1040	Chromium				
		1050	Cobalt				
		1055	Copper				
		1070	Iron				
		1075	Lead				
		1085	Magnesium				
		1090	Manganese				
		1100	Molybdenum				
		1105	Nickel				
		1910	Phosphorus, total				
		1125	Potassium				
		1140	Selenium				
		1150	Silver				
		1155	Sodium				
		1160	Strontium				
		1165	Thallium				
		1180	Titanium				
		1185	Vanadium				
		1190	Zinc				
	EPA 6020B			Update V	2014	10156420	Inductively Coupled Plasma-Mass Spectrometry
		1095	Mercury				
	EPA 7196A			Update I	1992	10162400	Chromium Hexavalent colorimetric
		1045	Chromium VI				



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MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Solids	EPA 7199				1996	10163005	Determination of Hexavalent Chromium in Drinking Water, Groundwater and Industrial Wastewater Effluents by Ion Chromatography
		1045	Chromium VI				
	EPA 7470A				1994	10165807	Mercury in Liquid Waste by Cold Vapor Atomic Absorption
		1095	Mercury				
	EPA 7471A				1994	10166208	Mercury in Solid Waste by Cold Vapor Atomic Absorption
		1095	Mercury				
	EPA 8015B				1996	10173601	Non-halogenated organics using GC/FID
		9369	Diesel range organics (DRO)				
		4747	Ethane				
		4752	Ethene				
		9408	Gasoline range organics (GRO)				
		4926	Methane				
		9499	Motor Oil				
		2050	Total Petroleum Hydrocarbons (TPH)				
	EPA 8081A				1996	10178606	Organochlorine Pesticides by GC/ECD
		7355	4,4'-DDD				
		7360	4,4'-DDE				
		7365	4,4'-DDT				
		7025	Aldrin				
		7110	alpha-BHC (alpha-Hexachlorocyclohexane)				
		7115	beta-BHC (beta-Hexachlorocyclohexane)				
		7250	Chlordane (tech.)				
		7240	cis-chlordane (alpha-Chlordane)				
		7105	delta-BHC				
		7470	Dieldrin				
		7510	Endosulfan I				
		7515	Endosulfan II				
		7520	Endosulfan sulfate				
		7540	Endrin				
		7530	Endrin aldehyde				
		7535	Endrin ketone				
		7120	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)				



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Solids	EPA 8081A				1996	10178606	Organochlorine Pesticides by GC/ECD
		7245	gamma-Chlordane				
		7685	Heptachlor				
		7690	Heptachlor epoxide				
		7810	Methoxychlor				
		8250	Toxaphene (Chlorinated camphene)				
	EPA 8082				1996	10179007	Polychlorinated Biphenyls (PCBs) by GC/ECD
		8880	Aroclor-1016 (PCB-1016)				
		8885	Aroclor-1221 (PCB-1221)				
		8890	Aroclor-1232 (PCB-1232)				
		8895	Aroclor-1242 (PCB-1242)				
		8900	Aroclor-1248 (PCB-1248)				
		8905	Aroclor-1254 (PCB-1254)				
		8910	Aroclor-1260 (PCB-1260)				
	EPA 8260B				1996	10184802	Volatile Organic Compounds by purge and trap GC/MS
		5105	1,1,1,2-Tetrachloroethane				
		5160	1,1,1-Trichloroethane				
		5110	1,1,2,2-Tetrachloroethane				
		5165	1,1,2-Trichloroethane				
		4630	1,1-Dichloroethane				
		4640	1,1-Dichloroethylene				
		4670	1,1-Dichloropropene				
		5150	1,2,3-Trichlorobenzene				
		5180	1,2,3-Trichloropropane				
		5155	1,2,4-Trichlorobenzene				
		5210	1,2,4-Trimethylbenzene				
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)				
		4610	1,2-Dichlorobenzene				
		4635	1,2-Dichloroethane (Ethylene dichloride)				
		4655	1,2-Dichloropropane				
		5215	1,3,5-Trimethylbenzene				
		4615	1,3-Dichlorobenzene				
		4660	1,3-Dichloropropane				
		4620	1,4-Dichlorobenzene				
		4665	2,2-Dichloropropane				
		4410	2-Butanone (Methyl ethyl ketone, MEK)				



