



# OREGON

## Environmental Laboratory Accreditation Program



NELAP Recognized

**Friedman & Bruya, Inc**

**WA100005**

3012 16th Avenue West

Seattle, WA 98119

IS GRANTED APPROVAL BY ORELAP UNDER THE 2009 TNI STANDARDS, TO PERFORM ANALYSES ON ENVIRONMENTAL SAMPLES IN MATRICES AS LISTED BELOW :

<i>Air</i>	<i>Drinking Water</i>	<i>Non Potable Water</i>	<i>Solids and Chem. Waste</i>	<i>Tissue</i>
Chemistry		Chemistry	Chemistry	

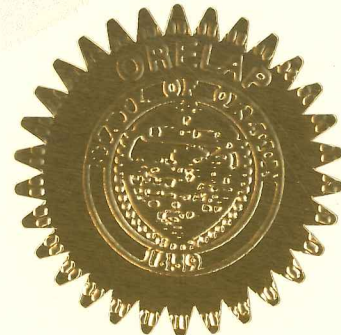
AND AS RECORDED IN THE LIST OF APPROVED ANALYTES, METHODS, ANALYTICAL TECHNIQUES, AND FIELDS OF TESTING ISSUED CONCURRENTLY WITH THIS CERTIFICATE AND REVISED AS NECESSARY.

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.

*Lizbeth Garcia*

Lizbeth Garcia  
Oregon State Public Health Laboratory  
ORELAP Assessor  
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EFFECTIVE DATE : 04/6/2018

EXPIRATION DATE : 04/5/2019

Certificate No : WA100005 - 014





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### ORELAP Fields of Accreditation

ORELAP ID: WA100005

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EPA CODE: WA00112

3012 16th Avenue West

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Issue Date: 4/6/2018 Expiration Date: 4/5/2019

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MATRIX	Reference	Code	Analyte	Code	Description
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### Air

	EPA TO-15			10248803	VOCs collected in Canisters by GC/MS
		5160	1,1,1-Trichloroethane		
		5110	1,1,2,2-Tetrachloroethane		
		5195	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		
		5165	1,1,2-Trichloroethane		
		4630	1,1-Dichloroethane		
		4640	1,1-Dichloroethylene		
		5182	1,2,3-Trimethylbenzene		
		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)		
		4937	2-Methylbutadiene (Isoprene)		
		4995	4-Methyl-2-pentanone (MIBK)		
		4300	Acetaldehyde		
		4315	Acetone		
		4320	Acetonitrile		
		4325	Acrolein (Propenal)		
		4340	Acrylonitrile		
		3792	APH Aliphatics C5-C8		
		3793	APH Aliphatics C9-C12		
		3794	APH Aromatics C9-C10		
		4375	Benzene		
		5635	Benzyl chloride		
		4395	Bromodichloromethane		
		4400	Bromoform		
		4450	Carbon disulfide		



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Air	EPA TO-15			
		4455	Carbon tetrachloride	
		4475	Chlorobenzene	
		4575	Chlorodibromomethane	
		4577	Chlorodifluoromethane (Freon-22)	
		4485	Chloroethane (Ethyl chloride)	
		4505	Chloroform	
		4645	cis-1,2-Dichloroethylene	
		4680	cis-1,3-Dichloropropene	
		4555	Cyclohexane	
		4562	Cyclopentane	
		4625	Dichlorodifluoromethane (Freon-12)	
		4750	Ethanol	
		4765	Ethylbenzene	
		4835	Hexachlorobutadiene	
		4870	Iodomethane (Methyl iodide)	
		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)	
		5005	Naphthalene	
		4425	n-Butyl alcohol (1-Butanol, n-Butanol)	
		4855	n-Hexane	
		5028	n-Pentane	
		5250	o-Xylene	
		5100	Styrene	
		5115	Tetrachloroethylene (Perchloroethylene)	
		5140	Toluene	
		4700	trans-1,2-Dichloroethylene	
		4685	trans-1,3-Dichloropropylene	
		5170	Trichloroethene (Trichloroethylene)	
		5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	
		5225	Vinyl acetate	
		5235	Vinyl chloride	
	EPA TO-15 GC/MS SIM			10248858 VOCs collected in Canisters by GC/MS SIM
		5160	1,1,1-Trichloroethane	
		5110	1,1,2,2-Tetrachloroethane	
		5165	1,1,2-Trichloroethane	
		4630	1,1-Dichloroethane	
		4640	1,1-Dichloroethylene	



