



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

**Alliance Technical Group, LLC**  
**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 09, 2024

Expiration Date

September 19, 2026

Tracy Szoszen  
President

Accreditation No:

79636

Certificate No:

L24-682

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

## Alliance Technical Group, LLC

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 (Sieving)	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 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
Cadmium	1030
Calcium	1035
Chromium	1040



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### Inorganic

<b>EPA 200.8 by Inductively Coupled Plasma Mass Spectrometry (ICP/MS)</b>	10014605
<b>Aqueous</b>	
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
Fluoride	1730
Nitrate (as N)	1810
Nitrate + Nitrite (as N)	1820



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### Inorganic

<b>EPA 300.0 by Ion Chromatography (IC)</b>	10053200
<b>Solid</b>	
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
Mercury	1095
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
Mercury	1095
Molybdenum	1100
Nickel	1105



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### Inorganic

<b>EPA 6020B by Inductively Coupled Plasma Mass Spectrometry (ICP/MS)</b>	10156420
<b>Solid</b>	
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
<b>Solid</b>	
Residual Range Organics (RRO)	9506



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### Organic

<b>EPA 608.3 by Gas Chromatography Electron Capture Detector (GC/ECD)</b>	10296614
<b>Aqueous</b>	
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
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
<b>EPA 624.1 by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10298121
<b>Aqueous</b>	
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



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<b>EPA 624.1 by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10298121
<b>Aqueous</b>	
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 (2-CEVE)	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
Carbon Tetrachloride	4455
Chlorobenzene	4475
Chlorodibromomethane (Dibromochloromethane)	4575
Chloroethane (Ethyl Chloride)	4485
Chloroform	4505





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<b>EPA 624.1 by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10298121
<b>Aqueous</b>	
cis-1,2-Dichloroethylene	4645
cis-1,3-Dichloropropene	4680
Dibromomethane (Methylene Bromide)	4595
Dichlorodifluoromethane (Freon 12)	4625
Ethyl tert Butyl Ether (ETBE, 2-Ethoxy-2-Methylpropane)	4770
Ethylbenzene	4765
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
Tetrachloroethene (Perchloroethene, 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
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





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<b>EPA 625.1 by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10300024
<b>Aqueous</b>	
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-Methyl-4,6-Dinitrophenol (4,6-Dinitro-2-Methylphenol, Dinitro-o-Cresol)	6360
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-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



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<b>EPA 625.1 by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10300024
<b>Aqueous</b>	
Benzo(k)Fluoranthene	5600
Benzoic Acid	5610
Benzyl Alcohol	5630
bis(2-Chloroethoxy)Methane	5760
bis(2-Chloroethyl)ether	5765
bis(2-Ethylhexy)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
Phenanthrene	6615
Phenol	6625
Pyrene	6665
Pyridine	5095



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<b>EPA 625.1 SIM by Gas Chromatography Mass Spectrometry (GC/MS) Selective Ion Monitoring (SIM)</b>	10300035
<b>Aqueous</b>	
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
<b>EPA 8011 by Gas Chromatography Electron Capture Detector (GC/ECD)</b>	10173009
<b>Aqueous</b>	
1,2-Dibromo-3-Chloropropane (DBCP)	4570
1,2-Dibromoethane (EDB, Ethylene Dibromide)	4585
<b>EPA 8081B by Gas Chromatography Electron Capture Detector (GC/ECD)</b>	10178811
<b>Aqueous</b>	
4,4'-DDD	7355
4,4'-DDE	7360



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<b>EPA 8081B by Gas Chromatography Electron Capture Detector (GC/ECD)</b>	10178811
<b>Aqueous</b>	
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
<b>Solid</b>	
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



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### Organic

<b>EPA 8081B by Gas Chromatography Electron Capture Detector (GC/ECD)</b>	10178811
<b>Solid</b>	
Endrin Ketone	7535
gamma-BHC ( $\gamma$ -BHC, Lindane, gamma-Hexachlorocyclohexane)	7120
gamma-Chlordane	7245
Heptachlor	7685
Heptachlor Epoxide	7690
Methoxychlor	7810
Toxaphene (Total)	8250
<b>EPA 8082A by Gas Chromatography Electron Capture Detector (GC/ECD)</b>	10179358
<b>Aqueous</b>	
Aroclor 1016	8880
Aroclor 1221	8885
Aroclor 1232	8890
Aroclor 1242	8895
Aroclor 1248	8900
Aroclor 1254	8905
Aroclor 1260	8910
<b>Solid</b>	
Aroclor 1016	8880
Aroclor 1221	8885
Aroclor 1232	8890
Aroclor 1242	8895
Aroclor 1248	8900
Aroclor 1254	8905
Aroclor 1260	8910
<b>EPA 8260D by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10307127
<b>Aqueous</b>	
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



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<b>EPA 8260D by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10307127
<b>Aqueous</b>	
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 (2-CEVE)	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
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
Ethyl tert Butyl Ether (ETBE, 2-Ethoxy-2-Methylpropane)	4770





# Certificate of Accreditation: Supplement

## Alliance Technical Group, LLC

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

<b>EPA 8260D by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10307127
<b>Aqueous</b>	
Ethylbenzene	4765
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
Tetrachloroethene (Perchloroethene, 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
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



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Code

### Organic

Organic	Code
<b>EPA 8260D by Gas Chromatography Mass Spectrometry (GC/MS)</b>	<b>10307127</b>
<b>Solid</b>	
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 (2-CEVE)	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
Carbon Tetrachloride	4455
Chlorobenzene	4475
Chlorodibromomethane (Dibromochloromethane)	4575
Chloroethane (Ethyl Chloride)	4485
Chloroform	4505
cis-1,2-Dichloroethylene	4645
cis-1,3-Dichloropropene	4680