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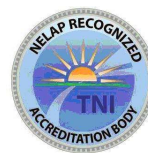
MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Solids	EPA 8260B				1996	10184802	Volatile Organic Compounds by purge and trap GC/MS
		4500	2-Chloroethyl vinyl ether				
		4535	2-Chlorotoluene				
		4860	2-Hexanone (MBK)				
		4540	4-Chlorotoluene				
		4995	4-Methyl-2-pentanone (MIBK)				
		4315	Acetone				
		4325	Acrolein (Propenal)				
		4340	Acrylonitrile				
		4375	Benzene				
		4385	Bromobenzene				
		4390	Bromochloromethane				
		4395	Bromodichloromethane				
		4397	Bromoethane (Ethyl Bromide)				
		4400	Bromoform				
		4450	Carbon disulfide				
		4455	Carbon tetrachloride				
		4475	Chlorobenzene				
		4575	Chlorodibromomethane				
		4485	Chloroethane (Ethyl chloride)				
		4505	Chloroform				
		4705	cis & trans-1,2-Dichloroethene				
		4645	cis-1,2-Dichloroethylene				
		4680	cis-1,3-Dichloropropene				
		4600	cis-1,4-Dichloro-2-butene				
		9375	Di-isopropylether (DIPE)				
		4580	Dibromochloropropane				
		4595	Dibromomethane (Methylene bromide)				
		4625	Dichlorodifluoromethane (Freon-12)				
		4755	Ethyl acetate				
		4810	Ethyl methacrylate				
		4770	Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)				
		4765	Ethylbenzene				
		9408	Gasoline range organics (GRO)				
		4835	Hexachlorobutadiene				
		4870	Iodomethane (Methyl iodide)				
		4900	Isopropylbenzene (Cumene)				
		5240	m+p-xylene				



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Solids	EPA 8260B				1996	10184802	Volatile Organic Compounds by purge and trap GC/MS
		4925	Methacrylonitrile				
		4960	Methyl chloride (Chloromethane)				
		4990	Methyl methacrylate				
		5000	Methyl tert-butyl ether (MTBE)				
		4975	Methylene chloride (Dichloromethane)				
		4435	n-Butylbenzene				
		5090	n-Propylbenzene				
		5005	Naphthalene				
		5250	o-Xylene				
		5035	Pentachloroethane				
		5080	Propionitrile (Ethyl cyanide)				
		4440	sec-Butylbenzene				
		5100	Styrene				
		4370	T-amylmethylether (TAME)				
		4420	tert-Butyl alcohol				
		4445	tert-Butylbenzene				
		5115	Tetrachloroethylene (Perchloroethylene)				
		5120	Tetrahydrofuran (THF)				
		5140	Toluene				
		4027	Total BTEX				
		5205	Total trihalomethanes				
		4700	trans-1,2-Dichloroethylene				
		4685	trans-1,3-Dichloropropylene				
		4605	trans-1,4-Dichloro-2-butene				
		5170	Trichloroethene (Trichloroethylene)				
		5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)				
		5225	Vinyl acetate				
		5235	Vinyl chloride				
		5260	Xylene (total)				
	EPA 8270C				1996	10185805	Semivolatile Organic compounds by GC/MS
		5155	1,2,4-Trichlorobenzene				
		4610	1,2-Dichlorobenzene				
		4615	1,3-Dichlorobenzene				
		4620	1,4-Dichlorobenzene				



