



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc.  
has assessed the Organization of:

***Fremont Analytical, Inc.***  
***3600 Fremont Avenue North, Seattle, WA 98103***

*(Hereinafter called the Organization) and hereby declares that Organization has met the requirements of ISO/IEC 17025:2017 General Requirements for the competence of Testing and Calibration Laboratories and the United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP) requirements identified within the DoD/DOE Quality Systems Manual (DoD/DOE QSM) Version 5.4 October 2021 and is accredited in accordance with the:*

### **United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP)**

This accreditation demonstrates the technical competence for the defined scope and the operation of a laboratory quality management system  
(as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

### ***Environmental Testing*** ***(As detailed in the supplement)***

Accreditation claims for such activities shall only be made from the addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation Body's duty to observe and comply with the said rules.

For PJLA

*Initial Accreditation Date:*

April 10, 2017

*Issue Date:*

September 19, 2022

*Expiration Date*

September 19, 2024

Tracy Szorszen  
President

*Accreditation No:*

79636

*Certificate No:*

L22-666

Perry Johnson Laboratory  
Accreditation, Inc. (PJLA)  
755 W. Big Beaver, Suite 1325  
Troy, Michigan 48084

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: [www.pjllabs.com](http://www.pjllabs.com)



# Certificate of Accreditation: Supplement

## Fremont Analytical, Inc.

3600 Fremont Avenue North, Seattle, WA 98103  
Contact Name: Alexander Kegley Phone: 206-352-3790

Accreditation is granted to the facility to perform the following testing:

Code

### General Chemistry

<b>ASTM D422 by Physical</b>	30030854
<b>Solid</b>	
Grain size	6118
<b>EPA 1664A by Physical</b>	10127807
<b>Aqueous</b>	
n-Hexane Extractable Material (HEM) Oil & Grease (O&G)	1803
<b>EPA 365.3 by Discrete Analyzer (Automated Colorimetric)</b>	10070801
<b>Aqueous</b>	
Phosphorous (Total)	1910
<b>EPA 9060A by TOC Analyzer</b>	10244823
<b>Solid</b>	
Total Organic Carbon (TOC)	2040
<b>SM 4500 CN E by Discrete Analyzer (Automated Colorimetric)</b>	20096428
<b>Aqueous</b>	
Cyanide (Total)	1645
<b>Solid</b>	
Cyanide (Total)	1645
<b>SM 4500 NH3 E (21st edition) by Ion Selective Electrode (ISE)</b>	20113013
<b>Aqueous</b>	
Ammonia (as N)	1515
<b>SM 4500 NH3 G (21st edition) by Discrete Analyzer (Automated Colorimetry)</b>	20111415
<b>Aqueous</b>	
Ammonia (as N)	1515
<b>SM 5310C by TOC Analyzer (Chemical Oxidation/IR)</b>	20138823
<b>Aqueous</b>	
Total Organic Carbon (TOC)	2040
<b>Inorganic</b>	
<b>EPA 1631E by Cold Vapor Atomic Fluorescence Spectrophotometry (CVAFS)</b>	10237204
<b>Aqueous</b>	
Mercury (Low Level)	1095
<b>EPA 200.8 by Inductively Coupled Plasma Mass Spectrometry (ICP/MS)</b>	10014605
<b>Aqueous</b>	
Aluminum	1000
Antimony	1005
Arsenic	1010
Barium	1015
Beryllium	1020
Boron	1025



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### Inorganic

<b>EPA 200.8 by Inductively Coupled Plasma Mass Spectrometry (ICP/MS)</b>	10014605
<b>Aqueous</b>	
Cadmium	1030
Calcium	1035
Chromium	1040
Cobalt	1050
Copper	1055
Iron	1070
Lead	1075
Magnesium	1085
Manganese	1090
Molybdenum	1100
Nickel	1105
Potassium	1125
Selenium	1140
Silver	1150
Sodium	1155
Strontium	1160
Thallium	1165
Tin	1175
Titanium	1180
Vanadium	1185
Zinc	1190
<b>EPA 245.1 by Cold Vapor Atomic Absorption Spectrophotometry (CVAAS)</b>	10036609
<b>Aqueous</b>	
Mercury	1095
<b>EPA 300.0 by Ion Chromatography (IC)</b>	10053200
<b>Aqueous</b>	
Bromide	1540
Chloride	1575
Fluoride	1730
Nitrate (as N)	1810
Nitrate + Nitrite (as N)	1820
Nitrite (as N)	1840
Sulfate	2000
<b>Solid</b>	
Bromide	1540
Chloride	1575



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### Inorganic

<b>EPA 300.0 by Ion Chromatography (IC)</b>	10053200
<b>Solid</b>	
Fluoride	1730
Nitrate (as N)	1810
Nitrate + Nitrite (as N)	1820
Nitrite (as N)	1840
Orthophosphate (as P)	1870
Sulfate	2000
<b>EPA 6020B by Inductively Coupled Plasma Mass Spectrometry (ICP/MS)</b>	10156420
<b>Aqueous</b>	
Arsenic	1010
Barium	1015
Cadmium	1030
Chromium	1040
Copper	1055
Iron	1070
Lead	1075
Manganese	1090
Nickel	1105
Selenium	1140
Silver	1150
Zinc	1190
<b>Solid</b>	
Aluminum	1000
Antimony	1005
Arsenic	1010
Barium	1015
Beryllium	1020
Cadmium	1030
Calcium	1035
Chromium	1040
Cobalt	1050
Copper	1055
Iron	1070
Lead	1075
Magnesium	1085
Manganese	1090
Molybdenum	1100