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Air	EPA TO-15 GC/MS SIM	4585	1,2-Dibromoethane (EDB, Ethylene dibromide)		
		4610	1,2-Dichlorobenzene		
		4635	1,2-Dichloroethane (Ethylene dichloride)		
		4655	1,2-Dichloropropane		
		9318	1,3-Butadiene		
		4615	1,3-Dichlorobenzene		
		4620	1,4-Dichlorobenzene		
		4375	Benzene		
		5635	Benzyl chloride		
		4395	Bromodichloromethane		
		4575	Chlorodibromomethane		
		4485	Chloroethane (Ethyl chloride)		
		4505	Chloroform		
		4645	cis-1,2-Dichloroethylene		
		4765	Ethylbenzene		
		4835	Hexachlorobutadiene		
		5240	m+p-xylene		
		5005	Naphthalene		
		5250	o-Xylene		
		5115	Tetrachloroethylene (Perchloroethylene)		
		5140	Toluene		
		4700	trans-1,2-Dichloroethylene		
		5170	Trichloroethene (Trichloroethylene)		
		5235	Vinyl chloride		
	EPA TO-17			10312206	Determination of Volatile Organic Compounds in Ambient Air Using Active Sampling Onto Sorbent Tubes
		6380	1-Methylnaphthalene		
		6385	2-Methylnaphthalene		
		4375	Benzene		
		4765	Ethylbenzene		
		4895	Isopropyl alcohol (2-Propanol, Isopropanol)		
		5240	m+p-xylene		
		5005	Naphthalene		
		5250	o-Xylene		
		5140	Toluene		
		5260	Xylene (total)		

### Drinking Water

EPA 524.2 4.1		10088809	Volatile Organic Compounds GC/MS Capillary Column
	9375	Di-isopropylether (DIPE)	
	4770	Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	



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EPA 524.2 4.1	5000	Methyl tert-butyl ether (MTBE)
	4370	T-amylmethylether (TAME)
	4420	tert-Butyl alcohol

#### Non-Potable Water

AK101 GRO	90015002	Determination of Gasoline Range Organics - Alaska Department of Environmental Conservation
	9408	Gasoline range organics (GRO)
AK102 DRO	90015206	Determination of Diesel Range Organics - Alaska Department of Environmental Conservation
	9369	Diesel range organics (DRO)
AK103 RRO	90015400	Determination of Residual Range Organics - Alaska Department of Environmental Conservation
	9499	Motor Oil
EPA 1631E	10237204	Mercury in Water by Oxidation, Purge & Trap, and Cold Vapor Atomic Fluorescence
	1095	Mercury
EPA 200.8 5.5	10014809	Metals by ICP-MS
	1005	Antimony
	1010	Arsenic
	1015	Barium
	1020	Beryllium
	1030	Cadmium
	1040	Chromium
	1050	Cobalt
	1055	Copper
	1070	Iron
	1075	Lead
	1090	Manganese
	1095	Mercury
	1100	Molybdenum
	1105	Nickel
	1140	Selenium
	1150	Silver
	1165	Thallium
	1185	Vanadium
	1190	Zinc
EPA 3005A	10133207	Acid Digestion of waters for Total Recoverable or Dissolved Metals
	8031	Extraction/Preparation
EPA 3510C	10138202	Separatory Funnel Liquid-liquid extraction
	9822	Extraction/Preparation