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Code

### Organic

<b>EPA 8260D by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10307127
<b>Solid</b>	
Dibromomethane (Methylene Bromide)	4595
Dichlorodifluoromethane (Freon 12)	4625
Ethyl tert Butyl Ether (ETBE, 2-Ethoxy-2-Methylpropane)	4770
Ethylbenzene	4765
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
Tetrachloroethene (Perchloroethene, 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
Vinyl Chloride (Chloroethene)	5235
Xylenes (Total)	5260
<b>EPA 8260D SIM by Gas Chromatography Mass Spectrometry (GC/MS) Selective Ion Monitoring (SIM)</b>	10307138
<b>Aqueous</b>	
1,1,1-Trichloroethane	5160
1,1,2-Trichloroethane	5165



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## Alliance Technical Group, LLC

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### Organic

<b>EPA 8260D SIM by Gas Chromatography Mass Spectrometry (GC/MS) Selective Ion Monitoring (SIM)</b>	10307138
<b>Aqueous</b>	
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
Tetrachloroethene (Perchloroethene, PCE)	5115
Toluene	5140
trans-1,2-Dichloroethylene	4700
Trichloroethene (TCE, Trichloroethylene)	5170
Vinyl Chloride (Chloroethene)	5235
Xylenes (Total)	5260
<b>Solid</b>	
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



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Code

### Organic

<b>EPA 8260D SIM by Gas Chromatography Mass Spectrometry (GC/MS) Selective Ion Monitoring (SIM)</b>	10307138
<b>Solid</b>	
o-Xylene (1,2-Xylene)	5250
Tetrachloroethene (Perchloroethene, PCE)	5115
Toluene	5140
trans-1,2-Dichloroethylene	4700
Trichloroethene (TCE, Trichloroethylene)	5170
Vinyl Chloride (Chloroethene)	5235
Xylenes (Total)	5260
<b>EPA 8270E by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10242543
<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-Methyl-4,6-Dinitrophenol (4,6-Dinitro-2-Methylphenol, Dinitro-o-Cresol)	6360
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-Bromophenyl Phenyl Ether (BDE-3)	5660
4-Chloro-3-Methylphenol	5700
4-Chloroaniline	5745
4-Chlorophenyl Phenylether	5825



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Code

### Organic

<b>EPA 8270E by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10242543
<b>Aqueous</b>	
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
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





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Code

### Organic

<b>EPA 8270E by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10242543
<b>Aqueous</b>	
Nitrobenzene	5015
n-Nitrosodimethylamine	6530
n-Nitrosodi-n-Propylamine	6545
n-Nitrosodiphenylamine	6535
Pentachlorophenol (PCP)	6605
Phenanthrene	6615
Phenol	6625
Pyrene	6665
<b>Solid</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-Methyl-4,6-Dinitrophenol (4,6-Dinitro-2-Methylphenol, Dinitro-o-Cresol)	6360
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-Bromophenyl Phenyl Ether (BDE-3)	5660
4-Chloro-3-Methylphenol	5700
4-Chloroaniline	5745
4-Chlorophenyl Phenylether	5825



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Code

### Organic

<b>EPA 8270E by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10242543
<b>Solid</b>	
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
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



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Code

### Organic

<b>EPA 8270E by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10242543
<b>Solid</b>	
Nitrobenzene	5015
n-Nitrosodimethylamine	6530
n-Nitrosodi-n-Propylamine	6545
n-Nitrosodiphenylamine	6535
Pentachlorophenol (PCP)	6605
Phenanthrene	6615
Phenol	6625
Pyrene	6665
<b>EPA 8270E SIM by Gas Chromatography Mass Spectrometry (GC/MS) Selective Ion Monitoring (SIM)</b>	10242565
<b>Aqueous</b>	
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



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Code

<b>Organic</b>		
<b>EPA 8270E SIM by Gas Chromatography Mass Spectrometry (GC/MS) Selective Ion Monitoring (SIM)</b>		10242565
<b>Aqueous</b>		
Phenanthrene		6615
Pyrene		6665
<b>Solid</b>		
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
<b>EPA TO-15 by Gas Chromatography Mass Spectrometry (GC/MS)</b>		10248803
<b>Air</b>		
1,1,1-Trichloroethane		5160
1,1,2,2-Tetrachloroethane		5110
1,1,2-Trichloro-1,2,2-Trifluoroethane (Trichlorotrifluoroethane, Freon 113)		5185



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Code

### Organic

<b>EPA TO-15 by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10248803
<b>Air</b>	
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
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



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Code

<b>Organic</b>		
<b>EPA TO-15 by Gas Chromatography Mass Spectrometry (GC/MS)</b>		10248803
<b>Air</b>		
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 (1-Heptane, Heptane)		4825
n-Hexane		4855
o-Xylene (1,2-Xylene)		5250
Propylene (as Propene)		4836
Styrene		5100
Tetrachloroethene (Perchloroethene, 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
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





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

Code

### Organic

NWTPH-Gx by Gas Chromatography Photoionization and Flame Ionization Detection (GC/PID/FID) 90018603

#### Aqueous

Total Petroleum Hydrocarbons Gasoline Range Organics (TPH GRO) 9408

#### Solid

Total Petroleum Hydrocarbons Gasoline Range Organics (TPH GRO) 9408

### Preparation

#### Aqueous

EPA 1311 Toxicity Characteristic Leaching Procedure (ZHE)  
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 (ZHE)  
Toxicity Characteristic Leaching Procedure (TCLP)

EPA 3050B Acid Digestion for Metals

EPA 3546 Microwave Extraction (Organics)

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)