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### Inorganic

<b>EPA 6020B by Inductively Coupled Plasma Mass Spectrometry (ICP/MS)</b>	10156420
<b>Solid</b>	
Nickel	1105
Phosphorous (Total)	1910
Potassium	1125
Selenium	1140
Silver	1150
Sodium	1155
Strontium	1160
Thallium	1165
Tin	1175
Titanium	1180
Vanadium	1185
Zinc	1190
<b>EPA 7196A by Colorimetry</b>	10162400
<b>Solid</b>	
Hexavalent Chromium (Cr VI)	1045
<b>EPA 7470A by Cold Vapor Atomic Absorption Spectrophotometry (CVAAS)</b>	10165807
<b>Aqueous</b>	
Mercury	1095
<b>EPA 7471 by Cold Vapor Atomic Absorption Spectrophotometry (CVAAS)</b>	10166402
<b>Solid</b>	
Mercury	1095
<b>Organic</b>	
<b>AK-101 (GRO) by Gas Chromatography Photoionization and Flame Ionization Detection (GC/PID/FID)</b>	90015002
<b>Aqueous</b>	
Total Petroleum Hydrocarbons Gasoline Range Organics (TPH GRO)	9408
<b>Solid</b>	
Total Petroleum Hydrocarbons Gasoline Range Organics (TPH GRO)	9408
<b>AK-102 (DRO) by Gas Chromatography Flame Ionization Detection (GC/FID)</b>	90015206
<b>Aqueous</b>	
Total Petroleum Hydrocarbons Diesel Range Organics (TPH DRO)	9369
<b>Solid</b>	
Total Petroleum Hydrocarbons Diesel Range Organics (TPH DRO)	9369
<b>AK-103 (RRO) by Gas Chromatography Photoionization and Flame Ionization Detection (GC/PID/FID)</b>	90015400
<b>Aqueous</b>	
Residual Range Organics (RRO)	9506



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### Organic

**AK-103 (RRO) by Gas Chromatography Photoionization and Flame Ionization Detection (GC/PID/FID)** 90015400

#### Solid

Residual Range Organics (RRO) 9506

**EPA 608.3 by Gas Chromatography Electron Capture Detector (GC/ECD)** 10296614

#### Aqueous

4,4'-DDD 7355

4,4'-DDE 7360

4,4'-DDT 7365

Aldrin 7025

alpha-BHC (a-BHC, alpha-Hexachlorocyclohexane) 7110

alpha-Chlordane (cis-Chlordane) 7240

Aroclor 1016 8880

Aroclor 1221 8885

Aroclor 1232 8890

Aroclor 1242 8895

Aroclor 1248 8900

Aroclor 1254 8905

Aroclor 1260 8910

Aroclor 1262 8912

Aroclor 1268 8913

beta-BHC (b-BHC, beta-Hexachlorocyclohexane) 7115

Chlordane (Technical) 7250

delta-BHC ( $\delta$ -BHC) 7105

Dieldrin 7470

Endosulfan I 7510

Endosulfan II 7515

Endosulfan Sulfate 7520

Endrin 7540

Endrin Aldehyde 7530

Endrin Ketone 7535

gamma-BHC ( $\gamma$ -BHC, Lindane, gamma-Hexachlorocyclohexane) 7120

Heptachlor 7685

Heptachlor Epoxide 7690

Methoxychlor 7810

Toxaphene (Chlorinated Camphene) 8250

trans-Chlordane (beta-Chlordane, gamma-Chlordane) 7972



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### Organic

#### EPA 624.1 by Gas Chromatography Mass Spectrometry (GC/MS)

10298121

#### Aqueous

1,1,1,2-Tetrachloroethane	5105
1,1,1-Trichloroethane	5160
1,1,2,2-Tetrachloroethane	5110
1,1,2-Trichloro-1,2,2-Trifluoroethane (Trichlorotrifluoroethane, Freon 113)	5185
1,1,2-Trichloroethane	5165
1,1-Dichloroethane	4630
1,1-Dichloroethylene	4640
1,1-Dichloropropene	4670
1,2,3-Trichlorobenzene	5150
1,2,3-Trichloropropane (TCP)	5180
1,2,4-Trichlorobenzene	5155
1,2,4-Trimethylbenzene	5210
1,2-Dibromo-3-Chloropropane (DBCP)	4570
1,2-Dibromoethane (EDB, Ethylene Dibromide)	4585
1,2-Dichlorobenzene	4610
1,2-Dichloroethane (Ethylene Dichloride, EDC)	4635
1,2-Dichloropropane	4655
1,3,5-Trimethylbenzene	5215
1,3-Dichlorobenzene (1,3-DCB)	4615
1,3-Dichloropropane	4660
1,4-Dichlorobenzene	4620
2-Butanone (Methyl Ethyl Ketone, MEK)	4410
2-Chloroethyl Vinyl Ether	4500
2-Chlorotoluene	4535
2-Hexanone (Methyl Butyl Ketone, MBK)	4860
4-Chlorotoluene (p-Chlorotoluene)	4540
4-Isopropyltoluene (p-Isopropyltoluene, p-Cymene)	4910
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone (MIBK), Hexone)	4995
Acetone	4315
Acrolein (Propenal)	4325
Benzene	4375
Bromobenzene	4385
Bromochloromethane	4390
Bromodichloromethane	4395
Bromoform	4400
Carbon Disulfide	4450



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#### EPA 624.1 by Gas Chromatography Mass Spectrometry (GC/MS)