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### Non-Potable Water

EPA 3630C		10146802	Silica gel cleanup
	9822	Extraction/Preparation	
EPA 5030C		10284603	Purge-and-Trap for Aqueous Samples
	9822	Extraction/Preparation	
EPA 6020A 1		10156419	Inductively Coupled Plasma -Mass Spectrometry
	1005	Antimony	
	1010	Arsenic	
	1015	Barium	
	1020	Beryllium	
	1030	Cadmium	
	1040	Chromium	
	1050	Cobalt	
	1055	Copper	
	1070	Iron	
	1075	Lead	
	1090	Manganese	
	1095	Mercury	
	1100	Molybdenum	
	1105	Nickel	
	1140	Selenium	
	1150	Silver	
	1165	Thallium	
	1185	Vanadium	
	1190	Zinc	
EPA 8011		10173009	1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and GC/ECD
	4585	1,2-Dibromoethane (EDB, Ethylene dibromide)	
EPA 8015D		10305609	Nonhalogenated Organics Using GC/FID
	9369	Diesel range organics (DRO)	
	9408	Gasoline range organics (GRO)	
EPA 8021B		10174808	Aromatic and Halogenated Volatiles by GC with PID and/or ECD Purge & Trap
	4375	Benzene	
	4765	Ethylbenzene	
	5140	Toluene	
	5260	Xylene (total)	
EPA 8081B		10178800	Organochlorine Pesticides by GC/ECD
	7355	4,4'-DDD	
	7360	4,4'-DDE	
	7365	4,4'-DDT	



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EPA 8081B	7025	Aldrin	
	7110	alpha-BHC (alpha-Hexachlorocyclohexane)	
	7115	beta-BHC (beta-Hexachlorocyclohexane)	
	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)	
	7685	Heptachlor	
	7690	Heptachlor epoxide	
7810	Methoxychlor		
8250	Toxaphene (Chlorinated camphene)		
7245	trans-chlordane (gamma-Chlordane)		
EPA 8082A			10179201 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)	
	8912	Aroclor-1262 (PCB-1262)	
	8913	Aroclor-1268 (PCB-1268)	
EPA 8260C			10307003 Volatile Organics: GC/MS (capillary column)
	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	





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EPA 8260C	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
	4615	1,3-Dichlorobenzene
	4660	1,3-Dichloropropane
	4620	1,4-Dichlorobenzene
	4665	2,2-Dichloropropane
	4410	2-Butanone (Methyl ethyl ketone, MEK)
	4535	2-Chlorotoluene
	4860	2-Hexanone (MBK)
	4540	4-Chlorotoluene
	4910	4-Isopropyltoluene (p-Cymene)
	4995	4-Methyl-2-pentanone (MIBK)
	4315	Acetone
	4375	Benzene
	4385	Bromobenzene
	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
	4595	Dibromomethane (Methylene bromide)
	4625	Dichlorodifluoromethane (Freon-12)
	9375	Di-isopropylether (DIPE)
	4750	Ethanol
	4765	Ethylbenzene
	4770	Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)
	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)
	5005	Naphthalene





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EPA 8260C	4855	n-Hexane		
	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		
	4700	trans-1,2-Dichloroethylene		
	4685	trans-1,3-Dichloropropylene		
	5170	Trichloroethene (Trichloroethylene)		
	5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)		
	5235	Vinyl chloride		
EPA 8260C SIM EPA 8260C SIM			10307105	Volatile Organic Compounds by GC/MS-SIM
	4735	1,4-Dioxane (1,4- Diethyleneoxide)		
EPA 8270D			10186002	Semivolatile Organic compounds by GC/MS
	5155	1,2,4-Trichlorobenzene		
	4610	1,2-Dichlorobenzene		
	6221	1,2-Diphenylhydrazine		
	4615	1,3-Dichlorobenzene		
	4620	1,4-Dichlorobenzene		
	6380	1-Methylnaphthalene		
	4659	2,2-Oxybis(1-chloropropane)		
	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		



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EPA 8270D

- 6465 3-Nitroaniline
- 5660 4-Bromophenyl phenyl ether (BDE-3)
- 5700 4-Chloro-3-methylphenol
- 5745 4-Chloroaniline
- 5825 4-Chlorophenyl phenylether
- 6470 4-Nitroaniline
- 6500 4-Nitrophenol
- 5500 Acenaphthene
- 5505 Acenaphthylene
- 5555 Anthracene
- 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)
- 5895 Dibenz(a,h) anthracene
- 5905 Dibenzofuran
- 6070 Diethyl phthalate
- 6135 Dimethyl phthalate
- 5925 Di-n-butyl phthalate
- 6200 Di-n-octyl phthalate
- 6265 Fluoranthene
- 6270 Fluorene
- 6275 Hexachlorobenzene
- 4835 Hexachlorobutadiene
- 6285 Hexachlorocyclopentadiene
- 4840 Hexachloroethane
- 6315 Indeno(1,2,3-cd) pyrene
- 6320 Isophorone
- 5005 Naphthalene
- 5015 Nitrobenzene
- 6530 n-Nitrosodimethylamine
- 6545 n-Nitrosodi-n-propylamine
- 6535 n-Nitrosodiphenylamine
- 6605 Pentachlorophenol



