



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

***Pace Analytical Services, LLC dba BC Laboratories, Inc.  
4100 Atlas Court, Bakersfield, CA 93308***

*(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

Tracy Szorszen  
President

Initial Accreditation Date:

March 22, 2010

Issue Date:

February 11, 2022

Expiration Date

March 31, 2024

Revision Date:

October 06, 2022

Accreditation No:

66175

Certificate No:

L22-134-R2

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

**Pace Analytical Services, LLC dba BC Laboratories, Inc.**

4100 Atlas Court, Bakersfield, CA 93308

Contact Name: Sara Guron Phone: 661-327-4911

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

Code

General Chemistry		
<b>EPA 120.1 by Conductivity Meter</b>		10006403
<b>Aqueous</b>		
Specific Conductance (Conductivity)		1610
<b>EPA 160.1 by Gravimetry</b>		10009208
<b>Aqueous</b>		
Solids (Total Dissolved, TDS)		1955
<b>EPA 1664B by Gravimetry</b>		10261617
<b>Aqueous</b>		
Oil & Grease (O&G)		1803
<b>EPA 180.1 by Turbidimetry</b>		10011800
<b>Aqueous</b>		
Turbidity		2055
<b>EPA 310.1 by Titrimetry</b>		10054805
<b>Aqueous</b>		
Alkalinity (as CaCO <sub>3</sub> )		1505
<b>EPA 410.4 by Spectrophotometry</b>		10077404
<b>Aqueous</b>		
Chemical Oxygen Demand (COD)		1565
<b>EPA 415.1 by TOC Analyzer</b>		10078407
<b>Aqueous</b>		
Total Organic Carbon (TOC)		2040
<b>EPA 9012 by Ultraviolet-Visible (UV/VIS) Spectrophotometry</b>		10193201
<b>Aqueous</b>		
Cyanide (Total)		1645
<b>Solid</b>		
Cyanide (Total)		1645
<b>EPA 9012A by Ultraviolet-Visible (UV/VIS) Spectrophotometry</b>		10193405
<b>Aqueous</b>		
Cyanide (Total)		1645
<b>Solid</b>		
Cyanide (Total)		1645
<b>EPA 9040B by Ion Selective Electrode (ISE)</b>		10197203
<b>Aqueous</b>		
pH (Corrosivity)		1625
<b>EPA 9045C by Ion Selective Electrode (ISE)</b>		10198400
<b>Solid</b>		
pH (Corrosivity)		1625



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### General Chemistry

**SM 2540C (2011) by Gravimetry** 20050413

#### Aqueous

Solids (Total Dissolved, TDS) 1955

**SM 2540G (2011) by Gravimetry** 20005258

#### Aqueous

Moisture (Percent) 8641

#### Solid

Moisture (Percent) 8641

### Inorganic

**EPA 200.7 by Inductively Coupled Plasma Optical Emission Spectrometry (ICP/OES)** 10013408

#### Aqueous

Aluminum 1000

Antimony 1005

Arsenic 1010

Barium 1015

Beryllium 1020

Boron 1025

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

Titanium 1180

Vanadium 1185

Zinc 1190



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### Inorganic

**EPA 200.7 by Inductively Coupled Plasma Optical Emission Spectrometry (ICP/OES)** 10013408

#### Drinking Water

Aluminum	1000
Antimony	1005
Arsenic	1010
Barium	1015
Beryllium	1020
Cadmium	1030
Calcium	1035
Chromium	1040
Copper	1055
Iron	1070
Lead	1075
Magnesium	1085
Manganese	1090
Molybdenum	1100
Nickel	1105
Potassium	1125
Selenium	1140
Silica (as SiO <sub>2</sub> )	1990
Silver	1150
Sodium	1155
Thallium	1165
Vanadium	1185
Zinc	1190

**EPA 200.8 by Inductively Coupled Plasma Mass Spectrometry (ICP/MS)** 10014401

#### Aqueous

Aluminum	1000
Antimony	1005
Arsenic	1010
Barium	1015
Beryllium	1020
Boron	1025
Cadmium	1030
Chromium	1040
Cobalt	1050
Copper	1055
Lead	1075



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### Inorganic

**EPA 200.8 by Inductively Coupled Plasma Mass Spectrometry (ICP/MS)** 10014401

#### Aqueous

Manganese	1090
Mercury	1095
Molybdenum	1100
Nickel	1105
Selenium	1140
Silver	1150
Thallium	1165
Vanadium	1185
Zinc	1190