10298121

#### Aqueous

Carbon Tetrachloride	4455
Chlorobenzene	4475
Chlorodibromomethane (Dibromochloromethane)	4575
Chloroethane (Ethyl Chloride)	4485
Chloroform	4505
cis-1,2-Dichloroethylene	4645
cis-1,3-Dichloropropene	4680
Dibromomethane (Methylene Bromide)	4595
Dichlorodifluoromethane (Freon 12)	4625
Ethylbenzene	4765
Ethyl-tert-Butylether (ETBE, 2-Ethoxy-2-Methylpropane)	4770
Hexachlorobutadiene	4835
Isopropyl Ether (as di-Isopropyl Ether (DIPE))	9375
Isopropylbenzene (Cumene)	4900
m,p-Xylene	5240
Methyl Bromide (Bromomethane)	4950
Methyl Chloride (Chloromethane)	4960
Methyl tert Butyl Ether (MTBE)	5000
Methylene Chloride (Dichloromethane)	4975
Naphthalene	5005
n-Butylbenzene	4435
n-Propylbenzene (1-phenylpropane)	5090
o-Xylene (1,2-Xylene)	5250
Sec-Butylbenzene	4440
Styrene	5100
tert-Amyl Methyl Ether (TAME)	4370
tert-Butyl Alcohol (TBA, 2-Methyl-2-Propanol, t-Butanol)	4420
tert-Butylbenzene	4445
Tetrachloroethylene (Perchloroethylene, PCE)	5115
Tetrahydrofuran (THF)	5120
Toluene	5140
trans-1,2-Dichloroethylene	4700
trans-1,3-Dichloropropylene	4685
Trichloroethene (TCE, Trichloroethylene)	5170
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	5175
Vinyl Acetate	5225





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<b>Organic</b>	
<b>EPA 624.1 by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10298121
<b>Aqueous</b>	
Vinyl Chloride (Chloroethene)	5235
Xylenes (Total)	5260
<b>EPA 625.1 by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10300024
<b>Aqueous</b>	
1,2,4-Trichlorobenzene	5155
1,2-Dichlorobenzene	4610
1,3-Dichlorobenzene (1,3-DCB)	4615
1,4-Dichlorobenzene	4620
1-Methylnaphthalene	6380
2,2'-Oxybis(1-Chloropropane)	4659
2,3,4,6-Tetrachlorophenol	6735
2,4,5-Trichlorophenol	6835
2,4,6-Trichlorophenol	6840
2,4-Dichlorophenol	6000
2,4-Dimethylphenol	6130
2,4-Dinitrophenol	6175
2,4-Dinitrotoluene (2,4-DNT)	6185
2,6-Dinitrotoluene (2,6-DNT)	6190
2-Chloronaphthalene	5795
2-Chlorophenol	5800
2-Methylnaphthalene	6385
2-Methylphenol (o-Cresol)	6400
2-Nitroaniline	6460
2-Nitrophenol	6490
3+4-Methylphenol (m+p Cresol)	6412
3-Nitroaniline	6465
4,6-Dinitro-2-Methylphenol (Dinitro-o-Cresol)	6360
4-Bromophenyl Phenyl Ether (BDE-3)	5660
4-Chloro-3-Methylphenol	5700
4-Chloroaniline	5745
4-Chlorophenyl Phenylether	5825
4-Nitroaniline	6470
4-Nitrophenol	6500
Acenaphthene	5500
Acenaphthylene	5505
Aniline	5545