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### Non-Potable Water

EPA 8270D	6615	Phenanthrene	
	6625	Phenol	
	6665	Pyrene	
EPA 8270D SIM			10242509 Semivolatile Organic compounds by GC/MS Selective Ion Monitoring
	6380	1-Methylnaphthalene	
	6385	2-Methylnaphthalene	
	5500	Acenaphthene	
	5505	Acenaphthylene	
	5555	Anthracene	
	5575	Benzo(a)anthracene	
	5580	Benzo(a)pyrene	
	5590	Benzo(g,h,i)perylene	
	5600	Benzo(k)fluoranthene	
	5585	Benzo[b]fluoranthene	
	5855	Chrysene	
	5895	Dibenz(a,h) anthracene	
	6265	Fluoranthene	
	6270	Fluorene	
	6315	Indeno(1,2,3-cd) pyrene	
	5005	Naphthalene	
	6605	Pentachlorophenol	
	6615	Phenanthrene	
	6665	Pyrene	
EPA RSK-175 (GC-FID)			10212905 Methane, Ethane, and Ethene in water by Headspace GC/FID
	4747	Ethane	
	4752	Ethene	
	4926	Methane	
NWTPH-Dx			90018409 Oregon DEQ TPH Diesel Range
	9369	Diesel range organics (DRO)	
NWTPH-Gx			90018603 Oregon DEQ TPH Gasoline Range Organics by GC/FID-PID Purge & Trap
	9408	Gasoline range organics (GRO)	
SM 2340 B 20th ED			20046202 Hardness by calculation
	1750	Hardness	

### Solids

AK101 GRO			90015002 Determination of Gasoline Range Organics - Alaska Department of Environmental Conservation
	9408	Gasoline range organics (GRO)	



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Method	Parameter	Method	Description
AK102 DRO		90015206	Determination of Diesel Range Organics - Alaska Department of Environmental Conservation
	9369 Diesel range organics (DRO)		
AK103 RRO		90015400	Determination of Residual Range Organics - Alaska Department of Environmental Conservation
	9499 Motor Oil		
EPA 1631E		10237204	Mercury in Water by Oxidation, Purge & Trap, and Cold Vapor Atomic Fluorescence
	1095 Mercury		
EPA 200.8 5.5		10014809	Metals by ICP-MS
	1005 Antimony		
	1010 Arsenic		
	1015 Barium		
	1020 Beryllium		
	1030 Cadmium		
	1040 Chromium		
	1050 Cobalt		
	1055 Copper		
	1075 Lead		
	1090 Manganese		
	1095 Mercury		
	1100 Molybdenum		
	1105 Nickel		
	1140 Selenium		
1150 Silver			
1165 Thallium			
1185 Vanadium			
1190 Zinc			
EPA 3050B		10135601	Acid Digestion of Sediments, Sludges, and soils
	8031 Extraction/Preparation		
EPA 3550C		10142004	Ultrasonic Extraction
	9822 Extraction/Preparation		
EPA 3630C		10146802	Silica gel cleanup
	9822 Extraction/Preparation		
EPA 5035		10154004	Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples
	8031 Extraction/Preparation		
EPA 6020A 1		10156419	Inductively Coupled Plasma -Mass Spectrometry
	1005 Antimony		