#### Drinking Water

Aluminum	1000
Antimony	1005
Arsenic	1010
Barium	1015
Beryllium	1020
Boron	1025
Cadmium	1030
Chromium	1040
Cobalt	1050
Copper	1055
Lead	1075
Manganese	1090
Mercury	1095
Molybdenum	1100
Nickel	1105
Selenium	1140
Silver	1150
Thallium	1165
Uranium	1184
Vanadium	1185
Zinc	1190

**EPA 300.0 by Ion Chromatography (IC)** 10053200

#### Aqueous

Bromide	1540
Chloride	1575
Fluoride	1730



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	Code
<b>Inorganic</b>	
<b>EPA 300.0 by Ion Chromatography (IC)</b>	10053200
<b>Aqueous</b>	
Nitrate (as N)	1810
Nitrate (as NO3)	1805
Sulfate	2000
<b>EPA 314.0 by Ion Chromatography (IC)</b>	10055604
<b>Aqueous</b>	
Perchlorate	1895
<b>EPA 350.1 by Ultraviolet-Visible (UV/VIS) Spectrophotometry</b>	10063602
<b>Aqueous</b>	
Ammonia (as N)	1515
<b>EPA 353.2 by Ultraviolet-Visible (UV/VIS) Spectrophotometry</b>	10067604
<b>Aqueous</b>	
Nitrate (Total)	1805
Nitrate + Nitrite (as N)	1820
<b>EPA 365.1 by Ultraviolet-Visible (UV/VIS) Spectrophotometry</b>	10070005
<b>Aqueous</b>	
Orthophosphate (as P)	1870
<b>EPA 365.4 by Ultraviolet-Visible (UV/VIS) Spectrophotometry</b>	10071202
<b>Aqueous</b>	
Phosphorous (Total)	1910
<b>EPA 6010B by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP/AES)</b>	10155609
<b>Aqueous</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

### EPA 6010B by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP/AES)

10155609

#### Aqueous

Nickel	1105
Potassium	1125
Selenium	1140
Silver	1150
Sodium	1155
Strontium	1160
Thallium	1165
Tin	1175
Titanium	1180
Vanadium	1185
Zinc	1190

#### Solid

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
Nickel	1105
Potassium	1125
Selenium	1140
Silver	1150
Sodium	1155
Strontium	1160
Thallium	1165
Tin	1175
Titanium	1180





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## Inorganic

<b>EPA 6010B by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP/AES)</b>	10155609
<b>Solid</b>	
Vanadium	1185
Zinc	1190
<b>EPA 6020 by Inductively Coupled Plasma Mass Spectrometry (ICP/MS)</b>	10156204
<b>Aqueous</b>	
Antimony	1005
Arsenic	1010
Barium	1015
Beryllium	1020
Cadmium	1030
Chromium	1040
Cobalt	1050
Copper	1055
Lead	1075
Manganese	1090
Molybdenum	1100
Nickel	1105
Selenium	1140
Silver	1150
Thallium	1165
Vanadium	1185
Zinc	1190
<b>Solid</b>	
Antimony	1005
Arsenic	1010
Barium	1015
Beryllium	1020
Cadmium	1030
Chromium	1040
Cobalt	1050
Copper	1055
Lead	1075
Manganese	1090
Molybdenum	1100
Nickel	1105
Selenium	1140
Silver	1150





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<b>Inorganic</b>	
<b>EPA 6020 by Inductively Coupled Plasma Mass Spectrometry (ICP/MS)</b>	10156204
<b>Solid</b>	
Thallium	1165
Vanadium	1185
Zinc	1190
<b>EPA 7196A by Ultraviolet-Visible (UV/VIS) Spectrophotometry</b>	10162400
<b>Aqueous</b>	
Hexavalent Chromium (Cr VI)	1045
<b>EPA 7199 by Ion Chromatography (IC)</b>	10163005
<b>Aqueous</b>	
Hexavalent Chromium (Cr VI)	1045
<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 7471A by Cold Vapor Atomic Absorption Spectrophotometry (CVAAS)</b>	10166208
<b>Solid</b>	
Mercury	1095
<b>Organic</b>	
<b>AK-101 (GRO) by Gas Chromatography Flame Ionization Detection (GC/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 Flame Ionization Detection (GC/FID)</b>	90015400
<b>Solid</b>	
Residual Range Organics (RRO)	9369
<b>EPA 524.2 by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10088809
<b>Drinking Water</b>	
1,1,1,2-Tetrachloroethane	5105
1,1,1-Trichloroethane	5160
1,1,2,2-Tetrachloroethane	5110