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### Organic

**EPA 625.1 by Gas Chromatography Mass Spectrometry (GC/MS)** 10300024

#### Aqueous

Anthracene 5555

Benzo(a)Anthracene 5575

Benzo(a)Pyrene 5580

Benzo(b)Fluoranthene 5585

Benzo(g,h,i)Perylene 5590

Benzo(k)Fluoranthene 5600

Benzoic Acid 5610

Benzyl Alcohol 5630

bis(2-Chloroethoxy)Methane 5760

bis(2-Chloroethyl)Ether 5765

bis(2-Ethylhexyl)Phthalate (DEHP, as di(2-ethylhexyl) phthalate) 6065

bis(2-Ethylhexyl)Adipate 6062

Butyl Benzyl Phthalate 5670

Carbazole 5680

Chrysene 5855

Dibenz(a,h)Anthracene 5895

Dibenzofuran 5905

Diethyl Phthalate 6070

Dimethyl Phthalate 6135

di-n-Butyl Phthalate 5925

di-n-Octyl Phthalate 6200

Diphenylamine 6205

Fluoranthene 6265

Fluorene 6270

Hexachlorobenzene 6275

Hexachlorobutadiene 4835

Hexachlorocyclopentadiene 6285

Hexachloroethane 4840

Indeno(1,2,3,cd)Pyrene 6315

Isophorone 6320

Naphthalene 5005

Nitrobenzene 5015

n-Nitrosodimethylamine 6530

n-Nitrosodi-n-Propylamine 6545

n-Nitrosodiphenylamine 6535

Pentachlorophenol (PCP) 6605



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### Organic

**EPA 625.1 by Gas Chromatography Mass Spectrometry (GC/MS)** 10300024

#### Aqueous

Phenanthrene 6615

Phenol 6625

Pyrene 6665

Pyridine 5095

**EPA 625.1 SIM by Gas Chromatography Mass Spectrometry (GC/MS) Selective Ion Monitoring (SIM)** 10300035

#### Aqueous

1-Methylnaphthalene 6380

2-Chloronaphthalene 5795

2-Methylnaphthalene 6385

Acenaphthene 5500

Acenaphthylene 5505

Anthracene 5555

Benzo(a)Anthracene 5575

Benzo(a)Pyrene 5580

Benzo(b)Fluoranthene 5585

Benzo(g,h,i)Perylene 5590

Benzo(k)Fluoranthene 5600

bis(2-Ethylhexy)Phthalate (DEHP, as di(2-ethylhexyl) phthalate) 6065

Butyl Benzyl Phthalate 5670

Carbazole 5680

Chrysene 5855

Dibenz(a,h)Anthracene 5895

Dibenzofuran 5905

Diethyl Phthalate 6070

Dimethyl Phthalate 6135

di-n-Butyl Phthalate 5925

di-n-Octyl Phthalate 6200

Fluoranthene 6265

Fluorene 6270

Indeno(1,2,3,cd)Pyrene 6315

Naphthalene 5005

Pentachlorophenol (PCP) 6605

Phenanthrene 6615

Pyrene 6665



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### Organic

**EPA 8011 by Gas Chromatography Electron Capture Detector (GC/ECD)** 10173009

#### Aqueous

1,2-Dibromo-3-Chloropropane (DBCP) 4570

1,2-Dibromoethane (EDB, Ethylene Dibromide) 4585

**EPA 8081B by Gas Chromatography Electron Capture Detector (GC/ECD)** 10178811

#### Aqueous

4,4'-DDD 7355

4,4'-DDE 7360

4,4'-DDT 7365

Aldrin 7025

alpha-BHC (a-BHC, alpha-Hexachlorocyclohexane) 7110

alpha-Chlordane (cis-Chlordane) 7240

beta-BHC (b-BHC, beta-Hexachlorocyclohexane) 7115

Chlordane (Technical) 7250

delta-BHC (d-BHC) 7105

Dieldrin 7470

Endosulfan I 7510

Endosulfan II 7515

Endosulfan Sulfate 7520

Endrin 7540

Endrin Aldehyde 7530

Endrin Ketone 7535

gamma-BHC ( $\gamma$ -BHC, Lindane, gamma-Hexachlorocyclohexane) 7120

gamma-Chlordane 7245

Heptachlor 7685

Heptachlor Epoxide 7690

Methoxychlor 7810

Toxaphene (Total) 8250

#### Solid

4,4'-DDD 7355

4,4'-DDE 7360

4,4'-DDT 7365

Aldrin 7025

alpha-BHC (a-BHC, alpha-Hexachlorocyclohexane) 7110

alpha-Chlordane (cis-Chlordane) 7240

beta-BHC (b-BHC, beta-Hexachlorocyclohexane) 7115

Chlordane (Technical) 7250

delta-BHC (d-BHC) 7105



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### Organic

**EPA 8081B by Gas Chromatography Electron Capture Detector (GC/ECD)** 10178811

#### Solid

Dieldrin 7470

Endosulfan I 7510

Endosulfan II 7515

Endosulfan Sulfate 7520

Endrin 7540

Endrin Aldehyde 7530

Endrin Ketone 7535

gamma-BHC ( $\gamma$ -BHC, Lindane, gamma-Hexachlorocyclohexane) 7120

Gamma-Chlordane 7245

Heptachlor 7685

Heptachlor Epoxide 7690

Methoxychlor 7810

Toxaphene (Total) 8250

**EPA 8082A by Gas Chromatography Electron Capture Detector (GC/ECD)** 10179358

#### Aqueous

Aroclor 1016 8880

Aroclor 1221 8885

Aroclor 1232 8890

Aroclor 1242 8895

Aroclor 1248 8900

Aroclor 1254 8905

Aroclor 1260 8910

Aroclor 1262 8912

Aroclor 1268 8913

#### Solid

Aroclor 1016 8880

Aroclor 1221 8885

Aroclor 1232 8890

Aroclor 1242 8895

Aroclor 1248 8900

Aroclor 1254 8905

Aroclor 1260 8910

Aroclor 1262 8912

Aroclor 1268 8913



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### Organic

#### EPA 8260D by Gas Chromatography Mass Spectrometry (GC/MS)

10307127

#### Aqueous

1,1,1,2-Tetrachloroethane	5105
1,1,1-Trichloroethane	5160
1,1,2,2-Tetrachloroethane	5110
1,1,2-Trichloro-1,2,2-Trifluoroethane (Trichlorotrifluoroethane, Freon 113)	5185
1,1,2-Trichloroethane	5165
1,1-Dichloroethane	4630
1,1-Dichloroethylene	4640
1,1-Dichloropropene	4670
1,2,3-Trichlorobenzene	5150
1,2,3-Trichloropropane (TCP)	5180
1,2,4-Trichlorobenzene	5155
1,2,4-Trimethylbenzene	5210
1,2-Dibromo-3-Chloropropane (DBCP)	4570
1,2-Dibromoethane (EDB, Ethylene Dibromide)	4585
1,2-Dichlorobenzene	4610
1,2-Dichloroethane (Ethylene Dichloride, EDC)	4635
1,2-Dichloropropane	4655
1,3,5-Trimethylbenzene	5215
1,3-Dichlorobenzene (1,3-DCB)	4615
1,3-Dichloropropane	4660
1,4-Dichlorobenzene	4620
2-Butanone (Methyl Ethyl Ketone, MEK)	4410
2-Chloroethyl Vinyl Ether	4500
2-Chlorotoluene	4535
2-Hexanone (Methyl Butyl Ketone, MBK)	4860
4-Chlorotoluene (p-Chlorotoluene)	4540
4-Isopropyltoluene (p-Isopropyltoluene, p-Cymene)	4910
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone (MIBK), Hexone)	4995
Acetone	4315
Acrolein (Propenal)	4325
Benzene	4375
Bromobenzene	4385
Bromochloromethane	4390
Bromodichloromethane	4395
Bromoform	4400
Carbon Disulfide	4450



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### Organic

#### EPA 8260D by Gas Chromatography Mass Spectrometry (GC/MS)

10307127

#### Aqueous

Carbon Tetrachloride	4455
Chlorobenzene	4475
Chlorodibromomethane (Dibromochloromethane)	4575
Chloroethane (Ethyl Chloride)	4485
Chloroform	4505
cis-1,2-Dichloroethylene	4645
cis-1,3-Dichloropropene	4680
Dibromomethane (Methylene Bromide)	4595
Dichlorodifluoromethane (Freon 12)	4625
Ethylbenzene	4765
Ethyl-tert-Butylether (ETBE, 2-Ethoxy-2-Methylpropane)	4770
Hexachlorobutadiene	4835
Isopropyl Ether (as di-Isopropyl Ether (DIPE))	9375
Isopropylbenzene (Cumene)	4900
m,p-Xylene	5240
Methyl Bromide (Bromomethane)	4950
Methyl Chloride (Chloromethane)	4960
Methyl tert Butyl Ether (MTBE)	5000
Methylene Chloride (Dichloromethane)	4975
Naphthalene	5005
n-Butylbenzene	4435
n-Hexane	4855
n-Propylbenzene (1-phenylpropane)	5090
o-Xylene (1,2-Xylene)	5250
sec-Butylbenzene	4440
Styrene	5100
tert-Amyl Methyl Ether (TAME)	4370
tert-Butyl Alcohol (TBA, 2-Methyl-2-Propanol, t-Butanol)	4420
tert-Butylbenzene	4445
Tetrachloroethylene (Perchloroethylene, PCE)	5115
Tetrahydrofuran (THF)	5120
Toluene	5140
trans-1,2-Dichloroethylene	4700
trans-1,3-Dichloropropylene	4685
Trichloroethene (TCE, Trichloroethylene)	5170
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	5175