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Seattle, WA 98119

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Field	Method	Parameter	Method	Parameter
Solids	EPA 6020A 1	1010	Arsenic	
		1015	Barium	
		1020	Beryllium	
		1030	Cadmium	
		1040	Chromium	
		1050	Cobalt	
		1055	Copper	
		1075	Lead	
		1090	Manganese	
		1095	Mercury	
		1100	Molybdenum	
		1105	Nickel	
		1140	Selenium	
		1150	Silver	
		1165	Thallium	
		1185	Vanadium	
1190	Zinc			
EPA 8015D		10305609	Nonhalogenated Organics Using GC/FID	
	9369	Diesel range organics (DRO)		
	9408	Gasoline range organics (GRO)		
EPA 8021B		10174808	Aromatic and Halogenated Volatiles by GC with PID and/or ECD Purge & Trap	
	4375	Benzene		
	4765	Ethylbenzene		
	5140	Toluene		
	5260	Xylene (total)		
EPA 8081B		10178800	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)		
	7240	cis-chlordane (alpha-Chlordane)		
	7105	delta-BHC		
	7470	Dieldrin		
	7510	Endosulfan I		
	7515	Endosulfan II		
	7520	Endosulfan sulfate		
	7540	Endrin		
	7530	Endrin aldehyde		



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Field	EPA Code	Method	Parameter	
Solids	EPA 8081B	7535	Endrin ketone	
		7120	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	
		7685	Heptachlor	
		7690	Heptachlor epoxide	
		7810	Methoxychlor	
		8250	Toxaphene (Chlorinated camphene)	
		7245	trans-chlordane (gamma-Chlordane)	
		EPA 8082A	10179201	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)			
8912	Aroclor-1262 (PCB-1262)			
8913	Aroclor-1268 (PCB-1268)			
EPA 8260C	10307003	Volatile Organics: GC/MS (capillary column)		
	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		
	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		
	4615	1,3-Dichlorobenzene		
	4660	1,3-Dichloropropane		
	4620	1,4-Dichlorobenzene		
	4735	1,4-Dioxane (1,4- Diethyleneoxide)		
	4665	2,2-Dichloropropane		
	4410	2-Butanone (Methyl ethyl ketone, MEK)		



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#### Solids

EPA 8260C

- 4535 2-Chlorotoluene
- 4860 2-Hexanone (MBK)
- 4540 4-Chlorotoluene
- 4910 4-Isopropyltoluene (p-Cymene)
- 4995 4-Methyl-2-pentanone (MIBK)
- 4315 Acetone
- 4375 Benzene
- 4385 Bromobenzene
- 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
- 4595 Dibromomethane (Methylene bromide)
- 4625 Dichlorodifluoromethane (Freon-12)
- 9375 Di-isopropylether (DIPE)
- 4750 Ethanol
- 4765 Ethylbenzene
- 4770 Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)
- 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)
- 5005 Naphthalene
- 4855 n-Hexane
- 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
- 4700 trans-1,2-Dichloroethylene
- 4685 trans-1,3-Dichloropropylene



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Field	EPA Code	Method	Parameter
Solids	EPA 8260C	5170	Trichloroethene (Trichloroethylene)
		5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)
		5235	Vinyl chloride
Semivolatile Organic compounds by GC/MS	EPA 8270D	10186002	Semivolatile Organic compounds by GC/MS
		5155	1,2,4-Trichlorobenzene
		4610	1,2-Dichlorobenzene
		6221	1,2-Diphenylhydrazine
		4615	1,3-Dichlorobenzene
		4620	1,4-Dichlorobenzene
		6380	1-Methylnaphthalene
		4659	2,2-Oxybis(1-chloropropane)
		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
		6470	4-Nitroaniline
6500	4-Nitrophenol		
5500	Acenaphthene		
5505	Acenaphthylene		
5555	Anthracene		
5575	Benzo(a)anthracene		
5580	Benzo(a)pyrene		
5590	Benzo(g,h,i)perylene		
5600	Benzo(k)fluoranthene		





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### Solids

EPA 8270D

- 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)
- 5895 Dibenz(a,h) anthracene
- 5905 Dibenzofuran
- 6070 Diethyl phthalate
- 6135 Dimethyl phthalate
- 5925 Di-n-butyl phthalate
- 6200 Di-n-octyl phthalate
- 6265 Fluoranthene
- 6270 Fluorene
- 6275 Hexachlorobenzene
- 4835 Hexachlorobutadiene
- 6285 Hexachlorocyclopentadiene
- 4840 Hexachloroethane
- 6315 Indeno(1,2,3-cd) pyrene
- 6320 Isophorone
- 5005 Naphthalene
- 5015 Nitrobenzene
- 6530 n-Nitrosodimethylamine
- 6545 n-Nitrosodi-n-propylamine
- 6535 n-Nitrosodiphenylamine
- 6605 Pentachlorophenol
- 6615 Phenanthrene
- 6625 Phenol
- 6665 Pyrene