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### Organic

#### EPA 524.2 by Gas Chromatography Mass Spectrometry (GC/MS)

10088809

#### Drinking Water

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-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

2,2-Dichloropropane

4665

2-Chlorotoluene

4535

4-Chlorotoluene (p-Chlorotoluene)

4540

4-Isopropyltoluene (p-Isopropyltoluene, p-Cymene)

4910

Benzene

4375

Bromobenzene

4385

Bromochloromethane

4390

Bromodichloromethane

4395

Bromoform

4400

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

Hexachlorobutadiene

4835



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<b>Organic</b>	
<b>EPA 524.2 by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10088809
<b>Drinking Water</b>	
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-Butylbenzene	4445
Tetrachloroethene	5115
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
<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



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### Organic

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

#### Aqueous

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) 7120

gamma-Chlordane 7245

Heptachlor 7685

Heptachlor Epoxide 7690

Methoxychlor 7810

Toxaphene (Chlorinated Camphene) 8250

**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-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



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### Organic

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

10298121

#### Aqueous

1,4-Dichlorobenzene	4620
2,2-Dichloropropane	4665
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
Acrylonitrile	4340
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
Di-Isopropylether (DIPE)	9375
Ethylbenzene	4765
Hexachlorobutadiene	4835
Hexachloroethane	4840
Isopropylbenzene (Cumene)	4900
m,p-Xylene	5240
Methyl Bromide (Bromomethane)	4950
Methyl Chloride (Chloromethane)	4960
Methyl tert Butyl Ether (MTBE)	5000



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### Organic

<b>EPA 624.1 by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10298121
<b>Aqueous</b>	
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	5115
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>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-Chloronaphthalene	5790
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-Dichlorophenol	6005
2,6-Dinitrotoluene (2,6-DNT)	6190
2-Chloronaphthalene	5795
2-Chlorophenol	5800





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### Organic

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

10300024

#### Aqueous

2-Methyl-4,6-Dinitrophenol (4,6-Dinitro-2-Methylphenol)

6360

2-Methylnaphthalene

6385

2-Methylphenol (o-Cresol)

6400

2-Nitroaniline

6460

2-Nitrophenol

6490

3,3'-Dichlorobenzidine

5945

3-Nitroaniline

6465

4-Bromophenyl Phenyl Ether (BDE-3)

5660

4-Chloro-3-Methylphenol

5700

4-Chloroaniline

5745

4-Chlorophenyl Phenylether

5825

4-Methylphenol (p-Cresol, as 3+4-Methylphenol)

6410

4-Nitroaniline

6470

4-Nitrophenol

6500

Acenaphthene

5500

Acenaphthylene

5505

Aniline

5545

Anthracene

5555

Benzidine

5595

Benzo(a)Anthracene

5575

Benzo(a)Pyrene

5580

Benzo(b)Fluoranthene

5585

Benzo(g,h,i)Perylene

5590

Benzo(k)Fluoranthene

5600

Benzyl Alcohol

5630

bis(2-Chloroethoxy)Methane

5760

bis(2-Chloroethyl)Ether

5765

bis(2-Ethylhexyl)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





# Certificate of Accreditation: Supplement

## Pace Analytical Services, LLC dba BC Laboratories, Inc.

4100 Atlas Court, Bakersfield, CA 93308

Contact Name: Sara Guron Phone: 661-327-4911

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Code

### Organic

<b>EPA 625.1 by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10300024
<b>Aqueous</b>	
di-n-Octyl Phthalate	6200
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
<b>EPA 8015B by Gas Chromatography Flame Ionization Detection (GC/FID)</b>	10173601
<b>Aqueous</b>	
Oil Range Organics (ORO) Luft Range	6748
Total Petroleum Hydrocarbons Diesel Range Organics (TPH DRO, C12 - C24)	9369
TPH - Diesel (C10 - C34)	NC
<b>Solid</b>	
Oil Range Organics (ORO) Luft Range	6748
Total Petroleum Hydrocarbons Diesel Range Organics (TPH DRO, C12 - C24)	9369
TPH - Diesel (C10 - C34)	NC
<b>EPA 8015B by Gas Chromatography Photoionization and Flame Ionization Detection (GC/PID/FID)</b>	10173601
<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>EPA 8021B by Gas Chromatography Photoionization and Flame Ionization Detection (GC/PID/FID)</b>	10174819
<b>Aqueous</b>	
Benzene	4375