# Certificate of Accreditation: Supplement

## Fremont Analytical, Inc.

3600 Fremont Avenue North, Seattle, WA 98103  
Contact Name: Alexander Kegley Phone: 206-352-3790

Accreditation is granted to the facility to perform the following testing:

	Code
<b>Organic</b>	
<b>EPA 8260D by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10307127
<b>Aqueous</b>	
Vinyl Acetate	5225
Vinyl Chloride (Chloroethene)	5235
Xylenes (Total)	5260
<b>Solid</b>	
1,1,1,2-Tetrachloroethane	5105
1,1,1-Trichloroethane	5160
1,1,2,2-Tetrachloroethane	5110
1,1,2-Trichloroethane	5165
1,1-Dichloroethane	4630
1,1-Dichloroethylene	4640
1,1-Dichloropropene	4670
1,2,3-Trichlorobenzene	5150
1,2,3-Trichloropropane (TCP)	5180
1,2,4-Trichlorobenzene	5155
1,2,4-Trimethylbenzene	5210
1,2-Dibromo-3-Chloropropane (DBCP)	4570
1,2-Dibromoethane (EDB, Ethylene Dibromide)	4585
1,2-Dichlorobenzene	4610
1,2-Dichloroethane (Ethylene Dichloride, EDC)	4635
1,2-Dichloropropane	4655
1,3,5-Trimethylbenzene	5215
1,3-Dichlorobenzene (1,3-DCB)	4615
1,3-Dichloropropane	4660
1,4-Dichlorobenzene	4620
2-Butanone (Methyl Ethyl Ketone, MEK)	4410
2-Chloroethyl Vinyl Ether	4500
2-Chlorotoluene	4535
2-Hexanone (Methyl Butyl Ketone, MBK)	4860
4-Chlorotoluene (p-Chlorotoluene)	4540
4-Isopropyltoluene (p-Isopropyltoluene, p-Cymene)	4910
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone (MIBK), Hexone)	4995
Acetone	4315
Acrolein (Propenal)	4325
Benzene	4375
Bromobenzene	4385
Bromochloromethane	4390





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Code

### Organic

Organic	Code
<b>EPA 8260D by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10307127
<b>Solid</b>	
Bromodichloromethane	4395
Bromoform	4400
Carbon Disulfide	4450
Carbon Tetrachloride	4455
Chlorobenzene	4475
Chlorodibromomethane (Dibromochloromethane)	4575
Chloroethane (Ethyl Chloride)	4485
Chloroform	4505
cis-1,2-Dichloroethylene	4645
cis-1,3-Dichloropropene	4680
Dibromomethane (Methylene Bromide)	4595
Dichlorodifluoromethane (Freon 12)	4625
Ethylbenzene	4765
Ethyl-tert-Butylether (ETBE, 2-Ethoxy-2-Methylpropane)	4770
Hexachlorobutadiene	4835
Isopropyl Ether (as di-Isopropyl Ether (DIPE))	9375
Isopropylbenzene (Cumene)	4900
m,p-Xylene	5240
Methyl Bromide (Bromomethane)	4950
Methyl Chloride (Chloromethane)	4960
Methyl tert Butyl Ether (MTBE)	5000
Methylene Chloride (Dichloromethane)	4975
Naphthalene	5005
n-Butylbenzene	4435
n-Hexane	4855
n-Propylbenzene (1-phenylpropane)	5090
o-Xylene (1,2-Xylene)	5250
sec-Butylbenzene	4440
Styrene	5100
tert-Amyl Methyl Ether (TAME)	4370
tert-Butyl Alcohol (TBA, 2-Methyl-2-Propanol, t-Butanol)	4420
tert-Butylbenzene	4445
Tetrachloroethylene (Perchloroethylene, PCE)	5115
Tetrahydrofuran (THF)	5120
Toluene	5140
trans-1,2-Dichloroethylene	4700



# Certificate of Accreditation: Supplement

## Fremont Analytical, Inc.

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Code

### Organic

**EPA 8260D by Gas Chromatography Mass Spectrometry (GC/MS)** 10307127

#### Solid

trans-1,3-Dichloropropylene 4685

Trichloroethene (TCE, Trichloroethylene) 5170

Trichlorofluoromethane (Fluorotrichloromethane, Freon 11) 5175

Vinyl Acetate 5225

Vinyl Chloride (Chloroethene) 5235

Xylenes (Total) 5260

**EPA 8260D SIM by Gas Chromatography Mass Spectrometry (GC/MS) Selective Ion Monitoring (SIM)** 10307138

#### Aqueous

1,1,1-Trichloroethane 5160

1,1,2-Trichloroethane 5165

1,1-Dichloroethane 4630

1,1-Dichloroethylene 4640

1,2-Dibromo-3-Chloropropane (DBCP) 4570

1,2-Dibromoethane (EDB, Ethylene Dibromide) 4585

1,2-Dichloroethane (Ethylene Dichloride, EDC) 4635

1,4-Dioxane (1,4-Diethyleneoxide, p-Dioxane) 4735

Benzene 4375

cis-1,2-Dichloroethylene 4645

Ethylbenzene 4765

Hexachlorobutadiene 4835

m,p-Xylene 5240

Methyl tert Butyl Ether (MTBE) 5000

Methylene Chloride (Dichloromethane) 4975

o-Xylene (1,2-Xylene) 5250

Tetrachloroethylene (Perchloroethylene, PCE) 5115

Toluene 5140

trans-1,2-Dichloroethylene 4700

Trichloroethene (TCE, Trichloroethylene) 5170

Vinyl Chloride (Chloroethene) 5235

Xylenes (Total) 5260

#### Solid

1,1,1-Trichloroethane 5160

1,1,2-Trichloroethane 5165

1,1-Dichloroethane 4630

1,1-Dichloroethylene 4640

1,2-Dibromo-3-Chloropropane (DBCP) 4570



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Accreditation is granted to the facility to perform the following testing:

Code

### Organic

**EPA 8260D SIM by Gas Chromatography Mass Spectrometry (GC/MS) Selective Ion Monitoring (SIM)** 10307138

#### Solid

1,2-Dibromoethane (EDB, Ethylene Dibromide)	4585
1,2-Dichloroethane (Ethylene Dichloride, EDC)	4635
1,4-Dioxane (1,4-Diethyleneoxide, p-Dioxane)	4735
Benzene	4375
cis-1,2-Dichloroethylene	4645
Ethylbenzene	4765
Hexachlorobutadiene	4835
m,p-Xylene	5240
Methyl tert Butyl Ether (MTBE)	5000
Methylene Chloride (Dichloromethane)	4975
o-Xylene (1,2-Xylene)	5250
Tetrachloroethylene (Perchloroethylene, PCE)	5115
Toluene	5140
trans-1,2-Dichloroethylene	4700
Trichloroethene (TCE, Trichloroethylene)	5170
Vinyl Chloride (Chloroethene)	5235
Xylenes (Total)	5260

**EPA 8270E by Gas Chromatography Mass Spectrometry (GC/MS)** 10242543

#### Aqueous

1,2,4-Trichlorobenzene	5155
1,2-Dichlorobenzene	4610
1,3-Dichlorobenzene (1,3-DCB)	4615
1,4-Dichlorobenzene	4620
1-Methylnaphthalene	6380
2,2'-Oxybis(1-Chloropropane)	4659
2,3,4,6-Tetrachlorophenol	6735
2,4,5-Trichlorophenol	6835
2,4,6-Trichlorophenol	6840
2,4-Dichlorophenol	6000
2,4-Dimethylphenol	6130
2,4-Dinitrophenol	6175
2,4-Dinitrotoluene (2,4-DNT)	6185
2,6-Dinitrotoluene (2,6-DNT)	6190
2-Chloronaphthalene	5795
2-Chlorophenol	5800
2-Methylnaphthalene	6385



# Certificate of Accreditation: Supplement

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Contact Name: Alexander Kegley Phone: 206-352-3790

Accreditation is granted to the facility to perform the following testing:

Code

### Organic

<b>EPA 8270E by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10242543
<b>Aqueous</b>	
2-Methylphenol (o-Cresol)	6400
2-Nitroaniline	6460
2-Nitrophenol	6490
3+4-Methylphenol (m+p Cresol)	6412
3-Nitroaniline	6465
4,6-Dinitro-2-Methylphenol (Dinitro-o-Cresol)	6360
4-Bromophenyl Phenyl Ether (BDE-3)	5660
4-Chloro-3-Methylphenol	5700
4-Chloroaniline	5745
4-Chlorophenyl Phenylether	5825
4-Nitroaniline	6470
4-Nitrophenol	6500
Acenaphthene	5500
Acenaphthylene	5505
Aniline	5545
Anthracene	5555
Benzo(a)Anthracene	5575
Benzo(a)Pyrene	5580
Benzo(b)Fluoranthene	5585
Benzo(g,h,i)Perylene	5590
Benzo(k)Fluoranthene	5600
Benzoic Acid	5610
Benzyl Alcohol	5630
bis(2-Chloroethoxy)Methane	5760
bis(2-Chloroethyl)Ether	5765
bis(2-Ethylhexyl)Phthalate (DEHP, as di(2-ethylhexyl) phthalate)	6065
bis(2-Ethylhexyl)Adipate	6062
Butyl Benzyl Phthalate	5670
Carbazole	5680
Chrysene	5855
Dibenz(a,h)Anthracene	5895
Dibenzofuran	5905
Diethyl Phthalate	6070
Dimethyl Phthalate	6135
di-n-Butyl Phthalate	5925
di-n-Octyl Phthalate	6200



# Certificate of Accreditation: Supplement

## Fremont Analytical, Inc.

3600 Fremont Avenue North, Seattle, WA 98103

Contact Name: Alexander Kegley Phone: 206-352-3790

Accreditation is granted to the facility to perform the following testing:

Code

### Organic

EPA 8270E by Gas Chromatography Mass Spectrometry (GC/MS) 10242543

#### Aqueous

Diphenylamine	6205
Fluoranthene	6265
Fluorene	6270
Hexachlorobenzene	6275
Hexachlorobutadiene	4835
Hexachlorocyclopentadiene	6285
Hexachloroethane	4840
Indeno(1,2,3,cd)Pyrene	6315
Isophorone	6320
Naphthalene	5005
Nitrobenzene	5015
n-Nitrosodimethylamine	6530
n-Nitrosodi-n-Propylamine	6545
n-Nitrosodiphenylamine	6535
Pentachlorophenol (PCP)	6605
Phenanthrene	6615
Phenol	6625
Pyrene	6665

