



OREGON

Environmental Laboratory Accreditation Program



ORELAP Fields of Accreditation

ORELAP ID: WA100006

EPA CODE: WA00037

Certificate: WA100006 - 012

Analytical Resources Inc.

4611 S. 134th Place, Suite 100

Tukwila, WA 98168-3240

Issue Date: 5/11/2019 Expiration Date: 5/12/2020

As of 5/11/2019 this list supersedes all previous lists for this certificate number.

Method	Parameter	Method	Parameter
Solids EPA 8270D SIM	5895	Dibenz(a,h) anthracene	
	5905	Dibenzofuran	
	5913	Dibutyltin	
	1202	Dibutyltin dichloride	
	6265	Fluoranthene	
	6270	Fluorene	
	6315	Indeno(1,2,3-cd) pyrene	
	1206	Monobutyltin	
	5005	Naphthalene	
	6608	Perylene	
	6615	Phenanthrene	
	6665	Pyrene	
	1209	Tetrabutyltin	
	1213	Tributyltin	
1203	Tributyltin chloride		
EPA 8290A		10187403	Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS
	9516	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	
	9519	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	
	9420	1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-hpcdf)	
	9426	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-hpcdd)	
	9423	1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-hpcdf)	
	9471	1,2,3,4,7,8-Hexachlorodibenzofuran (1,2,3,4,7,8-Hxcdf)	
	9453	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-Hxcdd)	
	9474	1,2,3,6,7,8-Hexachlorodibenzofuran (1,2,3,6,7,8-Hxcdf)	
	9456	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,6,7,8-Hxcdd)	
	9477	1,2,3,7,8,9-Hexachlorodibenzofuran (1,2,3,7,8,9-Hxcdf)	
	9459	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9-Hxcdd)	
	9543	1,2,3,7,8-Pentachlorodibenzofuran (1,2,3,7,8-Pecdf)	
	9540	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-Pecdd)	
	9480	2,3,4,6,7,8-Hexachlorodibenzofuran	
	9549	2,3,4,7,8-Pentachlorodibenzofuran	
	9618	2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)	



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Solids EPA 8290A	9612	2,3,7,8-Tetrachlorodibenzofuran	
	9438	Hpcdd, total	
	9444	Hpcdf, total	
	9468	Hxcdd, total	
	9483	Hxcdf, total	
	9555	Pecdd, total	
	9552	Pecdf, total	
	9609	TCDD, total	
	9615	TCDF, total	
EPA 9010C		10243002	Total and Amenable Cyanide by Distillation and UV-Vis
	1510	Amenable cyanide	
	1645	Total cyanide	
EPA 9013		10193609	Cyanide Extraction Procedure for Solids and Oils
	8031	Extraction/Preparation	
EPA 9014		10193803	Titrimetric and Manual Spectrophotometric Determinative Methods for Cyanide
	1510	Amenable cyanide	
	1635	Cyanide	
	1645	Total cyanide	
EPA 9030B		10195605	Acid-Soluble and Acid-Insoluble sulfides: Distillation
	2005	Sulfide	
EPA 9034		10196006	Titrimetric Procedure for Acid-Soluble and Acid-Insoluble Sulfides
	2005	Sulfide	
EPA 9045D		10244607	Soil and Waste pH
	1900	pH	
EPA 9056A		10199607	Determination of Inorganic Anions by Ion Chromatography
	1540	Bromide	
	1575	Chloride	
	1730	Fluoride	
	1810	Nitrate as N	
	1840	Nitrite as N	
	1870	Orthophosphate as P	
	2000	Sulfate	
EPA 9065		10200405	Phenolics (Spectrophotometric, Manual 4-AAP with Distillation)
	1905	Total phenolics	
EPA 9071B		10201602	Oil and Grease Extraction Method for sludge and sediment samples
	1860	Oil & Grease	



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Solids			
EPA 9080		10203200	Cation-Exchange Capacity of Soils (Ammonium Acetate)
	1560	Cation exchange capacity	
EPA 9214		10206403	Potentiometric Determination of Fluoride in Aqueous Samples with Ion-Selective Electrode
	1730	Fluoride	
NWTPH-Dx		90018409	Oregon DEQ TPH Diesel Range
	9369	Diesel range organics (DRO)	
	9488	Jet Fuel	
	9499	Motor Oil	
	2050	Total Petroleum Hydrocarbons (TPH)	
NWTPH-GX (GC/MS)		90018658	Oregon DEQ TPH Gasoline Range Organics by GC/MS Purge & Trap
	9408	Gasoline range organics (GRO)	
NWTPH-HCID		90013200	Oregon DEQ Total Petroleum Hydrocarbon ID
	2050	Total Petroleum Hydrocarbons (TPH)	
PLUMB 1981		60006259	Extraction/Preparation
	8031	Extraction/Preparation	
Puget Sound Estuary Program (PSEP): Conventional Sediment Variables		60006408	PSEP: Organotins, TOC, and Sulfide
	1201	Butyltin trichloride	
	5913	Dibutyltin	
	1202	Dibutyltin dichloride	
	1206	Monobutyltin	
	2005	Sulfide	
	1209	Tetrabutyltin	
	2040	Total organic carbon	
	1213	Tributyltin	
	1203	Tributyltin chloride	
SM 2510 B-2011		20048617	Conductivity by Probe
	1610	Conductivity	
SM 2540 B-2011 2011		20049416	Total Solids Dried at 103 - 105C
	1950	Residue-total	
SM 2540 E-2011 2011		20051596	Fixed & Volatile Solids Ignited at 550 C
	1725	Total, fixed, and volatile residue	
SM 2540 G-2011 online		20005270	Total, Fixed, and Volatile Solids
	1725	Total, fixed, and volatile residue	
SM 2580 B-2011		20054062	Oxidation-Reduction Potential Measurement in Clean Water
	1871	O-R Potential	