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### Organic

**EPA 8021B by Gas Chromatography Photoionization and Flame Ionization Detection (GC/PID/FID)** 10174819

#### Aqueous

Ethylbenzene 4765

Methyl tert Butyl Ether (MTBE) 5000

Toluene 5140

Xylenes (Total) 5260

#### Solid

Benzene 4375

Ethylbenzene 4765

Methyl tert Butyl Ether (MTBE) 5000

Toluene 5140

Xylenes (Total) 5260

**EPA 8081A by Gas Chromatography Electron Capture Detector (GC/ECD)** 10178606

#### 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) 7120

gamma-Chlordane 7245

Heptachlor 7685

Heptachlor Epoxide 7690

Methoxychlor 7810

Toxaphene (Chlorinated Camphene) 8250

#### Solid

4,4'-DDD 7355



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### Organic

**EPA 8081A by Gas Chromatography Electron Capture Detector (GC/ECD)** 10178606

**Solid**

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) 7120

gamma-Chlordane 7245

Heptachlor 7685

Heptachlor Epoxide 7690

Methoxychlor 7810

Toxaphene (Chlorinated Camphene) 8250

**EPA 8082A by Gas Chromatography Electron Capture Detector (GC/ECD)** 10179007

**Aqueous**

Aroclor 1016 8880

Aroclor 1221 8885

Aroclor 1232 8890

Aroclor 1242 8895

Aroclor 1248 8900

Aroclor 1254 8905

Aroclor 1260 8910

**Solid**

Aroclor 1016 8880

Aroclor 1221 8885

Aroclor 1232 8890

Aroclor 1242 8895

Aroclor 1248 8900



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### Organic

**EPA 8082A by Gas Chromatography Electron Capture Detector (GC/ECD)** 10179007

#### Solid

Aroclor 1254 8905

Aroclor 1260 8910

**EPA 8141A by Gas Chromatography Nitrogen Phosphorous Detector (GC/NPD)** 10182000

#### Aqueous

Azinphos Methyl (Guthion) 7075

Chlorpyrifos (Dursban) 7300

Demeton (o+s, Total) 7390

Diazinon 7410

Dichlorvos (DDVP) 8610

Dimethoate 7475

Disulfoton 8625

Ethion 7565

Ethoprop (Ethoprophos) 7570

Ethyl Parathion 7955

Malathion 7770

Methyl Parathion 7825

Phorate 7985

Ronnel (Fenchlorphos) 8110

#### Solid

Azinphos Methyl (Guthion) 7075

Chlorpyrifos (Dursban) 7300

Demeton (o+s, Total) 7390

Diazinon 7410

Dichlorvos (DDVP) 8610

Dimethoate 7475

Disulfoton 8625

Ethion 7565

Ethoprop (Ethoprophos) 7570

Ethyl Parathion 7955

Malathion 7770

Methyl Parathion 7825

Phorate 7985

Ronnel (Fenchlorphos) 8110

**EPA 8151A by Gas Chromatography Electron Capture Detector (GC/ECD)** 10183207

#### Aqueous

2,4,5-T 8655



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Code

### Organic

**EPA 8151A by Gas Chromatography Electron Capture Detector (GC/ECD)** 10183207

#### Aqueous

2,4,5-TP (Silvex) 8650

2,4-DB 8560

2,4-Dichlorophenoxyacetic Acid (2,4-D) 8545

Dalapon 8555

Dicamba 8595

Dichloroprop (2,4-DP) 8605

Dinoseb (2-sec-Butyl-4,6-Dinitrophenol, DNBP) 8620

Pentachlorophenol (PCP) 6605

#### Solid

2,4,5-T 8655

2,4,5-TP (Silvex) 8650

2,4-DB 8560

2,4-Dichlorophenoxyacetic Acid (2,4-D) 8545

Dalapon 8555

Dicamba 8595

Dichloroprop (2,4-DP) 8605

Dinoseb (2-sec-Butyl-4,6-Dinitrophenol, DNBP) 8620

Pentachlorophenol (PCP) 6605

**EPA 8260B (BCORG045) by Gas Chromatography Mass Spectrometry (GC/MS)** 10184802

#### Aqueous

Total Petroleum Hydrocarbons Gasoline Range Organics (TPH GRO) 9408

#### Solid

Total Petroleum Hydrocarbons Gasoline Range Organics (TPH GRO) 9408

**EPA 8260B by Gas Chromatography Mass Spectrometry (GC/MS)** 10184802

#### 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



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Code

### Organic

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

10184802

#### Aqueous

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-Dichloroethene (Total, cis & trans)	4705
1,2-Dichloropropane	4655
1,3,5-Trimethylbenzene	5215
1,3-Dichlorobenzene (1,3-DCB)	4615
1,3-Dichloropropane	4660
1,3-Dichloropropene (Total)	4675
1,4-Dichlorobenzene	4620
1,4-Dioxane (1,4-Diethyleneoxide, p-Dioxane)	4735
2,2-Dichloropropane	4665
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
Acrylonitrile	4340
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