EPA 8270D  
SIM

10242509

Semivolatile Organic compounds by  
GC/MS Selective Ion Monitoring

- 6380 1-Methylnaphthalene
- 6385 2-Methylnaphthalene
- 5500 Acenaphthene
- 5505 Acenaphthylene
- 5555 Anthracene
- 5575 Benzo(a)anthracene
- 5580 Benzo(a)pyrene
- 5590 Benzo(g,h,i)perylene
- 5600 Benzo(k)fluoranthene



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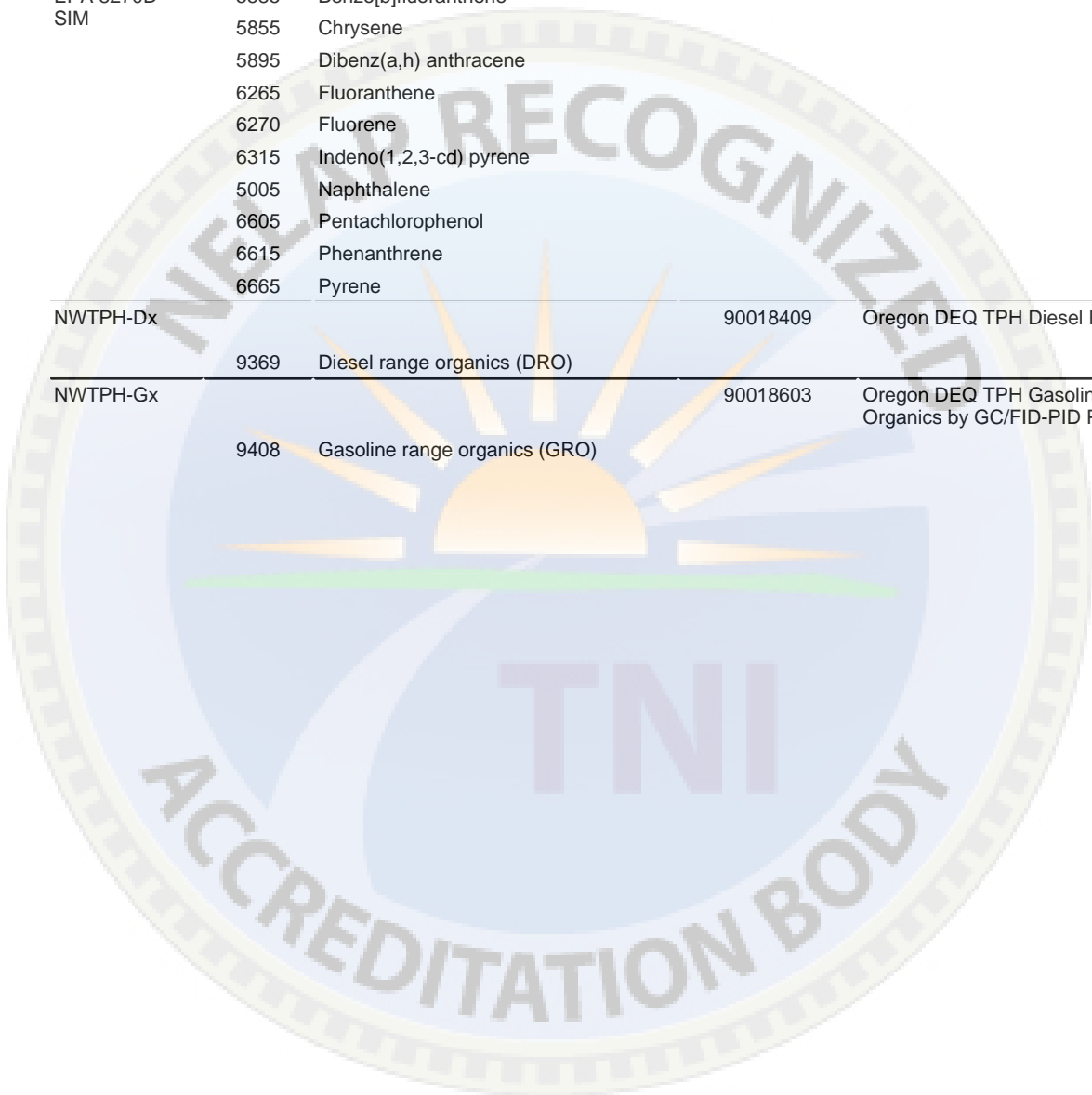
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Seattle, WA 98119