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SM 3500-Cr B-2011	1040	20066266	Chromium by Colorimetric Method
	1040		Chromium
SM 3500-Fe B-2011	1070	20069016	Iron by Phenanthroline Method
	1070		Iron
SM 4110 B-2011	1540	20076919	Anions by Ion Chromatography with Chemical Suppression of Eluent
	1575		
	1730		
	1810		
	1820		
	1840		
	1870		
	2000		
SM 4500-CN E-2011 2011	1645	20096428	Cyanide by Colorimetric Method
	1645		Total cyanide
SM 4500-CN ⁻ C-2011	1645	20065663	Cyanide (Total) After Distillation
	1645		Total cyanide
SM 4500-CN ⁻ I-2011	2074	20098026	Weak Acid Dissociable Cyanide
	2074		Weak Acid Dissociable Cyanide
SM 4500-F ⁻ C-2011 online	1730	20102414	Fluoride by Ion Selective Electrode
	1730		Fluoride
SM 4500-H ⁺ B-2011	1900	20105220	pH - Electrometric Measurement
	1900		pH
SM 4500-NH ₃ D-2011 online	1515	20109415	Ammonia Nitrogen by Selective Ion Probe
	1515		Ammonia as N
SM 4500-NH ₃ H-2011 online	1515	20112214	Ammonia Nitrogen by Flow Injection Analysis
	1515		Ammonia as N
SM 4500-NO ₃ ⁻ I-2011	1810	20118574	Nitrate by Cadmium Reduction Flow Injection
	1840		
	1825		
	1825		
SM 4500-Norg D-2011	1795	20120289	Organic Nitrogen by Block Digestion and Flow Injection Analysis
	1795		Kjeldahl nitrogen - total
SM 4500-P B5-2011	1910	20123368	Phosphorus by Persulfate Digestion Method
	1910		Phosphorus, total



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Solids	SM 4500-P E-2011	20124225	Phosphorus by Ascorbic Acid Method
	1870 Orthophosphate as P		
	1910 Phosphorus, total		
SM 4500-S2 F-2011	20126663	Sulfide by Iodometric Method	
2005 Sulfide			
SM 4500-S2 ⁻ D-2011 online	20125864	Sulfide by Methylene Blue Method	
2005 Sulfide			
SM 4500-SO3 ⁻ B-2011	20130636	Sulfite by Iodometric Method	
2015 Sulfite-SO3			
SM 4500-SO4 G-2011	20134412	Sulfate - Methylthymol Blue Flow Injection Analysis	
2000 Sulfate			
SM 5310 B-2011 2011	20137820	TOC by High-Temperature Combustion Method	
2040 Total organic carbon			
SM 5520 B-2011	20141666	Oil and Grease by Partition-Gravimetric Method	
1803 n-Hexane Extractable Material (O&G)			
SM 5520 D-2005 SM 5520 D-2005	20142409	Oil and Grease by Soxhlet Extraction Method	
1860 Oil & Grease			
SM 5520 E-05 online	20142807	Oil and Grease by Extraction Method for Sludge Samples	
1860 Oil & Grease			
SM 5520 F-2011	20143413	Oil and Grease Hydrocarbons	
1803 n-Hexane Extractable Material (O&G)			
1860 Oil & Grease			
SM 5520 G-2011	20143617	Oil and Grease by Solid-Phase, Partition-Gravimetric Method	
1803 n-Hexane Extractable Material (O&G)			
1860 Oil & Grease			
SM 5530 D-2005	20143764	Phenols by Direct Photometric Method	
1905 Total phenolics			
WA EPH	60015001	Extractable Petroleum Hydrocarbons	
6220	1,2-Diphenylhydrazine		
6211	EPH Aliphatic >C10-C12		
6212	EPH Aliphatic >C12-C16		
6214	EPH Aliphatic >C16-C21		
6216	EPH Aliphatic >C21-C34		
6222	EPH Aliphatic C9-C18		
6224	EPH Aromatic >C10-C12		
6226	EPH Aromatic >C12-C16		
6228	EPH Aromatic >C16-C21		



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Solids

WA EPH	6236	EPH Aromatic C8-C10	
WA VPH			60015056 Volatile Petroleum Hydrocarbons (VPH) by GC/PID Purge & Trap
5300		VPH Aliphatic >C10-C12	
5301		VPH Aliphatic >C6-C8	
5302		VPH Aliphatic >C8-C10	
5303		VPH Aliphatic C5-C6	
5308		VPH Aromatic >C10-C12	
5309		VPH Aromatic >C12-C13	
5310		VPH Aromatic >C8-C10	