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### Organic

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

10184802

#### Aqueous

cis-1,3-Dichloropropene	4680
Dibromomethane (Methylene Bromide)	4595
Dichlorodifluoromethane (Freon 12)	4625
Di-Isopropylether (DIPE)	9375
Ethyl tert-Butyl Ether (ETBE, 2-Ethoxy-2-Methylpropane)	4770
Ethylbenzene	4765
Hexachlorobutadiene	4835
Hexachloroethane	4840
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	5115
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

#### Solid

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





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### Organic

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

10184802

#### Solid

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-Dichloroethene (Total, cis & trans)	4705
1,2-Dichloropropane	4655
1,3,5-Trimethylbenzene	5215
1,3-Dichlorobenzene (1,3-DCB)	4615
1,3-Dichloropropane	4660
1,3-Dichloropropene (Total)	4675
1,4-Dichlorobenzene	4620
1,4-Dioxane (1,4-Diethyleneoxide, p-Dioxane)	4735
2,2-Dichloropropane	4665
2-Butanone (Methyl Ethyl Ketone, MEK)	4410
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
Acrylonitrile	4340
Benzene	4375
Bromobenzene	4385
Bromochloromethane	4390
Bromodichloromethane	4395
Bromoform	4400
Carbon Disulfide	4450



# Certificate of Accreditation: Supplement

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### Organic

**EPA 8260B by Gas Chromatography Mass Spectrometry (GC/MS)** 10184802

#### Solid

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

Di-Isopropylether (DIPE) 9375

Ethyl tert-Butyl Ether (ETBE, 2-Ethoxy-2-Methylpropane) 4770

Ethylbenzene 4765

Hexachlorobutadiene 4835

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 5115

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



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Code

### Organic

**EPA 8260C (BCORG045) by Gas Chromatography Mass Spectrometry (GC/MS)** 10307003

#### Aqueous

Total Petroleum Hydrocarbons Gasoline Range Organics (TPH GRO) 9408

#### Solid

Total Petroleum Hydrocarbons Gasoline Range Organics (TPH GRO) 9408

**EPA 8260C by Gas Chromatography Mass Spectrometry (GC/MS)** 10307003

#### 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-Dichloroethene (Total, cis & trans) 4705

1,2-Dichloropropane 4655

1,3,5-Trimethylbenzene 5215

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

1,3-Dichloropropane 4660

1,3-Dichloropropene (Total) 4675

1,4-Dichlorobenzene 4620

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

2,2-Dichloropropane 4665

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



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Code

### Organic

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

10307003

#### Aqueous

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

4995

Acetone

4315

Acrolein (Propenal)

4325

Acrylonitrile

4340

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

Di-Isopropylether (DIPE, Propane)

9375

Ethyl tert-Butyl Ether (ETBE, 2-Ethoxy-2-Methylpropane)

4770

Ethylbenzene

4765

Hexachlorobutadiene

4835

Hexachloroethane

4840

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



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Code

### Organic

**EPA 8260C by Gas Chromatography Mass Spectrometry (GC/MS)** 10307003

#### Aqueous

tert-Amyl Methyl Ether (TAME) 4370

tert-Butyl Alcohol (TBA, 2-Methyl-2-Propanol, t-Butanol) 4420

tert-Butylbenzene 4445

Tetrachloroethene 5115

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

#### Solid

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-Dichloroethene (Total, cis & trans) 4705

1,2-Dichloropropane 4655

1,3,5-Trimethylbenzene 5215

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

1,3-Dichloropropane 4660

1,3-Dichloropropene (Total) 4675

1,4-Dichlorobenzene 4620

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



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Code

### Organic

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

10307003

#### Solid

2,2-Dichloropropane	4665
2-Butanone (Methyl Ethyl Ketone, MEK)	4410
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
Acrylonitrile	4340
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
Di-Isopropylether (DIPE, Propane)	9375
Ethyl tert-Butyl Ether (ETBE, 2-Ethoxy-2-Methylpropane)	4770
Ethylbenzene	4765
Hexachlorobutadiene	4835
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