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<b>Solids</b>			
EPA 8270D	5585	Benzo[b]fluoranthene	
SIM	5855	Chrysene	
	5895	Dibenz(a,h) anthracene	
	6265	Fluoranthene	
	6270	Fluorene	
	6315	Indeno(1,2,3-cd) pyrene	
	5005	Naphthalene	
	6605	Pentachlorophenol	
	6615	Phenanthrene	
	6665	Pyrene	
NWTPH-Dx			90018409 Oregon DEQ TPH Diesel Range
	9369	Diesel range organics (DRO)	
NWTPH-Gx			90018603 Oregon DEQ TPH Gasoline Range Organics by GC/FID-PID Purge & Trap
	9408	Gasoline range organics (GRO)	





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MATRIX	Reference	Code	Analyte	Code	Description
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### Air

EPA TO-15				10248803	VOCs collected in Canisters by GC/MS
		4563	Cyclopentene		
		9408	Gasoline range organics (GRO)		
EPA TO-17				10312206	Determination of Volatile Organic Compounds in Ambient Air Using Active Sampling Onto Sorbent Tubes
		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		
		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		
		4615	1,3-Dichlorobenzene		
		4660	1,3-Dichloropropane		
		4620	1,4-Dichlorobenzene		
		4665	2,2-Dichloropropane		
		4410	2-Butanone (Methyl ethyl ketone, MEK)		
		4535	2-Chlorotoluene		
		4860	2-Hexanone (MBK)		
		4540	4-Chlorotoluene		
		4910	4-Isopropyltoluene (p-Cymene)		
		4995	4-Methyl-2-pentanone (MIBK)		
		4385	Bromobenzene		
		4395	Bromodichloromethane		
		4400	Bromoform		
		4455	Carbon tetrachloride		
		4475	Chlorobenzene		
		4575	Chlorodibromomethane		
		4505	Chloroform		



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Air	EPA TO-17	4645	cis-1,2-Dichloroethylene
		4680	cis-1,3-Dichloropropene
		4595	Dibromomethane (Methylene bromide)
		4625	Dichlorodifluoromethane (Freon-12)
		4835	Hexachlorobutadiene
		4900	Isopropylbenzene (Cumene)
		5000	Methyl tert-butyl ether (MTBE)
		4855	n-Hexane
		5090	n-Propylbenzene
		4440	sec-Butylbenzene
		5100	Styrene
		4420	tert-Butyl alcohol
		4445	tert-Butylbenzene
		5115	Tetrachloroethylene (Perchloroethylene)
		4700	trans-1,2-Dichloroethylene
		4685	trans-1,3-Dichloropropylene
		5170	Trichloroethene (Trichloroethylene)
		5235	Vinyl chloride

### Non-Potable Water

EPA 6020B 2	10156420	Inductively Coupled Plasma-Mass Spectrometry
1005		Antimony
1010		Arsenic
1015		Barium
1020		Beryllium
1030		Cadmium
1040		Chromium
1050		Cobalt
1055		Copper
1070		Iron
1075		Lead
1090		Manganese
1095		Mercury
1100		Molybdenum
1105		Nickel
1140		Selenium
1150		Silver
1165		Thallium
1185		Vanadium
1190		Zinc





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### Solids

EPA 6020B 2

10156420

Inductively Coupled Plasma-Mass Spectrometry

- 1005 Antimony
- 1010 Arsenic
- 1015 Barium
- 1020 Beryllium
- 1030 Cadmium
- 1040 Chromium
- 1050 Cobalt
- 1055 Copper
- 1070 Iron
- 1075 Lead
- 1090 Manganese
- 1095 Mercury
- 1100 Molybdenum
- 1105 Nickel
- 1140 Selenium
- 1150 Silver
- 1165 Thallium
- 1185 Vanadium
- 1190 Zinc