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Solids	EPA 8270C				1996	10185805	Semivolatile Organic compounds by GC/MS
		4659	2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether				
		6835	2,4,5-Trichlorophenol				
		6840	2,4,6-Trichlorophenol				
		6000	2,4-Dichlorophenol				
		6130	2,4-Dimethylphenol				
		6175	2,4-Dinitrophenol				
		6185	2,4-Dinitrotoluene (2,4-DNT)				
		6005	2,6-Dichlorophenol				
		6190	2,6-Dinitrotoluene (2,6-DNT)				
		5795	2-Chloronaphthalene				
		5800	2-Chlorophenol				
		6360	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)				
		6385	2-Methylnaphthalene				
		6400	2-Methylphenol (o-Cresol)				
		6460	2-Nitroaniline				
		6490	2-Nitrophenol				
		5945	3,3'-Dichlorobenzidine				
		6405	3-Methylphenol (m-Cresol)				
		6465	3-Nitroaniline				
		5660	4-Bromophenyl phenyl ether (BDE-3)				
		5700	4-Chloro-3-methylphenol				
		5745	4-Chloroaniline				
		5825	4-Chlorophenyl phenylether				
		6410	4-Methylphenol (p-Cresol)				
		6470	4-Nitroaniline				
		6500	4-Nitrophenol				
		5500	Acenaphthene				
		5505	Acenaphthylene				
		5545	Aniline				
		5555	Anthracene				
		5595	Benzidine				
		5575	Benzo(a)anthracene				
		5580	Benzo(a)pyrene				
		5590	Benzo(g,h,i)perylene				
		5600	Benzo(k)fluoranthene				
		5585	Benzo[b]fluoranthene				
		5610	Benzoic acid				



Oregon

Environmental Laboratory Accreditation Program

ORELAP Fields of Accreditation



Enthalpy Analytical, LLC - Orange
931 W. Barkley Ave
Orange, CA 92868

ORELAP ID: 4038
EPA CODE: CA00054
Certificate: 4038 - 015

Issue Date: 1/30/2024 Expiration Date: 1/29/2025

As of 1/30/2024 this list supersedes all previous lists for this certificate number.

MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Solids	EPA 8270C				1996	10185805	Semivolatile Organic compounds by GC/MS
		5630	Benzyl alcohol				
		5760	bis(2-Chloroethoxy)methane				
		5765	bis(2-Chloroethyl) ether				
		5670	Butyl benzyl phthalate				
		5855	Chrysene				
		6065	Di(2-ethylhexyl) phthalate (bis (2-Ethylhexyl)phthalate, DEHP)				
		5925	Di-n-butyl phthalate				
		6200	Di-n-octyl phthalate				
		5895	Dibenz(a,h) anthracene				
		5905	Dibenzofuran				
		6070	Diethyl phthalate				
		6135	Dimethyl phthalate				
		6265	Fluoranthene				
		6270	Fluorene				
		6275	Hexachlorobenzene				
		4835	Hexachlorobutadiene				
		6285	Hexachlorocyclopentadiene				
		4840	Hexachloroethane				
		6315	Indeno(1,2,3-cd) pyrene				
		6320	Isophorone				
		6545	n-Nitrosodi-n-propylamine				
		6530	n-Nitrosodimethylamine				
		6535	n-Nitrosodiphenylamine				
		5005	Naphthalene				
		5015	Nitrobenzene				
		6605	Pentachlorophenol				
		6615	Phenanthrene				
		6625	Phenol				
		6665	Pyrene				
		5095	Pyridine				
	EPA 9012A				1996	10193405	Total and Amenable Cyanide (automated colorimetric with off-line distillation)
		1510	Amenable cyanide				
		1635	Cyanide				
		1645	Total cyanide				



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MATRIX	Reference	Code	Analyte	Revision	Rev. Date	Code	Description
Solids	EPA 9014				1996	10193803	Titrimetric and Manual Spectrophotometric Determinative Methods for Cyanide
		1510	Amenable cyanide				
		1635	Cyanide				
		1645	Total cyanide				
	EPA 9040B				1995	10197203	pH Electrometric Measurement
		1900	pH				
	EPA 9045C				1995	10198400	Soil and Waste pH
		1900	pH				
	EPA 9214				1996	10206403	Potentiometric Determination of Fluoride in Aqueous Samples with Ion-Selective Electrode
		1730	Fluoride				