# Certificate of Accreditation: Supplement

## Pace Analytical Services, LLC dba BC Laboratories, Inc.

4100 Atlas Court, Bakersfield, CA 93308

Contact Name: Sara Guron Phone: 661-327-4911

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

Code

### Organic

<b>EPA 8260C by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10307003
<b>Solid</b>	
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	5115
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>EPA 8260D (BCORG045) by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10307127
<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>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
1,2,4-Trichlorobenzene	5155
1,2,4-Trimethylbenzene	5210
1,2-Dibromo-3-Chloropropane (DBCP)	4570





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### Organic

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

10307127

#### Aqueous

1,2-Dibromoethane (EDB, Ethylene Dibromide)	4585
1,2-Dichlorobenzene	4610
1,2-Dichloroethane (Ethylene Dichloride, EDC)	4635
1,2-Dichloroethene (Total, cis & trans)	4705
1,2-Dichloropropane	4655
1,3,5-Trimethylbenzene	5215
1,3-Dichlorobenzene (1,3-DCB)	4615
1,3-Dichloropropane	4660
1,3-Dichloropropene (Total)	4675
1,4-Dichlorobenzene	4620
1,4-Dioxane (1,4-Diethyleneoxide, p-Dioxane)	4735
2,2-Dichloropropane	4665
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
Acrylonitrile	4340
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



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### Organic

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

10307127

#### Aqueous

Dichlorodifluoromethane (Freon 12)	4625
Di-Isopropylether (DIPE, Propane)	9375
Ethyl tert-Butyl Ether (ETBE, 2-Ethoxy-2-Methylpropane)	4770
Ethylbenzene	4765
Hexachlorobutadiene	4835
Hexachloroethane	4840
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	5115
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

#### Solid

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



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### Organic

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

10307127

#### Solid

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-Dichloroethene (Total, cis & trans)	4705
1,2-Dichloropropane	4655
1,3,5-Trimethylbenzene	5215
1,3-Dichlorobenzene (1,3-DCB)	4615
1,3-Dichloropropane	4660
1,3-Dichloropropene (Total)	4675
1,4-Dichlorobenzene	4620
1,4-Dioxane (1,4-Diethyleneoxide, p-Dioxane)	4735
2,2-Dichloropropane	4665
2-Butanone (Methyl Ethyl Ketone, MEK)	4410
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
Acrylonitrile	4340
Benzene	4375
Bromobenzene	4385
Bromochloromethane	4390
Bromodichloromethane	4395
Bromoform	4400
Carbon Disulfide	4450
Carbon Tetrachloride	4455
Chlorobenzene	4475



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### Organic

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

10307127

#### Solid

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
Di-Isopropylether (DIPE, Propane)	9375
Ethyl tert-Butyl Ether (ETBE, 2-Ethoxy-2-Methylpropane)	4770
Ethylbenzene	4765
Hexachlorobutadiene	4835
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	5115
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



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4100 Atlas Court, Bakersfield, CA 93308

Contact Name: Sara Guron Phone: 661-327-4911

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

Code

### Organic

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

10185805

#### Aqueous

1,2,4-Trichlorobenzene	5155
1,2-Dichlorobenzene	4610
1,3-Dichlorobenzene (1,3-DCB)	4615
1,4-Dichlorobenzene	4620
1,4-Dioxane (1,4-Diethyleneoxide, p-Dioxane)	4735
1-Chloronaphthalene	5790
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-Dichlorophenol	6005
2,6-Dinitrotoluene (2,6-DNT)	6190
2-Chloronaphthalene	5795
2-Chlorophenol	5800
2-Methyl-4,6-Dinitrophenol (4,6-Dinitro-2-Methylphenol)	6360
2-Methylnaphthalene	6385
2-Methylphenol (o-Cresol)	6400
2-Nitroaniline	6460
2-Nitrophenol	6490
3,3'-Dichlorobenzidine	5945
3-Nitroaniline	6465
4-Bromophenyl Phenyl Ether (BDE-3)	5660
4-Chloro-3-Methylphenol	5700
4-Chloroaniline	5745
4-Chlorophenyl Phenylether	5825
4-Methylphenol (p-Cresol, as 3+4-Methylphenol)	6410
4-Nitroaniline	6470
4-Nitrophenol	6500
Acenaphthene	5500
Acenaphthylene	5505
Aniline	5545
Anthracene	5555
Benzidine	5595



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Code

### Organic

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

10185805

#### Aqueous

Benzo(a)Anthracene

5575

Benzo(a)Pyrene

5580

Benzo(b)Fluoranthene

5585

Benzo(g,h,i)Perylene

5590

Benzo(k)Fluoranthene

5600

Benzyl Alcohol

5630

bis(2-Chloroethoxy)Methane

5760

bis(2-Chloroethyl)Ether

5765

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

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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Code