#### Solid

1,2,4-Trichlorobenzene	5155
1,2-Dichlorobenzene	4610
1,3-Dichlorobenzene (1,3-DCB)	4615
1,4-Dichlorobenzene	4620
1-Methylnaphthalene	6380
2,2'-Oxybis(1-Chloropropane)	4659
2,3,4,6-Tetrachlorophenol	6735
2,4,5-Trichlorophenol	6835
2,4,6-Trichlorophenol	6840
2,4-Dichlorophenol	6000
2,4-Dimethylphenol	6130
2,4-Dinitrophenol	6175
2,4-Dinitrotoluene (2,4-DNT)	6185
2,6-Dinitrotoluene (2,6-DNT)	6190
2-Chloronaphthalene	5795
2-Chlorophenol	5800
2-Methylnaphthalene	6385



# Certificate of Accreditation: Supplement

## Fremont Analytical, Inc.

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Accreditation is granted to the facility to perform the following testing:

Code

### Organic

#### EPA 8270E by Gas Chromatography Mass Spectrometry (GC/MS)

10242543

#### Solid

2-Methylphenol (o-Cresol)	6400
2-Nitroaniline	6460
2-Nitrophenol	6490
3+4-Methylphenol (m+p Cresol)	6412
3-Nitroaniline	6465
4,6-Dinitro-2-Methylphenol (Dinitro-o-Cresol)	6360
4-Bromophenyl Phenyl Ether (BDE-3)	5660
4-Chloro-3-Methylphenol	5700
4-Chloroaniline	5745
4-Chlorophenyl Phenylether	5825
4-Nitroaniline	6470
4-Nitrophenol	6500
Acenaphthene	5500
Acenaphthylene	5505
Aniline	5545
Anthracene	5555
Benzo(a)Anthracene	5575
Benzo(a)Pyrene	5580
Benzo(b)Fluoranthene	5585
Benzo(g,h,i)Perylene	5590
Benzo(k)Fluoranthene	5600
Benzoic Acid	5610
Benzyl Alcohol	5630
bis(2-Chloroethoxy)Methane	5760
bis(2-Chloroethyl)Ether	5765
bis(2-Ethylhexyl)Phthalate (DEHP, as di(2-ethylhexyl) phthalate)	6065
bis(2-Ethylhexyl)Adipate	6062
Butyl Benzyl Phthalate	5670
Carbazole	5680
Chrysene	5855
Dibenz(a,h)Anthracene	5895
Dibenzofuran	5905
Diethyl Phthalate	6070
Dimethyl Phthalate	6135
di-n-Butyl Phthalate	5925
di-n-Octyl Phthalate	6200



# Certificate of Accreditation: Supplement

## Fremont Analytical, Inc.

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Accreditation is granted to the facility to perform the following testing:

Code

### Organic

**EPA 8270E by Gas Chromatography Mass Spectrometry (GC/MS)** 10242543

#### Solid

Diphenylamine	6205
Fluoranthene	6265
Fluorene	6270
Hexachlorobenzene	6275
Hexachlorobutadiene	4835
Hexachlorocyclopentadiene	6285
Hexachloroethane	4840
Indeno(1,2,3,cd)Pyrene	6315
Isophorone	6320
Naphthalene	5005
Nitrobenzene	5015
n-Nitrosodimethylamine	6530
n-Nitrosodi-n-Propylamine	6545
n-Nitrosodiphenylamine	6535
Pentachlorophenol (PCP)	6605
Phenanthrene	6615
Phenol	6625
Pyrene	6665

**EPA 8270E SIM by Gas Chromatography Mass Spectrometry (GC/MS) Selective Ion Monitoring (SIM)** 10242565

#### Aqueous

1-Methylnaphthalene	6380
2-Chloronaphthalene	5795
2-Methylnaphthalene	6385
Acenaphthene	5500
Acenaphthylene	5505
Anthracene	5555
Benzo(a)Anthracene	5575
Benzo(a)Pyrene	5580
Benzo(b)Fluoranthene	5585
Benzo(g,h,i)Perylene	5590
Benzo(k)Fluoranthene	5600
bis(2-Ethylhexy)Phthalate (DEHP, as di(2-ethylhexyl) phthalate)	6065
Butyl Benzyl Phthalate	5670
Carbazole	5680
Chrysene	5855
Dibenz(a,h)Anthracene	5895



# Certificate of Accreditation: Supplement

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Code

### Organic

**EPA 8270E SIM by Gas Chromatography Mass Spectrometry (GC/MS) Selective Ion Monitoring (SIM)** 10242565

#### Aqueous

Dibenzofuran	5905
Diethyl Phthalate	6070
Dimethyl Phthalate	6135
di-n-Butyl Phthalate	5925
di-n-Octyl Phthalate	6200
Fluoranthene	6265
Fluorene	6270
Indeno(1,2,3,cd)Pyrene	6315
Naphthalene	5005
Pentachlorophenol (PCP)	6605
Phenanthrene	6615
Pyrene	6665

#### Solid

1-Methylnaphthalene	6380
2-Chloronaphthalene	5795
2-Methylnaphthalene	6385
Acenaphthene	5500
Acenaphthylene	5505
Anthracene	5555
Benzo(a)Anthracene	5575
Benzo(a)Pyrene	5580
Benzo(b)Fluoranthene	5585
Benzo(g,h,i)Perylene	5590
Benzo(k)Fluoranthene	5600
bis(2-Ethylhexy)Phthalate (DEHP, as di(2-ethylhexyl) phthalate)	6065
Butyl Benzyl Phthalate	5670
Carbazole	5680
Chrysene	5855
Dibenz(a,h)Anthracene	5895
Dibenzofuran	5905
Diethyl Phthalate	6070
Dimethyl Phthalate	6135
di-n-Butyl Phthalate	5925
di-n-Octyl Phthalate	6200
Fluoranthene	6265
Fluorene	6270