### Organic

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

10185805

#### Solid

1,2,4-Trichlorobenzene	5155
1,2-Dichlorobenzene	4610
1,3-Dichlorobenzene (1,3-DCB)	4615
1,4-Dichlorobenzene	4620
1,4-Dioxane (1,4-Diethyleneoxide, p-Dioxane)	4735
1-Chloronaphthalene	5790
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-Dichlorophenol	6005
2,6-Dinitrotoluene (2,6-DNT)	6190
2-Chloronaphthalene	5795
2-Chlorophenol	5800
2-Methyl-4,6-Dinitrophenol (4,6-Dinitro-2-Methylphenol)	6360
2-Methylnaphthalene	6385
2-Methylphenol (o-Cresol)	6400
2-Nitroaniline	6460
2-Nitrophenol	6490
3,3'-Dichlorobenzidine	5945
3-Nitroaniline	6465
4-Bromophenyl Phenyl Ether (BDE-3)	5660
4-Chloro-3-Methylphenol	5700
4-Chloroaniline	5745
4-Chlorophenyl Phenylether	5825
4-Methylphenol (p-Cresol, as 3+4-Methylphenol)	6410
4-Nitroaniline	6470
4-Nitrophenol	6500
Acenaphthene	5500
Acenaphthylene	5505
Aniline	5545
Anthracene	5555
Benzidine	5595





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### Organic

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

10185805

#### Solid

Benzo(a)Anthracene	5575
Benzo(a)Pyrene	5580
Benzo(b)Fluoranthene	5585
Benzo(g,h,i)Perylene	5590
Benzo(k)Fluoranthene	5600
Benzyl Alcohol	5630
bis(2-Chloroethoxy)Methane	5760
bis(2-Chloroethyl)Ether	5765
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
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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### Organic

**EPA 8270C SIM by Gas Chromatography Mass Spectrometry (GC/MS) Selective Ion Monitoring (SIM)** 10242407

#### Aqueous

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
Chrysene	5855
Dibenzo(a,h)anthracene	5895
Fluoranthene	6265
Fluorene	6270
Indeno(1,2,3-cd)pyrene	6315
Naphthalene	5005
Phenanthrene	6615
Pyrene	6665

#### Solid

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
Chrysene	5855
Dibenzo(a,h)anthracene	5895
Fluoranthene	6265
Fluorene	6270
Indeno(1,2,3-cd)pyrene	6315
Naphthalene	5005
Phenanthrene	6615
Pyrene	6665



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### Organic

**EPA 8330A by High Performance Liquid Chromatography - Ultraviolet (HPLC-UV)** 10189807

#### Aqueous

1,3,5-Trinitrobenzene (1,3,5-TNB)	6885
1,3-Dinitrobenzene (1,3-DNB)	6160
2,4,6-Trinitrotoluene (2,4,6-TNT)	9651
2,4-Dinitrotoluene (2,4-DNT)	6185
2,6-Dinitrotoluene (2,6-DNT)	6190
2-Amino-4,6-Dinitrotoluene (2-Am-DNT)	9303
2-Nitrotoluene (2-NT)	9507
3-Nitrotoluene (3-NT)	9510
4-Amino-2,6-Dinitrotoluene (4-Am-DNT)	9306
4-Nitrotoluene (4-NT)	9513
HMX (Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine)	9522
Nitrobenzene	5015
RDX (Hexahydro-1,3,5-Trinitro-1,3,5-Triazine)	9432
Tetryl (Methyl-2,4,6-Trinitrophenylnitramine)	6415

#### Solid

1,3,5-Trinitrobenzene (1,3,5-TNB)	6885
1,3-Dinitrobenzene (1,3-DNB)	6160
2,4,6-Trinitrotoluene (2,4,6-TNT)	9651
2,4-Dinitrotoluene (2,4-DNT)	6185
2,6-Dinitrotoluene (2,6-DNT)	6190
2-Amino-4,6-Dinitrotoluene (2-Am-DNT)	9303
2-Nitrotoluene (2-NT)	9507
3-Nitrotoluene (3-NT)	9510
4-Amino-2,6-Dinitrotoluene (4-Am-DNT)	9306
4-Nitrotoluene (4-NT)	9513
HMX (Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine)	9522
Nitrobenzene	5015
RDX (Hexahydro-1,3,5-Trinitro-1,3,5-Triazine)	9432
Tetryl (Methyl-2,4,6-Trinitrophenylnitramine)	6415

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

#### Air

1,1,1,2-Tetrachloroethane	5105
1,1,1,2-Tetrafluoroethane	5107
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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### Organic

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

10248803

#### Air

1,1,2-Trichloroethane	5165
1,1-Dichloroethane	4630
1,1-Dichloroethylene	4640
1,1-Difluoroethane	4633
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-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
1,4-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
Acrylonitrile	4340
Allyl Chloride (3-Chloropropene)	4355
Benzene	4375
Benzyl Chloride	5635
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



# Certificate of Accreditation: Supplement

## Pace Analytical Services, LLC dba BC Laboratories, Inc.

4100 Atlas Court, Bakersfield, CA 93308

Contact Name: Sara Guron Phone: 661-327-4911

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

Code

### Organic

<b>EPA TO-15 by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10248803
<b>Air</b>	
Cyclohexane	4555
Dibromomethane (Methylene Bromide)	4595
Dichlorodifluoromethane (Freon 12)	4625
Di-Isopropylether (DIPE, Propane)	9375
Ethanol	4750
Ethyl Acetate	4755
Ethyl tert-Butyl Ether (ETBE, 2-Ethoxy-2-Methylpropane)	4770
Ethylbenzene	4765
Hexachlorobutadiene	4835
Hexachloroethane	4840
Iodomethane (Methyl iodide)	4870
Isooctane	3852
Isopropyl Alcohol (IPA, 2-Propanol, Isopropanol)	4895
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-Heptane	4825
n-Hexane	4855
o-Xylene (1,2-Xylene)	5250
Propylene	NC
Styrene	5100
tert-Amyl Methyl Ether (TAME)	4370
tert-Butyl Alcohol (TBA, 2-Methyl-2-Propanol, t-Butanol)	4420
Tetrachloroethene	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 Bromide (Bromoethane)	5230
Vinyl Chloride (Chloroethene)	5235



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### Organic

<b>EPA TO-15 by Gas Chromatography Mass Spectrometry (GC/MS)</b>	10248803
<b>Air</b>	
Xylenes (Total)	5260
<b>EPA TO-15 SIM by Gas Chromatography Mass Spectrometry (GC/MS) Selective Ion Monitoring (SIM)</b>	10248858
<b>Air</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-Difluoroethane	4633
1,2-Dibromoethane (EDB, Ethylene Dibromide)	4585
1,2-Dichlorobenzene	4610
1,2-Dichloroethane (Ethylene Dichloride, EDC)	4635
1,3-Dichlorobenzene	4615
1,4-Dichlorobenzene	4620
Benzene	4375
Carbon Tetrachloride	4455
Chlorobenzene	4475
Chloroethane (Ethyl Chloride)	4485
Chloroform	4505
cis-1,2-Dichloroethylene	4645
Dichlorodifluoromethane (Freon 12)	4625
Ethylbenzene	4765
m,p-Xylene	5240
o-Xylene (1,2-Xylene)	5250
Tetrachloroethene	5115
Toluene	5140
trans-1,2-Dichloroethylene	4700
trans-1,3-Dichloropropylene	4685
Trichloroethene (TCE, Trichloroethylene)	5170
Trichlorofluoromethane (Fluorotrchloromethane, Freon 11)	5175
Vinyl Chloride (Chloroethene)	5235
Xylenes (Total)	5260





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Code

### Organic

**RSK 175 by Gas Chromatography Flame Ionization Detection (GC/FID)** 10212905

#### Aqueous

Ethane 4747

Ethene 4752

Methane 4926

**SRL 524M-TCP by Gas Chromatography Mass Spectrometry (GC/MS)** 90018534

#### Aqueous

1,2,3-Trichloropropane (TCP) 5180

**Timberline Ammonia-001 by Timberline** 60034302

#### Aqueous

Ammonia 1515

#### Solid

Ammonia 1515

### Preparation

#### Aqueous

EPA 3005A Acid Digestion of Waters for Total Recoverable or Dissolved Metals

EPA 3010A Acid Digestion for Total Metals (Hot Block)

EPA 3510C Separatory Funnel Liquid-Liquid Extraction

EPA 9010 Cyanide (Total and Amenable) Distillation

#### Solid

EPA 1311 Toxicity Characteristic Leaching Procedure (TCLP), Soluble Threshold Limit Concentration (STLC), Zero-Headspace Extraction Vessel (ZHE)

EPA 3050B Acid Digestion for Metals

EPA 3550B Ultrasonic Extraction

EPA 3580A Waste Dilution Extraction for Extractable Organics

EPA 5035A Purge-and-Trap and Extraction For Volatile Organics (Closed-System)

EPA 9010 Cyanide (Total and Amenable) Distillation

### 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)