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Code

### Organic

**EPA 8270E SIM by Gas Chromatography Mass Spectrometry (GC/MS) Selective Ion Monitoring (SIM)** 10242565

#### Solid

Indeno(1,2,3,cd)Pyrene 6315

Naphthalene 5005

Pentachlorophenol (PCP) 6605

Phenanthrene 6615

Pyrene 6665

**EPA TO-15 by Gas Chromatography Mass Spectrometry (GC/MS)** 10248803

#### Air

1,1,1-Trichloroethane 5160

1,1,2,2-Tetrachloroethane 5110

1,1,2-Trichloro-1,2,2-Trifluoroethane (Trichlorotrifluoroethane, Freon 113) 5185

1,1,2-Trichloroethane 5165

1,1-Dichloroethane 4630

1,1-Dichloroethylene 4640

1,2,4-Trichlorobenzene 5155

1,2,4-Trimethylbenzene 5210

1,2-Dibromoethane (EDB, Ethylene Dibromide) 4585

1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114, 1,2-Dichlorotetrafluoroethane) 4695

1,2-Dichlorobenzene 4610

1,2-Dichloroethane (Ethylene Dichloride, EDC) 4635

1,2-Dichloropropane 4655

1,3,5-Trimethylbenzene 5215

1,3-Butadiene 9318

1,3-Dichlorobenzene (1,3-DCB) 4615

1,4-Dichlorobenzene 4620

1,4-Dioxane (1,4-Diethyleneoxide, p-Dioxane) 4735

2-Butanone (Methyl Ethyl Ketone, MEK) 4410

2-Hexanone (Methyl Butyl Ketone, MBK) 4860

4-Ethyltoluene (p-Ethyltoluene, 1-Ethyl-4-Methylbenzene) 4542

4-Methyl-2-Pentanone (Methyl Isobutyl Ketone (MIBK), Hexone) 4995

Acetone 4315

Acrolein (Propenal) 4325

Benzene 4375

Benzyl Chloride 5635

Bromoform 4400

Carbon Disulfide 4450

Carbon Tetrachloride 4455



# Certificate of Accreditation: Supplement

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Code

### Organic

<b>EPA TO-15 by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10248803
<b>Air</b>	
Chlorobenzene	4475
Chlorodibromomethane (Dibromochloromethane)	4575
Chloroethane (Ethyl Chloride)	4485
Chloroform	4505
cis-1,2-Dichloroethylene	4645
cis-1,3-Dichloropropene	4680
Cyclohexane	4555
Dichlorodifluoromethane (Freon 12)	4625
Ethyl Acetate	4755
Ethylbenzene	4765
Hexachlorobutadiene	4835
Isopropyl Alcohol (IPA, 2-Propanol, Isopropanol)	4895
m,p-Xylene	5240
Methyl Bromide (Bromomethane)	4950
Methyl Chloride (Chloromethane)	4960
Methyl Methacrylate	4990
Methyl tert Butyl Ether (MTBE)	5000
Methylene Chloride (Dichloromethane)	4975
Naphthalene	5005
n-Heptane	4825
n-Hexane	4855
o-Xylene (1,2-Xylene)	5250
Propylene (as Propene)	4836
Styrene	5100
Tetrachloroethylene (Perchloroethylene, PCE)	5115
Tetrahydrofuran (THF)	5120
Toluene	5140
trans-1,2-Dichloroethylene	4700
trans-1,3-Dichloropropylene	4685
Trichloroethene (TCE, Trichloroethylene)	5170
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	5175
Vinyl Chloride (Chloroethene)	5235
Xylenes (Total)	5260
<b>NWTPH-Dx/Dext by Gas Chromatography Flame Ionization Detection (GC/FID)</b>	90018409
<b>Aqueous</b>	
Motor Oil (Residual Range Organics (RRO))	9506



# Certificate of Accreditation: Supplement

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Code

### Organic

<b>NWTPH-Dx/Dext by Gas Chromatography Flame Ionization Detection (GC/FID)</b>	90018409
<b>Aqueous</b>	
Total Petroleum Hydrocarbons Diesel Range Organics (TPH DRO)	9369
<b>Solid</b>	
Motor Oil (Residual Range Organics (RRO))	9506
Total Petroleum Hydrocarbons Diesel Range Organics (TPH DRO)	9369
<b>NWTPH-Gx by Gas Chromatography Mass Spectrometry (GC/MS)</b>	90018658
<b>Aqueous</b>	
Total Petroleum Hydrocarbons Gasoline Range Organics (TPH GRO)	9408
<b>Solid</b>	
Total Petroleum Hydrocarbons Gasoline Range Organics (TPH GRO)	9408
<b>NWTPH-Gx by Gas Chromatography Photoionization and Flame Ionization Detection (GC/PID/FID)</b>	90018603
<b>Aqueous</b>	
Total Petroleum Hydrocarbons Gasoline Range Organics (TPH GRO)	9408
<b>Solid</b>	
Total Petroleum Hydrocarbons Gasoline Range Organics (TPH GRO)	9408

### Preparation

#### Aqueous

EPA 1311	Toxicity Characteristic Leaching Procedure (TCLP)
EPA 3010A	Acid Digestion for Total Metals
EPA 3510C	Separatory Funnel Liquid-Liquid Extraction
EPA 3620C	Florisil Cleanup
EPA 3665A	Sulfuric Acid Cleanup
EPA 5030B	Purge-and-Trap for Volatile Organics in Aqueous Samples

#### Solid

EPA 1311	Toxicity Characteristic Leaching Procedure (TCLP)
EPA 3050B	Acid Digestion for Metals
EPA 3550C	Ultrasonic Extraction
EPA 3620C	Florisil Cleanup
EPA 3665A	Sulfuric Acid Cleanup
EPA 5035A	Purge-and-Trap and Extraction For Volatile Organics (Closed-System)

#### Footnotes:

> Method codes are typically based on The NELAC Institute (TNI) Laboratory Accreditation Management System (LAMS) and are used to compare to the laboratory reported Performance Test (PT) results. Although the method code may not represent the specific method version, it is the method code used to represent the method/technology used to report PTs. (NC = No Code)